

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Why was this document developed?

This document was developed for contractors participating in the Performance Tested Comfort Systems, or PTCS program, and provides an alternative to using a True Flow Plate to determine airflow.

What is the purpose of this document?

This document consolidates information about airflow settings for the most commonly installed air handlers. Excerpts from the manufacturers' manuals are provided [below](#), each with information on setting and identifying airflow.

How do you use this document?

Use the manuals and external static pressure, or ESP, measurements to set the airflow to meet the PTCS specification of 325 – 500 CFM/ton. Manufacturer fan tables can be used on their own to identify the airflow settings needed for PTCS heat pump projects. [Page 2](#) and [3](#) explain the process for estimating airflow using static pressure measurements and flow tables. If your air handler is not included in this document, use the installation manual for your product to identify airflow or use flow plates.

If you have any questions, please contact PTCS at ResHVAC@bpa.gov or 1.800.941.3867

Estimating Airflow Using Static Pressure Measurements & Flow Tables

Using Static Pressure to Measure Airflow

- Static pressure measurements can be used with manufacturer fan tables to estimate airflow. Proper airflow and fan settings can ensure comfort and energy efficiency, and may extend the life of the heat pump.
- Use of a flow plate is the preferred method to determine airflow; however, the external static pressure-airflow lookup table approach is also approved by PTCS.

Proper Pressure Tap Placement

- Most manufacturer fan tables note testing return static pressure between the filter and air handler, and supply static pressure in the supply plenum with enough distance to avoid turbulence.
- PTCS requires the return static pressure to be measured downstream from the coil when reporting external static pressure. If the manufacturer specifies drilling upstream of the filter and notes a pressure drop for the filter, be careful as this drop is often lower than the filter you're using. Contact your filter manufacturer for applicable pressure-drop data.
- A static pressure probe is required for external static pressure measurements. Taking pressure measurements without a static pressure probe will give non-valid results.

Identifying Airflow

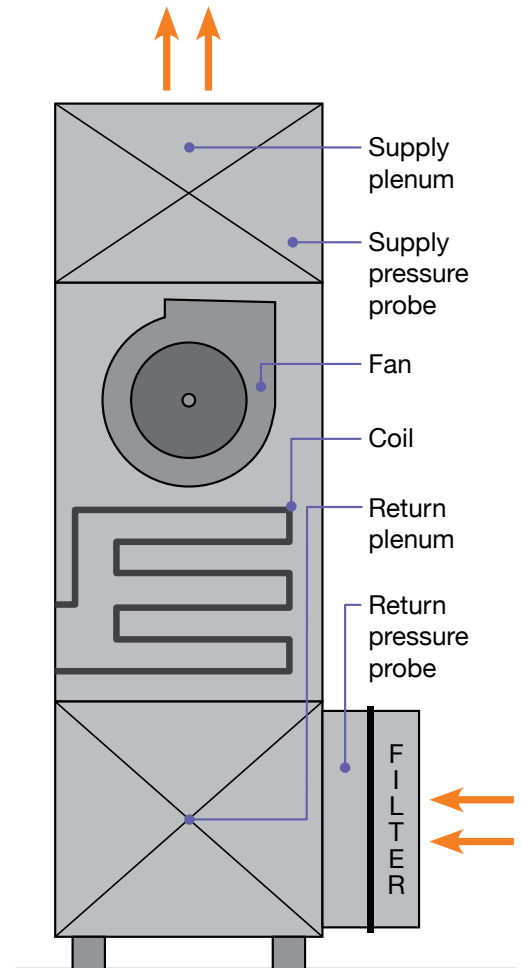
- Using the information in the table below, if you have a blower motor speed at medium and an external static pressure of 0.40, the total airflow is 1175 CFM. If you have a 3-ton heat pump attached to the air handler, this would be close to the optimal airflow of 400 CFM/ton (1175 CFM/3 tons = 392 CFM/ton).

Additional Tips

- If your readings seem higher or lower than expected, take static pressure measurements at another location or on another side of the plenum, ensure your probe is past any duct liner or use a longer static pressure probe.
- Many systems are rated with a dry coil. If you are taking static pressure measurements with a wet coil, your airflow may be lower than shown in the fan table.
- PTCS allows external static pressures up to 0.8 inches of water column or 200 pascals. Most manufacturers suggest 0.5 inches of water column (125 pascals) or less.

Example of a Manufacturer-Provided External Static Pressure-Airflow Lookup Table (showing total CFM at intersection)

Blower Motor Speed Setting	External Static Pressure (Inches of Water Column)						
	0.10	0.20	0.30	0.40	0.50	0.60	0.70
High	1606	1566	1524	1480	1450	1412	1376
Medium-high	1511	1467	1430	1387	1353	1309	1274
Medium	1300	1250	1210	1175	1134	1078	1009
Medium-low	1104	1060	1029	987	912	841	784
Low	913	886	832	765	694	569	530



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ResHVAC@bpa.gov or 1.800.941.3867



Steps to Measure Airflow Using External Static Pressure Measurements

Fig. 1

Drill hole at appropriate location and measure return static pressure with static pressure probe pointing into the airflow. Avoid drilling into cabinet.



Fig. 2

Drill hole at appropriate location and measure supply static pressure with static pressure probe pointing into the airflow.



1. Measure return static pressure (downstream from the filter, 0.28 inches of water column in this example). (See Fig. 1)
2. Measure supply plenum static pressure (0.34 inches of water column in this example). (See Fig. 2)
3. Calculate external static pressure (return static pressure + supply static pressure; $0.28 + 0.34 = 0.62$ inches of water column in this example).
4. Round the external static pressure to the nearest pressure in the manufacturer's table (0.62 rounds to 0.60 in this example).
5. Find where the external static pressure and blower speed settings intersect on the manufacturer's airflow table, 1078 CFM (shown on the table).
6. Confirm the CFM/ton meets PTCS specification of 325–500 CFM/ton or manufacturer specified airflow requirements. Example: This is an airflow of 359 CFM/ton if this is a 3-ton heat pump, meeting PTCS specifications.
7. If the airflow does not meet PTCS specifications or manufacturer specified airflow requirements, change the speed setting and restart the process at step 1.

Blower Motor Speed Setting	External Static Pressure (Inches of Water Column)						
	0.10	0.20	0.30	0.40	0.50	0.60	0.70
High	1606	1566	1524	1480	1450	1412	1376
Medium-high	1511	1467	1430	1387	1353	1309	1274
Medium	1300	1250	1210	1175	1134	1078	1009
Medium-low	1104	1060	1029	987	912	841	784
Low	913	886	832	765	694	569	530

Contact PTCS at
ResHVAC@bpa.gov or 1.800.941.3867



Click on a link below to take you to the relevant airflow information...

Amana

[AVPTC](#)

[AVPEC](#)

American Standard

[GAM5B](#)

[TAM9A](#)

[TEM6A](#)

[TEM8A](#)

Bryant

[40MBAA](#)

[CNPV](#)

[FB4CNF-P](#)

[FE4A](#)

[FV4C](#)

[FX4D](#)

Carrier

[40MBAA](#)

[CNPV](#)

[FB4CNF-P](#)

[FE4A](#)

[FV4C](#)

[FX4D](#)

Coleman

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[AVV Series](#)

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Lennox

[CBA25UH](#)

[CBA25UHE](#)

[CBA38MV](#)

[CBX40UHV](#)

Mitsubishi

[PVA](#)

[SVZ-KP 12, 18](#)

[SVZ-KP 12, 36, 24, 30, 36](#)

Payne

[40MBAA](#)

[FB4CNF-P](#)

[FE4A](#)

[FV4C](#)

[PF4MNB](#)

[PF4MNP](#)

Rheem

[RH1T](#)

[RH2T](#)

Trane

[GAM5B](#)

[TAM9A](#)

[TEM4A](#)

[TEM6A](#)

[TEM8A](#)

York

[AE Series](#)

[AP Series](#)

[AVC Series](#)

[ME Series](#)

[MVC Series](#)

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Amana

Model: AVPTC

AVPTC25B14B*, AVPTC33C14B*		
Tons	High Stage CFM	Default Low Stage CFM
1.5	600	402
2	800	536

AVPTC39C14B*		
Tons	High Stage CFM	Default Low Stage CFM
2.5	1,000	670
3	1,200	804

AVPTC29B14B*		
Tons	High Stage CFM	Default Low Stage CFM
1.5	600	402
2	800	536
2.5	1,000	670

AVPTC49C14B*, AVPTC49D14B*, AVPTC59C14B*		
Tons	High Stage CFM	Default Low Stage CFM
3	1200	804
3.5	1,400	938
4	1,600	1,072

AVPTC31C14B*, AVPTC35B14B* AVPTC37B14B*, AVPTC37C14B*		
Tons	High Stage CFM	Default Low Stage CFM
2	800	536
2.5	1,000	670
3	1,200	804

AVPTC59D14B*		
Tons	High Stage CFM	Default Low Stage CFM
3.5	1,400	938
4	1,600	1,072
4.5	1,800	1,206
5	2,000	1,340

AVPTC37D14B*		
Tons	High Stage CFM	Default Low Stage CFM
3	1,200	804

AVPTC61D14B*		
Tons	High Stage CFM	Default Low Stage CFM
4	1,600	1,072
4.5	1,800	1,206
5	2,000	1,340

Notes:

1. For installations with a communicating outdoor unit, airflow is set automatically by the condenser or heat pump. No indoor airflow setting is needed for the install.
2. For installations with a non-communicating outdoor unit, target airflows are listed in the tables above.
3. Recommended external static pressures are 0.1- 0.5 in. wc (0.6 in. wc and above not recommended).
4. Listed airflow values are targets only. Actual airflow may deviate from targets due to variations in individual installations and may be adjusted using trim values in the CoolCloud app or onboard push button menus
5. For most installations, 400 SCFM per ton is desirable.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Amana

Model: AVPEC

MODEL	STAGE	AIRFLOW CFM								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
AVPEC25B14A*	High	700	690	690	685	680	670	665	660	655
	Low	520	505	495	490	470	455	445	435	425
AVPEC37C14A*	High	1190	1170	1165	1160	1145	1130	1120	1105	1100
	Low	820	810	795	785	765	740	730	720	710
AVPEC59D14A*	High	1445	1440	1430	1415	1405	1390	1380	1375	1370
	Low	880	875	870	870	860	845	840	835	830
AVPEC61D14A*	High	1645	1640	1640	1635	1630	1625	1620	1620	1615
	Low	1080	1075	1070	1070	1060	1055	1050	1050	1045

Note: During cooling operation outdoor will determine the indoor airflow

COOLING/HEAT PUMP AIRFLOW TABLE

MODEL	AIRFLOW LEVEL	CFM
AVPEC25B14A*	High	690
	Low	495
AVPEC37C14A*	High	1165
	Low	795
AVPEC59D14A*	High	1430
	Low	870
AVPEC61D14A*	High	1640
	Low	1070

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: American Standard

Model: GAM5B

GAM5B0A18 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0A18M11SB, GAM5B0A18M11EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1081	977	930	862	556	1078	974	927	858	553
0.1	1044	922	850	806	379	1038	916	844	800	373
0.2	995	880	787	702	202	987	871	778	693	193
0.3	956	830	738	621	-	944	819	727	610	-
0.4	914	788	692	562	-	900	774	677	548	-
0.5	872	749	646	502	-	855	732	629	485	-
0.6	838	707	590	445	-	819	687	570	425	-
0.7	802	650	528	389	-	779	628	505	367	-
0.8	755	598	478	327	-	730	573	453	302	-
0.9	708	539	420	-	-	680	512	392	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is a continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0A18M11SB, GAM5B0A18M11EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without Heat Pump	With Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 3	Tap 4
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 3	Tap 4
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 4
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3 ①	Tap 5 ①
BAYEAAC10LG3AA	Tap 5	Tap 5 ②
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

① Heater not qualified for downflow installations
 ② Approved for 240 V only

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0A24 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0A24M21SB, GAM5B0A24M21EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1081	977	937	928	579	1078	974	933	925	576
0.1	1044	922	868	844	418	1038	916	863	838	412
0.2	995	880	817	777	306	987	871	808	768	298
0.3	956	830	767	729	-	944	819	756	717	-
0.4	914	788	719	682	-	900	774	705	668	-
0.5	872	749	680	635	-	855	732	663	618	-
0.6	838	707	628	577	-	819	687	609	557	-
0.7	802	650	566	515	-	779	628	544	492	-
0.8	755	598	511	467	-	730	573	486	442	-
0.9	708	539	460	407	-	680	512	432	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0A24M21SB, GAM5B0A24M21EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 3	Tap 4
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 3	Tap 4
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 4
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3 ①	Tap 5 ①
BAYEAAC10LG3AA	Tap 5	Tap 5 ②
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

① Heater not qualified for downflow installations
 ② Approved for 240 V only

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0B30 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0B30M21SB, GAM5B0B30M21EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1282	1150	979	856	678	1279	1146	976	853	675
0.1	1238	1094	931	797	482	1232	1088	925	791	476
0.2	1186	1047	863	725	285	1177	1039	854	716	276
0.3	1141	986	803	647	88	1130	975	791	636	77
0.4	1091	935	721	555	-	1076	921	707	540	-
0.5	1033	866	649	461	-	1016	849	632	444	-
0.6	977	799	554	388	-	958	779	534	369	-
0.7	914	732	490	318	-	892	710	468	296	-
0.8	846	646	429	-	-	821	621	404	-	-
0.9	771	587	376	-	-	743	560	348	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0B30M21SB, GAM5B0B30M21EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 2	Tap 3
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 2	Tap 3
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 4
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3	Tap 4
BAYEAAC10LG3AA	Tap 3 ①	Tap 4 ①
BAYEABC15BK1AA	Tap 4	Tap 5
BAYEABC15LG3AA	Tap 4	Tap 5
BAYEABC20BK1AA	-	-
BAYEACC25BK1AA	-	-

① 208 V not approved for upflow installations

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A "G" only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0B36 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0B36M31SB, GAM5B0B36M31EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1438	1387	1197	1013	732	1435	1383	1194	1009	729
0.1	1394	1340	1143	945	552	1388	1334	1137	939	546
0.2	1350	1299	1090	892	413	1341	1291	1082	884	404
0.3	1301	1245	1031	817	305	1289	1233	1019	806	293
0.4	1253	1197	975	751	209	1239	1183	960	737	195
0.5	1205	1151	917	651	-	1188	1134	900	634	-
0.6	1155	1094	837	578	-	1136	1075	817	559	-
0.7	1099	1032	766	499	-	1077	1010	744	476	-
0.8	1039	972	691	453	-	1014	946	666	-	-
0.9	964	889	633	409	-	936	861	605	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0B36M31SB, GAM5B0B36M31EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAC04BK1AA BAYEAC04LG1AA	Tap 2	Tap 3
BAYEAC05BK1AA BAYEAC05LG1AA	Tap 2	Tap 3
BAYEAC08BK1AA BAYEAC08LG1AA	Tap 3	Tap 4
BAYEAC10BK1AA BAYEAC10LG1AA	Tap 4	Tap 5
BAYEAC10LG3AA	Tap 4	Tap 5
BAYEABC15BK1AA	Tap 4	Tap 5
BAYEABC15LG3AA	Tap 4	Tap 5
BAYEABC20BK1AA	-	-
BAYEACC25BK1AA	-	-

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0C42 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0C42M31SB, GAM5B0C42M31EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1644	1575	1401	1266	752	1641	1572	1398	1263	749
0.1	1596	1525	1346	1215	665	1590	1519	1340	1209	659
0.2	1550	1480	1300	1157	569	1542	1471	1291	1148	560
0.3	1509	1437	1252	1110	492	1497	1425	1241	1099	480
0.4	1463	1391	1205	1058	384	1449	1377	1191	1043	370
0.5	1420	1345	1151	980	327	1403	1328	1134	963	310
0.6	1376	1301	1085	917	259	1356	1282	1066	898	239
0.7	1332	1251	1020	865	-	1310	1228	998	842	-
0.8	1271	1179	969	813	-	1246	1154	944	788	-
0.9	1199	1119	924	747	-	1171	1091	897	719	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0C42M31SB, GAM5B0C42M31EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 2	Tap 3
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 2	Tap 3
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 2	Tap 3
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 2	Tap 3
BAYEAAC10LG3AA	Tap 2	Tap 3
BAYEABC15BK1AA	Tap 3	Tap 4
BAYEABC15LG3AA	Tap 3	Tap 4
BAYEABC20BK1AA	-	-
BAYEACC25BK1AA	-	-

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0C48 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0C48M41SB, GAM5B0C48M41EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1913	1770	1694	1593	866	1910	1767	1691	1590	863
0.1	1874	1730	1653	1547	791	1868	1724	1647	1541	785
0.2	1834	1690	1611	1505	699	1825	1681	1602	1496	690
0.3	1791	1646	1567	1456	620	1780	1635	1556	1445	609
0.4	1748	1600	1521	1410	537	1734	1586	1506	1396	522
0.5	1708	1556	1476	1367	453	1691	1539	1459	1350	437
0.6	1668	1516	1436	1326	370	1648	1496	1416	1306	351
0.7	1629	1475	1394	1283	-	1607	1452	1372	1260	-
0.8	1588	1435	1352	1236	-	1563	1410	1327	1211	-
0.9	1541	1390	1304	1183	-	1513	1362	1276	1156	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is a continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

20.2 Adjustments for 2-Stage outdoor HP models

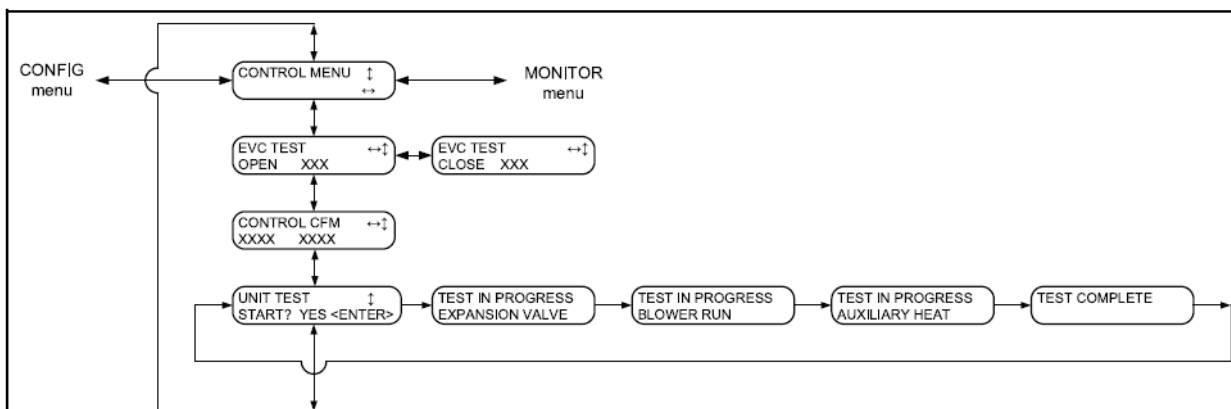
16 SEER Heat Pump Models					
OD MODEL	ID MODEL	SPEED TAP	SYSTEM STAGE	CFM	ESP
4TWR6024A* ^④	GAM5B0A24M21*	4	H	800	0.333
4TWX6024G* ^④		3	L	750	0.293
4A6H6024G* ^④					
4TWR6024A*	GAM5B0B30M21*	3	H	750	0.383
4TWX6024G*		2	L	665	0.301
4A6H6024G*					
4TWR6036A*	GAM5B0B36M31*	4	H	1150	0.500
4TWX6036E*		3	L	1005	0.382
4A6H6036E*					
4TWR6048A*	GAM5B0C42M31*	4	H	1375	0.468
4TWX6048G*		3	L	1235	0.378
4A6H6048G*					
4TWR6048A*	GAM5B0C48M41*	4	H	1575	0.400
4TWX6048G*		2	L	1420	0.325
4A6H6048G*					
4TWR6060A*	GAM5B0C60M51*	3	H	1700	0.390
4TWX6060E*		2	L	1645	0.365
4A6H6060E*					

17/18 SEER Heat Pump Models					
OD MODEL	ID MODEL	SPEED TAP	SYSTEM STAGE	CFM	ESP
4TWR7024A* ④	GAM5B0A24M21*	4	H	800	0.333
4TWX8024A* ④		3	L	750	0.293
4A6H7024A* ④					
4TWR7024A*	GAM5B0B30M21*	3	H	750	0.383
4TWX8024A*		2	L	665	.0301
4A6H7024A*					
4TWR7036A*	GAM5B0B36M31*	4	H	1150	0.500
4TWX8036A*		3	L	1005	0.382
4A6H7036A*					
4TWR7048A*	GAM5B0C48M41*	4	H	1575	0.400
4TWX8048A*		2	L	1420	0.325
4A6H7048A*					
4TWR7060A*	GAM5B0C60M51*	3	H	1700	0.390
4TWX8060A*		2	L	1645	0.365
4A6H7060A*					

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: American Standard

Model: TAM9A



- EVC TEST: Scroll to desired test and push the <Enter> key.
 - o OPEN - When selected, the EEV will drive to the full open position (OPEN 500).
 - o CLOSE - When selected, the EEV will drive to the closed position (CLOSE 056).
- CONTROL CFM: Press <Enter> key to initiate control.
 - o First value is current selection, Second value is actual airflow.
 - o Use left or right menu keys to decrease or increase airflow in 100 CFM increments.
 - o Press ENTER to initiate new CFM demand. Actual airflow is updated every six seconds.
- UNIT TEST: Press <Enter> key to initiate test. (Unit must be in Standby or Idle mode)
 - o Once test is started, the screen update automatically and navigation is not allowed.
 - o UNIT TEST may only be interrupted by a thermostat demand or turning off the power.

NOTE: EVC TEST and/or AUX HEAT TEST will be skipped if the associated control(s) id?are not discovered.

TAM9A0A24 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)				HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE					
			0.1	0.3	0.5	0.7			0.9	0.1	0.3	0.5	0.7	0.9
1.5 tons	290	CFM	407 / 546	430 / 403	398 / NA	347 / NA	255 / NA	290	CFM	416	426	401	330	291
		Watts	22 / 40	51 / 48	77 / NA	103 / NA	133 / NA	CFM/ton	Watts	22	49	76	101	134
	350	CFM	534 / 630	549 / 531	542 / 360	509 / NA	445 / NA	350	CFM	532	550	542	507	434
		Watts	39 / 57	71 / 68	103 / 73	132 / NA	156 / NA	CFM/ton	Watts	37	69	101	129	152
	400	CFM	617 / 697	633 / 617	632 / 501	604 / NA	559 / NA	400	CFM	660	680	679	658	614
	Watts	54 / 72	90 / 86	125 / 96	156 / NA	181 / NA	CFM/ton	Watts	62	99	136	169	197	
	450	CFM	691 / 762	710 / 693	707 / 602	688 / 478	649 / NA	450	CFM	690	710	709	690	651
	Watts	72 / 91	111 / 106	148 / 119	183 / 127	212 / NA	CFM/ton	Watts	69	108	145	180	208	
2 tons †	290	CFM	593 / 680	613 / 595	607 / 470	583 / 208	527 / 132	290	CFM	593	613	608	582	527
		Watts	54 / 68	85 / 81	119 / 90	150 / 94	175 / 138	CFM/ton	Watts	48	82	116	147	172
	350	CFM	717 / 783	733 / 717	733 / 632	714 / 519	678 / 355	350	CFM	714	734	734	716	679
		Watts	79 / 98	118 / 114	157 / 127	192 / 136	222 / 143	CFM/ton	Watts	75	115	153	189	218
	400 †	CFM	810 / 868	827 / 811	827 / 740	813 / 652	782 / 543	400 (a)	CFM	862	881	884	874	849
	Watts	108 / 128	152 / 146	194 / 161	233 / 173	265 / 182	CFM/ton	Watts	122	168	213	254	290	
	450	CFM	903 / 954	918 / 902	920 / 839	909 / 764	884 / 674	450	CFM	899	917	921	912	889
	Watts	144 / 165	192 / 182	238 / 201	280 / 215	316 / 224	CFM/ton	Watts	136	184	231	273	310	
2.5 tons	290	CFM	741 / 820	757 / 759	757 / 681	739 / 582	705 / 452	290	CFM	738	757	758	742	707
		Watts	86 / 110	126 / 127	166 / 141	202 / 152	232 / 159	CFM/ton	Watts	81	122	162	198	229
	350	CFM	880 / 947	896 / 895	896 / 832	885 / 757	859 / 665	350	CFM	876	895	898	888	864
		Watts	134 / 162	182 / 181	226 / 198	267 / 211	302 / 221	CFM/ton	Watts	127	174	220	261	297
	400	CFM	996 / 1059	1011 / 1011	1014 / 954	1006 / 887	985 / 807	400	CFM	1064	1083	1089	1084	1066
	Watts	188 / 220	241 / 240	291 / 257	336 / 271	375 / 280	CFM/ton	Watts	215	272	326	375	418	
	450	CFM	1120 / 1180	1135 / 1134	1137 / 1081	1129 / 1019	1108 / 946	450	CFM	1115	1133	1139	1133	1116
	Watts	260 / 297	319 / 317	373 / 334	422 / 347	463 / 355	CFM/ton	Watts	244	304	360	410	453	
3 tons	290	CFM	875 / 943	891 / 891	892 / 891	880 / 751	854 / 659	290	CFM	871	890	894	883	859
		Watts	132 / 160	179 / 179	224 / 196	265 / 209	300 / 218	CFM/ton	Watts	125	172	217	259	295
	350	CFM	1045 / 1106	1060 / 1059	1063 / 1004	1055 / 939	1035 / 862	350	CFM	1040	1058	1064	1059	1041
		Watts	215 / 248	270 / 268	321 / 285	369 / 299	409 / 308	CFM/ton	Watts	202	257	310	358	401
	400	CFM	1200 / 1257	1212 / 1211	1212 / 1159	1200 / 1099	1129 / 1030	400	CFM	1291	1302	1300	1220	1138
	Watts	315 / 354	376 / 374	432 / 390	480 / 402	481 / 409	CFM/ton	Watts	368	432	487	478	470	
	450	CFM	1358 / 1403	1333 / 1359	1256 / 1308	1177 / 1251	1095 / 1187	450	CFM	1355	1360	1286	1208	1128
	Watts	447 / 484	482 / 502	472 / 517	466 / 527	460 / 531	CFM/ton	Watts	422	483	476	468	462	
<ul style="list-style-type: none"> † Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. 							<ul style="list-style-type: none"> Torque mode will reduce airflow when static is above approximately 0.3" water column. All heating modes default to Constant CFM. Cooling airflow values are with wet coil, no filter 							
TAM9A0A24 Minimum Heating Airflow Settings														
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEABC15LG3	BAYEABC20BK1							
TAM9A0A24	638/713	638/900	675/900	600/713	-	-	-							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS														

TAM9A0B30 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	492 / 581 22 / 30	442 / 397 45 / 41	408 / NA 71 / NA	353 / NA 98 / NA	221 / NA 129 / NA	290 CFM/ton	CFM Watts	485 21	437 44	393 69	349 97	300 130
	350 CFM/ton	CFM Watts	576 / 664 30 / 40	553 / 515 58 / 54	527 / NA 87 / NA	493 / NA 117 / NA	472 / NA 150 / NA	350 CFM/ton	CFM Watts	574 29	545 56	517 85	489 115	457 146
	400 CFM/ton	CFM Watts	644 / 730 38 / 49	633 / 598 70 / 65	612 / 403 102 / 72	590 / NA 134 / NA	563 / NA 167 / NA	400 CFM/ton	CFM Watts	643 37	624 67	605 99	583 132	559 165
	450 CFM/ton	CFM Watts	711 / 794 47 / 60	708 / 673 83 / 77	691 / 510 118 / 86	678 / NA 154 / NA	656 / NA 189 / NA	450 CFM/ton	CFM Watts	709 45	698 80	684 115	669 151	649 186
2 tons †	290 CFM/ton	CFM Watts	627 / 713 36 / 47	611 / 576 66 / 62	589 / 369 98 / 68	568 / NA 130 / NA	542 / NA 163 / NA	290 CFM/ton	CFM Watts	625 35	603 64	582 95	559 127	533 160
	350 CFM/ton	CFM Watts	734 / 815 51 / 64	730 / 698 87 / 82	717 / 541 124 / 91	705 / NA 161 / NA	684 / NA 197 / NA	350 CFM/ton	CFM Watts	731 49	722 84	710 120	696 157	677 193
	400 † CFM/ton	CFM Watts	822 / 898 66 / 81	824 / 792 107 / 101	817 / 657 149 / 112	811 / NA 191 / NA	797 / NA 231 / NA	400 (a) CFM/ton	CFM Watts	817 63	815 103	811 145	801 186	788 226
	450 CFM/ton	CFM Watts	910 / 982 85 / 102	916 / 884 131 / 123	916 / 763 178 / 136	914 / 610 226 / 140	904 / NA 270 / NA	450 CFM/ton	CFM Watts	902 80	907 126	908 172	904 219	895 263
2.5 tons	290 CFM/ton	CFM Watts	755 / 860 54 / 73	753 / 749 92 / 91	742 / 606 130 / 102	732 / 397 168 / 104	712 / NA 205 / NA	290 CFM/ton	CFM Watts	753 52	745 88	735 126	723 164	706 201
	350 CFM/ton	CFM Watts	887 / 985 80 / 102	893 / 887 125 / 124	891 / 767 170 / 137	888 / 614 217 / 141	876 / NA 260 / NA	350 CFM/ton	CFM Watts	881 75	884 120	884 165	879 210	868 253
	400 CFM/ton	CFM Watts	998 / 1094 107 / 134	1010 / 1003 160 / 158	1017 / 895 213 / 173	1018 / 765 266 / 179	1008 / NA 315 / NA	400 CFM/ton	CFM Watts	989 100	1001 152	1008 205	1008 257	1000 306
	450 CFM/ton	CFM Watts	1116 / 1212 143 / 176	1135 / 1126 205 / 201	1147 / 1027 267 / 219	1148 / 911 325 / 227	1134 / NA 376 / NA	450 CFM/ton	CFM Watts	1104 133	1124 194	1136 255	1139 314	1128 366
3 tons	290 CFM/ton	CFM Watts	883 / 981 79 / 101	888 / 882 124 / 122	887 / 762 169 / 136	881 / 608 214 / 140	870 / NA 257 / NA	290 CFM/ton	CFM Watts	877 74	880 118	879 164	874 208	863 252
	350 CFM/ton	CFM Watts	1043 / 1140 120 / 150	1059 / 1051 177 / 174	1068 / 947 233 / 190	1069 / 823 288 / 197	1059 / NA 339 / NA	350 CFM/ton	CFM Watts	1034 112	1049 168	1058 224	1061 279	1053 330
	400 CFM/ton	CFM Watts	1190 / 1304 170 / 203	1214 / 1221 238 / 231	1226 / 1126 304 / 251	1223 / 1016 364 / 261	1201 / 886 414 / 261	400 CFM/ton	CFM Watts	1177 157	1201 224	1215 291	1215 352	1198 403
	450 CFM/ton	CFM Watts	1355 / 1471 241 / 282	1376 / 1391 318 / 311	1375 / 1302 386 / 333	1353 / 1201 441 / 345	1296 / 1086 472 / 345	450 CFM/ton	CFM Watts	1338 221	1363 299	1368 369	1350 427	1314 472
<ul style="list-style-type: none"> † Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. 							<ul style="list-style-type: none"> Torque mode will reduce airflow when static is above approximately 0.35" water column. All heating modes default to Constant CFM. Cooling airflow values are with wet coil, no filter 							
TAM9A0B30 Minimum Heating Airflow Settings														
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1							
TAM9A0B30	723/808	723/1020	765/1020	680/808	765/1063	850/1105	-							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														

TAM9A0C36 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2 tons	290	CFM	605 / 747	573 / 565	553 / 306	548 / NA	546 / NA	290	CFM	606	574	557	551	549
		Watts	31 / 48	59 / 58	88 / 62	120 / NA	153 / NA		Watts	31	58	87	119	152
	370	CFM	755 / 880	745 / 738	737 / 575	738 / 367	735 / NA	350	CFM	720	705	695	694	691
		Watts	50 / 70	85 / 85	121 / 93	160 / 97	197 / NA		Watts	43	77	111	148	184
2.5 tons	400	CFM	810 / 929	804 / 797	800 / 650	802 / 478	802 / 231	400	CFM	810	805	800	803	802
		Watts	58 / 80	97 / 96	136 / 106	176 / 111	216 / 120		Watts	56	95	134	174	214
	450	CFM	900 / 1011	900 / 893	902 / 764	905 / 624	906 / 462	450	CFM	900	900	903	906	907
		Watts	75 / 98	118 / 117	162 / 129	207 / 136	251 / 140		Watts	72	115	159	204	248
2.5 tons	290	CFM	742 / 891	729 / 752	722 / 592	721 / 394	720 / NA	290	CFM	742	731	722	722	720
		Watts	48 / 72	82 / 87	118 / 96	155 / 99	193 / NA		Watts	46	81	117	154	191
	370	CFM	922 / 1055	923 / 942	927 / 820	930 / 690	931 / 546	350	CFM	877	877	876	880	880
		Watts	80 / 109	124 / 128	170 / 142	215 / 150	260 / 154		Watts	68	110	152	196	239
3 tons †	400	CFM	989 / 1118	995 / 1012	1002 / 899	1008 / 779	1010 / 652	400	CFM	989	995	1000	1008	1008
		Watts	95 / 127	143 / 148	193 / 163	242 / 173	290 / 177		Watts	90	139	188	258	285
	450	CFM	1103 / 1228	1117 / 1131	1129 / 1028	1137 / 921	1137 / 809	450	CFM	1102	1116	1127	1137	1138
		Watts	125 / 162	181 / 185	238 / 203	294 / 215	346 / 221		Watts	119	175	231	288	340
3 tons †	290	CFM	872 / 1009	871 / 890	871 / 761	874 / 620	874 / 457	290	CFM	871	872	871	874	875
		Watts	70 / 97	111 / 116	154 / 128	197 / 135	240 / 139		Watts	67	109	151	195	237
	370 †	CFM	1089 / 1214	1102 / 1116	1114 / 1013	1121 / 905	1122 / 791	350	CFM	1033	1043	1051	1059	1061
		Watts	121 / 157	176 / 180	232 / 198	287 / 209	339 / 215		Watts	101	152	204	257	307
3.5 tons	400	CFM	1175 / 1298	1193 / 1205	1208 / 1107	1215 / 1006	1211 / 899	400 (a)	CFM	1171	1191	1205	1215	1212
		Watts	147 / 188	208 / 212	270 / 231	329 / 244	382 / 251		Watts	139	200	262	322	376
	450	CFM	1329 / 1447	1353 / 1361	1366 / 1270	1363 / 1176	1343 / 1077	450	CFM	1324	1349	1364	1364	1347
		Watts	204 / 253	276 / 279	345 / 299	406 / 313	456 / 321		Watts	192	264	334	396	448
3.5 tons	290	CFM	1002 / 1131	1009 / 1026	1017 / 914	1023 / 797	1024 / 671	290	CFM	997	1010	1016	1022	1027
		Watts	98 / 130	147 / 152	198 / 167	248 / 177	296 / 182		Watts	92	143	197	248	293
	370	CFM	1270 / 1391	1293 / 1302	1308 / 1210	1311 / 1113	1297 / 1012	350	CFM	1196	1217	1231	1241	1234
		Watts	181 / 227	249 / 252	316 / 272	377 / 286	429 / 293		Watts	146	210	272	334	387
3.5 tons	400	CFM	1383 / 1499	1407 / 1414	1416 / 1325	1406 / 1233	1380 / 1136	400	CFM	1379	1404	1415	1330	1390
		Watts	227 / 278	303 / 305	372 / 325	431 / 340	478 / 348		Watts	214	289	360	378	473
	450	CFM	1579 / 1669	1583 / 1587	1567 / 1502	1474 / 1413	1357 / 1320	450	CFM	1499	1508	1586	1504	1390
		Watts	326 / 375	402 / 402	464 / 423	475 / 437	468 / 444		Watts	268	342	460	478	472
<ul style="list-style-type: none"> † Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. 							<ul style="list-style-type: none"> Torque mode will reduce airflow when static is above approximately 0.35" water column. All heating modes default to Constant CFM. Cooling airflow values are with wet coil, no filter 							
TAM9A0C36 Minimum Heating Airflow Settings														
MODEL NO.	BAYEAC04BK1 BAYEAC04LG1 BAYEAC05BK1 BAYEAC05LG1	BAYEAC08BK1 BAYEAC08LG1	BAYEAC10BK1 BAYEAC10LG1	BAYEAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1							
TAM9A0C36	876/979	876/1236	927/1236	824/979	927/1288	1030/1339	1236/1442							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														

TAM9A0C42 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2.5 tons	290	CFM	747 / 905	743 / 764	742 / 591	741 / 342	739 / NA	290	CFM	744	741	740	738	734
		Watts	48 / 77	87 / 94	127 / 102	168 / 106	207 / NA	CFM/ton	51	90	130	170	209	
	370	CFM	937 / 1072	942 / 956	946 / 823	947 / 655	944 / 458	350	CFM	889	892	894	894	890
		Watts	80 / 118	129 / 139	179 / 151	227 / 155	273 / 155	CFM/ton	76	123	169	215	259	
3 tons	400	CFM	1006 / 1136	1014 / 1027	1020 / 903	1022 / 760	1019 / 586	400	CFM	1006	1016	1018	1019	1016
		Watts	95 / 138	148 / 159	201 / 173	253 / 178	302 / 177	CFM/ton	103	156	209	160	308	
	450	CFM	1122 / 1247	1135 / 1146	1143 / 1035	1146 / 911	1142 / 768	450	CFM	1124	1135	1142	1144	1140
		Watts	125 / 176	185 / 200	245 / 216	303 / 224	357 / 223	CFM/ton	136	196	256	313	366	
3.5 tons	290	CFM	885 / 1026	889 / 904	891 / 763	892 / 590	889 / 341	290	CFM	884	887	889	889	885
		Watts	70 / 106	116 / 125	163 / 136	209 / 139	254 / 143	CFM/ton	75	121	168	214	257	
	370	CFM	1108 / 1233	1120 / 1132	1128 / 1019	1131 / 893	1128 / 747	350	CFM	1053	1062	1067	1069	1066
		Watts	121 / 171	181 / 195	240 / 210	297 / 218	350 / 217	CFM/ton	115	171	227	280	330	
3.5 tons †	400	CFM	1194 / 1316	1208 / 1220	1218 / 1115	1221 / 999	1215 / 868	400	CFM	1196	1209	1218	1219	1212
		Watts	147 / 204	212 / 229	276 / 246	337 / 255	393 / 256	CFM/ton	160	225	289	349	403	
	450	CFM	1343 / 1463	1361 / 1374	1371 / 1279	1368 / 1175	1352 / 1061	450	CFM	1347	1363	1371	1366	1342
		Watts	200 / 272	275 / 300	348 / 320	413 / 331	469 / 334	CFM/ton	220	295	367	430	480	
4 tons	290	CFM	1020 / 1149	1028 / 1041	1034 / 919	1037 / 779	1034 / 609	290	CFM	1020	1028	1033	1173	1031
		Watts	99 / 142	152 / 164	206 / 178	259 / 183	308 / 182	CFM/ton	107	160	214	327	315	
	370 †	CFM	1287 / 1408	1304 / 1317	1314 / 1218	1315 / 1110	1304 / 981	350	CFM	1220	1234	1243	1244	1236
		Watts	179 / 245	250 / 272	320 / 291	384 / 301	441 / 303	CFM/ton	169	236	301	362	417	
4 tons	400	CFM	1395 / 1514	1413 / 1427	1421 / 1334	1415 / 1233	1369 / 1124	400 †	CFM	1440	1416	1421	1411	1355
		Watts	221 / 299	300 / 328	374 / 348	440 / 361	480 / 364	CFM/ton	244	322	395	458	475	
	450	CFM	1584 / 1687	1593 / 1605	1576 / 1518	1474 / 1425	1350 / 1326	450	CFM	1589	1592	1545	1434	1315
		Watts	313 / 405	399 / 435	467 / 458	477 / 472	468 / 477	CFM/ton	347	428	474	473	463	
4 tons	290	CFM	1156 / 1302	1169 / 1205	1178 / 1098	1181 / 981	1174 / 848	290	CFM	1157	1169	1177	1179	1174
		Watts	135 / 197	197 / 222	259 / 239	319 / 248	383 / 249	CFM/ton	147	209	271	330	383	
	370	CFM	1487 / 1618	1500 / 1534	1496 / 1445	1445 / 1350	1319 / 1248	350	CFM	1400	1416	1421	1411	1335
		Watts	288 / 359	369 / 389	441 / 411	481 / 425	470 / 429	CFM/ton	244	322	395	458	475	
4 tons	400	CFM	1616 / 1728	1614 / 1646	1543 / 1543	1423 / 1423	1301 / 1301	400	CFM	1615	1615	1545	1431	1313
		Watts	363 / 433	443 / 464	475 / 475	472 / 472	463 / 463	CFM/ton	363	444	474	471	462	
	450	CFM	1711 / 1711	1621 / 1621	1514 / 1514	1393 / 1393	1273 / 1273	450	CFM	1716	1629	1528	1411	1297
		Watts	432 / 432	456 / 456	465 / 465	460 / 460	453 / 453	CFM/ton	430	453	462	458	452	

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.

- Torque mode will reduce airflow when static is above approximately 0.35" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C42 Minimum Heating Airflow Settings							
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1
TAM9A0C42	978/1093	978/1380	1035/1380	920/1093	1035/1438	1150/1495	1380/1610

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

TAM9A0C48 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3 tons	290 CFM/ton	CFM Watts	894 / 1018 69 / 91	900 / 897 114 / 114	896 / 767 157 / 130	886 / 622 195 / 137	871 / 445 229 / 136	290 CFM/ton	CFM Watts	893 72	900 118	893 159	883 197	864 230
	350 CFM/ton	CFM Watts	1067 / 1180 106 / 132	1073 / 1078 158 / 160	1072 / 972 208 / 180	1065 / 859 252 / 192	1053 / 738 292 / 194	350 CFM/ton	CFM Watts	1068 112	1073 164	1070 213	1062 257	1049 295
	400 CFM/ton	CFM Watts	1205 / 1314 145 / 176	1212 / 1222 203 / 206	1213 / 1128 259 / 229	1208 / 1029 309 / 244	1199 / 926 354 / 249	400 CFM/ton	CFM Watts	1207 154	1212 212	1212 266	1206 315	1196 359
	450 CFM/ton	CFM Watts	1343 / 1451 193 / 232	1352 / 1367 259 / 264	1355 / 1280 320 / 289	1353 / 1190 377 / 305	1346 / 1098 427 / 313	450 CFM/ton	CFM Watts	1344 206	1352 270	1354 331	1352 387	1344 436
3.5 tons	290 CFM/ton	CFM Watts	1034 / 1149 98 / 123	1041 / 1044 149 / 150	1038 / 934 197 / 170	1031 / 817 240 / 181	1018 / 690 279 / 182	290 CFM/ton	CFM Watts	1034 103	1040 154	1037 202	1028 244	1014 281
	350 CFM/ton	CFM Watts	1228 / 1336 152 / 185	1235 / 1246 212 / 215	1236 / 1153 268 / 238	1232 / 1056 319 / 253	1224 / 955 365 / 259	350 CFM/ton	CFM Watts	1229 162	1235 221	1236 276	1230 326	1220 371
	400 CFM/ton	CFM Watts	1389 / 1498 212 / 253	1399 / 1415 280 / 286	1403 / 1331 343 / 311	1401 / 1244 402 / 328	1395 / 1154 455 / 336	400 CFM/ton	CFM Watts	1392 226	1400 293	1403 356	1400 413	1394 465
	450 CFM/ton	CFM Watts	1558 / 1669 290 / 343	1570 / 1592 367 / 377	1575 / 1514 439 / 404	1575 / 1434 505 / 422	1568 / 1351 563 / 432	450 CFM/ton	CFM Watts	1561 310	1572 386	1576 457	1574 521	1567 577
4 tons †	290 CFM/ton	CFM Watts	1168 / 1298 133 / 170	1175 / 1205 191 / 200	1175 / 1109 244 / 223	1170 / 1010 293 / 237	1160 / 905 336 / 242	290 CFM/ton	CFM Watts	1168 141	1176 198	1174 251	1168 299	1157 341
	350 † CFM/ton	CFM Watts	1389 / 1517 212 / 262	1399 / 1436 280 / 295	1403 / 1352 343 / 321	1401 / 1266 402 / 338	1395 / 1177 455 / 346	350 CFM/ton	CFM Watts	1392 226	1400 293	1403 356	1400 413	1394 465
	400 CFM/ton	CFM Watts	1583 / 1714 303 / 370	1595 / 1639 382 / 546	1601 / 1562 455 / 431	1600 / 1483 521 / 450	1593 / 1401 580 / 459	400 † CFM/ton	CFM Watts	1586 325	1597 402	1601 474	1599 538	1591 595
	450 CFM/ton	CFM Watts	1790 / 1918 429 / 511	1800 / 184 8515 / 546	1808 / 1775 594 / 573	1793 / 1701 663 / 592	1698 / 1625 660 / 601	450 CFM/ton	CFM Watts	1794 459	1801 544	1800 620	1766 665	1667 655
4.5 tons**	290 CFM/ton	CFM Watts	1301 / 1429 177 / 222	1310 / 1344 241 / 253	1312 / 1256 300 / 278	1309 / 1165 355 / 294	1302 / 1071 404 / 302	290 CFM/ton	CFM Watts	1302 189	1310 252	1311 310	1309 355	1301 403
	350 CFM/ton	CFM Watts	1558 / 1688 290 / 354	1570 / 1613 367 / 389	1575 / 1535 439 / 415	1575 / 1455 505 / 434	1568 / 1373 563 / 444	350 CFM/ton	CFM Watts	1557 290	1570 367	1575 439	1575 505	1569 563
	400 CFM/ton	CFM Watts	1790 / 1918 429 / 511	1800 / 1848 515 / 546	1801 / 1775 594 / 573	1793 / 1701 663 / 592	1698 / 1625 660 / 601	400 CFM/ton	CFM Watts	1789 428	1799 515	1801 594	1794 663	1701 659
	450 CFM/ton	CFM Watts	2018 / 2018 605 / 605	1973 / 1973 656 / 656	1857 / 1857 645 / 645	1749 / 1749 637 / 637	1651 / 1651 631 / 631	450 CFM/ton	CFM Watts	2018 605	1975 656	1863 643	1757 634	1660 628

- † Factory Setting
- ** Not an actual OD size
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.4" water column.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C48 Minimum Heating Airflow Settings								
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1	BAYEACC25BK1
TAM9A0C48	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

TAM9A0C60 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3.5 tons	290 CFM/ton	CFM Watts	1040 / 1151 94 / 119	1068 / 1056 151 / 148	1075 / 941 203 / 168	1066 / 799 247 / 175	1046 / 607 283 / 165	290 CFM/ton	CFM Watts	1039 95	1065 151	1071 203	1063 247	1045 283
	370 CFM/ton	CFM Watts	1312 / 1343 171 / 178	1332 / 1264 236 / 210	1336 / 1174 296 / 235	1329 / 1068 349 / 250	1314 / 945 392 / 251	350 CFM/ton	CFM Watts	1247 150	1266 213	1270 270	1263 321	1248 363
	400 CFM/ton	CFM Watts	1408 / 1496 206 / 238	1425 / 1426 274 / 273	1429 / 1346 337 / 301	1423 / 1256 393 / 319	1410 / 1154 440 / 325	400 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	450 CFM/ton	CFM Watts	1565 / 1650 274 / 312	1579 / 1585 348 / 348	1584 / 1512 416 / 378	1580 / 1432 477 / 398	1569 / 1343 529 / 407	450 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
4 tons	290 CFM/ton	CFM Watts	1186 / 1304 131 / 164	1208 / 1223 192 / 196	1213 / 1128 248 / 220	1206 / 1018 297 / 234	1189 / 887 337 / 233	290 CFM/ton	CFM Watts	1185 131	1206 192	1210 248	1203 297	1187 337
	370 CFM/ton	CFM Watts	1480 / 1514 235 / 245	1495 / 1444 306 / 280	1499 / 1365 372 / 308	1495 / 1277 430 / 327	1482 / 1177 479 / 334	350 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	400 CFM/ton	CFM Watts	1587 / 1689 285 / 332	1602 / 1625 360 / 369	1606 / 1554 429 / 399	1602 / 1475 490 / 420	1592 / 1399 543 / 430	400 CFM/ton	CFM Watts	1587 285	1600 360	1604 428	1601 490	1592 543
	450 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1782 / 1597 671 / 546	450 CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
4.5 tons ***	290 CFM/ton	CFM Watts	1322 / 1431 174 / 211	1340 / 1358 240 / 245	1345 / 1274 300 / 271	1338 / 1179 353 / 288	1323 / 1069 397 / 292	290 CFM/ton	CFM Watts	1321 174	1338 240	1342 300	1336 352	1322 396
	370 † CFM/ton	CFM Watts	1646 / 1667 315 / 320	1660 / 1602 392 / 357	1665 / 1530 463 / 386	1662 / 1451 527 / 407	1653 / 1363 582 / 417	350 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
	400 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1781 / 1597 671 / 546	400 † CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
	450 CFM/ton	CFM Watts	1989 / 2099 535 / 612	2004 / 2042 627 / 650	2012 / 1980 712 / 681	2013 / 1913 788 / 703	2009 / 1842 855 / 716	450 CFM/ton	CFM Watts	1989 534	2003 626	2011 711	2014 788	2011 856
5 tons	290 CFM/ton	CFM Watts	1452 / 1557 224 / 265	1469 / 1489 294 / 301	1473 / 1413 358 / 329	1468 / 1327 415 / 348	1455 / 1231 463 / 356	290 CFM/ton	CFM Watts	1452 224	1467 294	1471 358	1466 415	1454 463
	370 CFM/ton	CFM Watts	1817 / 1826 415 / 451	1831 / 1765 499 / 451	1837 / 1698 576 / 481	1837 / 1624 647 / 503	1831 / 1544 708 / 515	350 CFM/ton	CFM Watts	1723 357	1736 437	1741 511	1740 578	1734 636
	400 CFM/ton	CFM Watts	1964 / 2073 516 / 590	1978 / 2015 607 / 629	1986 / 1953 690 / 660	1987 / 1886 766 / 682	1983 / 1814 832 / 695	400 CFM/ton	CFM Watts	1964 515	1978 606	1985 690	1988 766	1985 833
	450 CFM/ton	CFM Watts	2231 / 2347 741 / 842	2245 / 2292 842 / 879	2252 / 2233 934 / 908	2252 / 2171 1015 / 930	2185 / 2104 1024 / 941	450 CFM/ton	CFM Watts	2232 741	2245 842	2252 934	2252 1016	2186 1023

- † Factory Setting
- ** Not an actual OD size
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.4" water column.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C60 MINIMUM HEATING AIRFLOW CFM — HEATER MATRIX								
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1	BAYEACC25BK1
TAM9A0C60	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: American Standard

Model: TEM6A

7. Blower

This unit is supplied with a variable speed motor with a direct drive blower wheel which can obtain various air flows. The unit is shipped with factory set cooling and heating air flows. Performance tables are available for additional airflow settings. Disconnect all power to the unit before making any adjustments to the airflow settings. Be sure to check the air flow and the temperature drop across the evaporator coil to ensure sufficient air flow.

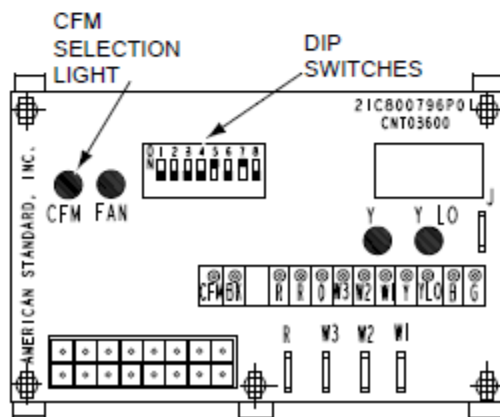
8. Airflow Adjustment

⚠ CAUTION
EQUIPMENT DAMAGE!
Failure to follow this procedure may result in equipment damage.
Disconnect power to the air handler before changing dip switch positions.

Blower speed changes are made on the ECM Fan Control. The ECM Fan Control controls the variable speed motor.

There is a bank of 8 dip switches. The dip switches work in pairs to match the airflow for the outdoor unit size (tons). cooling airflow adjustment, Fan off-delay options, and heating airflow adjustment. The switches appear as shown in Figure 2, p. 7

Figure 1. ECM Fan Control



TEM6A0B24H21SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ton	ON	ON	OFF	ON	CFM Watts	533 52	497 78	461 104	425 130	390 157
	NORMAL	401 CFM/ton	ON	ON	OFF	OFF	CFM Watts	611 65	580 95	548 125	517 155	486 185
	HIGH	451 CFM/ton	ON	ON	ON	OFF	CFM Watts	684 81	668 115	644 148	611 182	570 215
2	LOW	343 CFM/ton	OFF	ON	OFF	ON	CFM Watts	687 82	672 115	648 149	614 182	571 215
	NORMAL	390 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	789 104	798 145	780 183	735 216	663 246
	HIGH	439 CFM/ton	OFF	ON	ON	OFF	CFM Watts	884 135	887 177	882 230	845 274	751 290
2.5	LOW	300 CFM/ton	ON	OFF	OFF	ON	CFM Watts	752 92	749 123	729 167	691 211	636 241
	NORMAL (a)	340 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	859 128	861 172	863 211	830 242	727 268
	HIGH	383 CFM/ton	ON	OFF	ON	OFF	CFM Watts	963 172	973 223	995 263	967 291	844 308

(a) Factory Default Setting

Table 5. Air Flow Performance

TEM6A0B24H21SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ton	ON	ON	OFF	ON	CFM Watts	599 58	571 88	539 117	502 146	462 175
	NORMAL	448 CFM/ton	ON	ON	OFF	OFF	CFM Watts	680 72	665 109	641 145	610 178	572 209
	HIGH	493 CFM/ton	ON	ON	ON	OFF	CFM Watts	748 89	746 118	682 163	545 208	326 240
2	LOW	393 CFM/ton	OFF	ON	OFF	ON	CFM Watts	785 97	790 128	773 175	735 223	674 253
	NORMAL	446 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	904 131	902 179	912 219	894 253	809 281
	HIGH	491 CFM/ton	OFF	ON	ON	OFF	CFM Watts	980 167	972 216	990 268	974 308	863 324
2.5	LOW	350 CFM/ton	ON	OFF	OFF	ON	CFM Watts	866 125	870 162	866 215	833 263	750 286
	NORMAL (a)	398 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	995 171	988 222	1005 271	986 309	872 325
	HIGH	437 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1099 220	1086 274	1098 328	1065 362	918 353

TEM6A0B30H21SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ton	ON	ON	OFF	ON	CFM Watts	533 52	497 78	461 104	425 130	390 157
	NORMAL	401 CFM/ton	ON	ON	OFF	OFF	CFM Watts	611 65	580 95	548 125	517 155	486 185
	HIGH	451 CFM/ton	ON	ON	ON	OFF	CFM Watts	684 81	668 115	644 148	611 182	570 215
2	LOW	343 CFM/ton	OFF	ON	OFF	ON	CFM Watts	687 82	672 115	648 149	614 182	571 215
	NORMAL	390 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	789 104	798 145	780 183	735 216	663 246
	HIGH	439 CFM/ton	OFF	ON	ON	OFF	CFM Watts	884 135	887 177	882 230	845 274	751 290
2.5	LOW	300 CFM/ton	ON	OFF	OFF	ON	CFM Watts	752 92	749 123	729 167	691 211	636 241
	NORMAL	340 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	859 128	861 172	863 211	830 242	727 268
	HIGH	383 CFM/ton	ON	OFF	ON	OFF	CFM Watts	963 172	973 223	995 263	967 291	844 308
3	LOW	310 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	913 119	947 172	962 233	938 297	883 364
	NORMAL ^(*)	330 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	967 138	1004 194	1022 258	1000 326	947 397

(*) Factory Default Setting

Table 7. Air Flow Performance

TEM6A0B30H21SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ton	ON	ON	OFF	ON	CFM Watts	599 58	571 88	539 117	502 146	462 175
	NORMAL	448 CFM/ton	ON	ON	OFF	OFF	CFM Watts	680 72	665 109	641 145	610 178	572 209
	HIGH	493 CFM/ton	ON	ON	ON	OFF	CFM Watts	748 89	746 118	682 163	545 208	326 240
2	LOW	393 CFM/ton	OFF	ON	OFF	ON	CFM Watts	785 97	790 128	773 175	735 223	674 253
	NORMAL	446 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	904 131	902 179	912 219	894 253	809 281
	HIGH	491 CFM/ton	OFF	ON	ON	OFF	CFM Watts	980 167	972 216	990 268	974 308	863 324
2.5	LOW	350 CFM/ton	ON	OFF	OFF	ON	CFM Watts	866 125	870 162	866 215	833 263	750 286
	NORMAL	398 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	995 171	988 222	1005 271	986 309	872 325
	HIGH	437 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1099 220	1086 274	1098 328	1065 362	918 353
3	LOW	325 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	953 133	990 188	1007 251	985 318	931 389
	NORMAL ^(*)	346 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1010 154	1049 212	1066 279	1047 350	1000 426

TEM6A0C36H31SB, TEM6A0C42H41SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
2.5	LOW	300 CFM/ton	ON	ON	OFF	ON	CFM Watts	761 63	755 98	719 131	654 163	560 193
	NORMAL	341 CFM/ton	ON	ON	OFF	OFF	CFM Watts	862 82	861 120	834 158	781 196	700 235
	HIGH	384 CFM/ton	ON	ON	ON	OFF	CFM Watts	962 106	963 147	948 190	915 234	863 279
3	LOW	319 CFM/ton	OFF	ON	OFF	ON	CFM Watts	961 106	962 147	947 189	914 233	862 279
	NORMAL	363 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1092 146	1093 192	1082 240	1060 288	1026 337
	HIGH	408 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1231 196	1231 249	1221 301	1203 353	1175 404
3.5	LOW	315 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1104 150	1105 197	1094 245	1072 293	1039 343
	NORMAL	357 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1258 209	1258 263	1248 317	1229 369	1201 421
	HIGH	402 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1418 286	1415 347	1401 406	1379 462	1348 516
4	LOW	308 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1238 199	1238 253	1229 306	1210 357	1182 408
	NORMAL ^(*)	350 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1412 282	1410 344	1398 404	1378 462	1349 517
	HIGH	394 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1570 393	1528 436	1473 466	1406 483	1326 488

(*) Factory Default Setting

Table 9. Air Flow Performance

TEM6A0C36H31SB, TEM6A0C42H41SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
2.5	LOW	341 CFM/ton	ON	ON	OFF	ON	CFM Watts	860 77	863 115	838 154	788 193	707 232
	NORMAL	379 CFM/ton	ON	ON	OFF	OFF	CFM Watts	949 98	953 138	937 180	906 224	852 269
	HIGH	417 CFM/ton	ON	ON	ON	OFF	CFM Watts	1042 122	1046 166	1036 212	1015 259	980 308
3	LOW	381 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1147 154	1149 203	1141 253	1123 303	1094 353
	NORMAL	424 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1277 204	1279 259	1272 314	1255 368	1228 421
	HIGH	466 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1409 260	1409 323	1401 383	1384 442	1357 500
3.5	LOW	348 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1222 180	1224 232	1216 285	1200 336	1174 388
	NORMAL	386 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1361 240	1362 300	1354 358	1337 415	1310 471
	HIGH	425 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1497 316	1478 372	1449 420	1408 461	1356 494
4	LOW	338 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1360 239	1361 299	1353 358	1336 415	1309 470
	NORMAL ^(*)	375 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1511 325	1489 380	1456 426	1412 464	1355 493
	HIGH	413 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1659 420	1605 463	1535 488	1450 494	1349 483

(*) Factory Default Setting

TEM6A0C48H41SB, TEM6A0C60H51SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	324 CFM/ton	ON	ON	OFF	ON	CFM Watts	991 89	985 133	974 186	984 237	994 303
	NORMAL	368 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1120 118	1119 167	1110 224	1116 279	1122 333
	HIGH	423 CFM/ton	ON	ON	ON	OFF	CFM Watts	1282 162	1286 219	1281 280	1280 343	1282 402
3.5	LOW	314 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1116 117	1114 165	1105 222	1111 277	1117 331
	NORMAL	357 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1263 156	1266 212	1261 273	1261 334	1263 392
	HIGH	411 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1449 218	1458 287	1456 352	1449 421	1447 496
4	LOW	298 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1207 140	1208 193	1201 252	1203 311	1207 366
	NORMAL	339 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1368 190	1374 252	1370 315	1367 381	1367 448
	HIGH	389 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1564 264	1577 343	1577 411	1567 484	1561 570
5	LOW	305 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1534 251	1545 328	1545 394	1536 467	1531 550
	NORMAL ^(a)	347 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1740 344	1758 444	1762 518	1745 594	1734 684
	HIGH ^(b)	399 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1995 484	2022 629	2030 717	2005 783	1987 828

^(a) Factory Default Setting

^(b) Airflow must not exceed 1800 cfm in horizontal right, horizontal left, and downflow applications due to condensate blowoff. The 5 ton high tap shall not be used in these applications.

Table 11. Air Flow Performance

TEM6A0C48H41SB, TEM6A0C60H51SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	360 CFM/ton	ON	ON	OFF	ON	CFM Watts	1097 112	1094 160	1086 216	1092 271	1099 326
	NORMAL	400 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1215 142	1216 196	1210 255	1211 314	1215 369
	HIGH	440 CFM/ton	ON	ON	ON	OFF	CFM Watts	1333 178	1338 238	1333 300	1331 365	1332 428
3.5	LOW	348 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1232 147	1234 202	1228 261	1229 322	1233 377
	NORMAL	387 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1366 189	1373 252	1369 314	1366 381	1365 447
	HIGH	426 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1500 238	1511 311	1510 377	1502 449	1498 529
4	LOW	338 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1364 188	1370 251	1366 313	1363 379	1363 446
	NORMAL	375 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1509 241	1520 315	1519 382	1511 453	1506 535
	HIGH	413 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1659 305	1674 395	1676 466	1662 541	1654 632
5	LOW	326 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1637 295	1652 383	1653 453	1641 528	1632 618
	NORMAL ^(a)	362 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1814 381	1834 493	1839 570	1820 645	1807 730
	HIGH	398 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1990 481	2017 625	2025 713	2000 779	1982 826

TEM6A0D48H41SB, TEM6A0D60H51SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	323 CFM/ton	ON	ON	OFF	ON	CFM Watts	979 87	978 126	959 170	922 217	867 269
	NORMAL	367 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1111 124	1113 168	1101 215	1075 265	1036 317
	HIGH	415 CFM/ton	ON	ON	ON	OFF	CFM Watts	1252 165	1259 214	1254 264	1239 314	1212 364
3.5	LOW	315 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1111 124	1113 168	1101 215	1075 265	1036 317
	NORMAL	358 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1259 167	1266 217	1261 267	1246 317	1220 368
	HIGH	404 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1419 223	1428 279	1425 334	1411 389	1386 444
4	LOW	309 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1241 161	1248 210	1243 259	1227 309	1201 359
	NORMAL	351 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1407 218	1416 273	1413 328	1399 383	1373 437
	HIGH	396 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1583 296	1593 359	1594 422	1586 485	1570 547
5	LOW	295 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1478 249	1487 307	1486 365	1474 423	1452 481
	NORMAL ^(*)	335 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1671 344	1681 412	1684 479	1678 545	1635 565
	HIGH	379 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1880 476	1892 556	1900 635	1902 714	1760 650

(*) Factory Default Setting

Table 13. Air Flow Performance

TEM6A0D48H41SB, TEM6A0D60H51SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	360 CFM/ton	ON	ON	OFF	ON	CFM Watts	1087 111	1091 153	1081 199	1055 249	1015 301
	NORMAL	400 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1205 139	1213 186	1211 234	1198 283	1173 333
	HIGH	440 CFM/ton	ON	ON	ON	OFF	CFM Watts	1322 175	1333 227	1332 279	1321 332	1297 384
3.5	LOW	347 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1219 143	1228 191	1226 240	1213 289	1189 339
	NORMAL	386 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1351 184	1363 237	1363 290	1351 344	1328 397
	HIGH	424 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1482 232	1495 291	1497 349	1489 408	1471 466
4	LOW	351 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1405 201	1417 256	1418 311	1408 367	1385 422
	NORMAL	390 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1555 262	1568 323	1572 385	1567 447	1553 509
	HIGH	429 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1703 334	1717 403	1723 472	1722 540	1665 560
5	LOW	327 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1625 294	1639 359	1644 424	1641 489	1630 554
	NORMAL ^(*)	363 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1797 384	1812 459	1820 533	1822 606	1750 615
	HIGH	400 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1970 495	1986 581	1999 667	2010 740	1910 680

Minimum Airflow CFM

TEM6A0B24H21SB, TEM6A0B30H21SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	660	600
BAYHTR1508BRK, BAYHTR1508LUG	780	600
BAYHTR1510BRK, BAYHTR1510LUG	780	600
BAYHTR1517BRK	1050	850
BAYHTR3510LUG	780	600
BAYHTR3517LUG	900	850

TEM6A0C36H31SB, TEM6A0C42H41SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	875	675
BAYHTR1508BRK, BAYHTR1508LUG	950	820
BAYHTR1510BRK, BAYHTR1510LUG	1000	820
BAYHTR1517BRK	1000	820
BAYHTR3510LUG	875	820
BAYHTR3517LUG	1000	950
BAYHTR1523BRK	1300	1140

TEM6A0C48H41SB, TEM6A0C60H51SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	1200	975
BAYHTR1508BRK, BAYHTR1508LUG	1350	975
BAYHTR1510BRK, BAYHTR1510LUG	1350	975
BAYHTR1517BRK	1365	975
BAYHTR3510LUG	1300	975
BAYHTR3517LUG	1365	1120
BAYHTR1523BRK	1365	1300
BAYHTR1525BRK	1810	1505

TEM6A0D48H41SB, TEM6A0D60H51SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	1150	975
BAYHTR1508BRK, BAYHTR1508LUG	1150	975
BAYHTR1510BRK, BAYHTR1510LUG	1150	975
BAYHTR1517BRK	1300	1125
BAYHTR3510LUG	1150	975
BAYHTR3517LUG	1300	1125
BAYHTR1523BRK	1380	1125
BAYHTR1525BRK	1550	1345

TEM6A0B24H21SB, TEM6A0B30H21SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	601	
Med-Lo	OFF	ON	661	
Med-Hi	ON	OFF	781	
High	OFF	OFF	973	

TEM6A0C36H31SB, TEM6A0C42H41SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	696	
Med-Lo	OFF	ON	825	
Med-Hi	ON	OFF	1150	
High	OFF	OFF	1298	

TEM6A0C48H41SB, TEM6A0C60H51SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	1000	
Med-Lo	OFF	ON	1130	
Med-Hi	ON	OFF	1354	
High	OFF	OFF	1596	

TEM6A0D48H41SB, TEM6A0D60H51SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	997	
Med-Lo	OFF	ON	1129	
Med-Hi	ON	OFF	1350	
High	OFF	OFF	1597	

Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR1517	3
1200	0.01	0.04	0.05	0.10	BAYHTR3510	3
1100	0.01	0.03	0.05	0.09	BAYHTR3517	3
1000	0.01	0.03	0.04	0.09	BAYHTR3515	3
900	0.01	0.03	0.04	0.08	BAYHTR1522	4
800	0.01	0.03			BAYHTR1523	4
700	0.01	0.02			BAYHTR1525	4
600	0.01	0.02				

Subcooling Adjustment

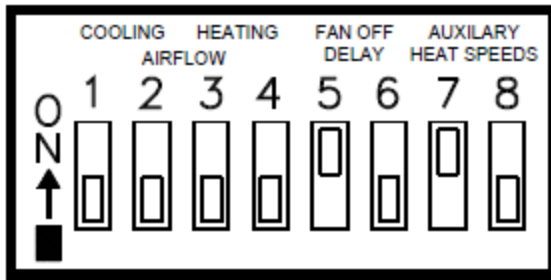
System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM6A0C36H31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM6A0B24H21 TEM6A0B30H21	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM6A0B30H21 TEM6A0C36H31 TEM6A0C42H41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees

All other matches must be charged per the nameplate charging instructions

Subcooling Adjustment for TEM6A0C48H41 & TEM6A0C60H51

Sub-Cooling Charge Specification For AHRI Rated Performance		
OD Equipment	Up Flow / Horizontal	Down Flow
AC UNIT	OD Name Plate	OD Name Plate
HP UNIT ≤ 3.5 Tons	OD Name Plate	OD Name Plate + 4 Degrees
HP UNIT = 4 and 5 Tons	OD Name Plate	OD Name Plate

Figure 2. Dip Switches



DIP SWITCHES (TYPICAL SETTINGS)

If the airflow needs to be increased or decreased, see the Airflow Label on the air handler or Blower Performance Table.

Be sure to set the correct airflow for cooling and heating.

Switches 1–4 Cooling Airflow

Switches 5–6 Fan Off Delay Options

Switches 7–8 Auxiliary Heat

Indoor Blower Timing

Important: Leave dip switches 5 and 6 in the “as-shipped” positions during system start-up and check out. Afterwards, adjust as desired.

Table 3. Cooling Off – Delay Options

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
5 – OFF	6 – OFF	NONE	SAME
5 – ON	6 – OFF	1.5 MINUTES	100% ^(a)
5 – OFF	6 – ON	3 MINUTES	50%
5 – ON	6 – ON	ENHANCED ^(b)	50–100%

^(a) Default setting

^(b) This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph shows the ramping process.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: American Standard

Model: TEM8A

7. Blower

This unit is supplied with a variable speed motor with a direct drive blower wheel which can obtain various air flows. The unit is shipped with factory set cooling and heating air flows. Performance tables are available for additional airflow settings. Disconnect all power to the unit before making any adjustments to the airflow settings. Be sure to check the air flow and the temperature drop across the evaporator coil to ensure sufficient air flow.

8. Airflow Adjustment

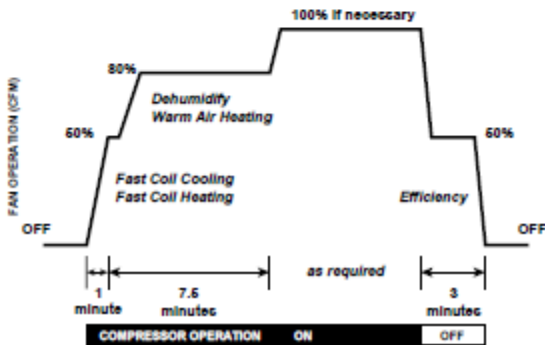
Note: A CDA tool may be plugged into the TEM8 control board and used to configure or monitor the system

9. Indoor Blower Timing

Table 3. Delay Options

The blower delay profile is to be configured for heating and cooling modes of operation. There are 4 blower off delay options	
Option 1	90 seconds at 100% air flow
Option 2	No delay
Option 3	180 seconds at 50% air flow
Option 4	Enhanced Mode

Figure 1. Enhanced Mode



Unit Test Mode

Unit Test Mode will exit if any demand is given to the unit.

To enter Unit Test Mode:

1. Set System Switch on comfort control to Off.
2. Scroll down to the Unit Test selection and push the "Enter" button.

Sequence of Unit Test Mode (OD unit is not energized during the Unit Test Mode)

1. AFC energizes the blower at 50% and then continues to ramp until it reaches 100% cooling airflow.
2. Humidifier contacts close when the blower starts.
3. AFC energizes the W relays in 10 second intervals. The blower remains at 100% air flow.
4. All relays de-energize and the blower shuts off five seconds after the last bank of heat is energized.

Note: *If an error occurs during the Unit Test Mode, the Fault LED will flash a code and continue the test.*

Performance and Electrical Data

TEM8A0B24V21DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	430 / 538 50 / 39	430 / 415 75 / 48	430 / 264 95 / 43	430 / NA 110 / NA	430 / NA 145 / NA	290 CFM/ton	CFM Watts	434 34	419 64	419 96	403 130	384 167
	350 CFM/ton	CFM Watts	520 / 620 60 / 53	520 / 514 90 / 64	520 / 398 120 / 61	520 / NA 135 / NA	510 / NA 175 / NA	350 CFM/ton	CFM Watts	521 44	512 77	514 112	500 153	485 196
	400 CFM/ton	CFM Watts	590 / 688 75 / 67	590 / 593 105 / 80	590 / 493 140 / 80	590 / NA 160 / NA	590 / NA 205 / NA	400 CFM/ton	CFM Watts	595 56	589 91	595 127	584 173	573 222
	450 CFM/ton	CFM Watts	670 / 758 85 / 85	670 / 671 125 / 100	660 / 581 160 / 102	660 / NA 190 / NA	660 / NA 235 / NA	450 CFM/ton	CFM Watts	668 71	667 107	675 145	668 196	660 250
2 tons	290 CFM/ton	CFM Watts	570 / 670 60 / 63	570 / 573 90 / 76	570 / 469 125 / 75	570 / NA 165 / NA	568 / NA 215 / NA	290 CFM/ton	CFM Watts	575 53	569 87	573 123	561 167	549 215
	350 CFM/ton	CFM Watts	690 / 781 85 / 91	690 / 696 120 / 107	690 / 609 160 / 110	690 / 518 210 / 98	680 / NA 259 / NA	350 CFM/ton	CFM Watts	693 76	693 113	702 152	696 204	689 259
	400 CFM/ton	CFM Watts	790 / 875 110 / 122	790 / 798 150 / 140	790 / 720 195 / 145	780 / 639 250 / 137	780 / 555 301 / 115	400 CFM/ton	CFM Watts	791 103	795 143	805 184	803 240	798 301
	450 CFM/ton	CFM Watts	890 / 971 145 / 161	890 / 899 185 / 181	880 / 827 235 / 189	880 / 754 295 / 184	880 / 680 347 / 184	450 CFM/ton	CFM Watts	889 138	895 181	902 226	899 284	891 347
2.5 tons †	290 CFM/ton	CFM Watts	720 / 823 90 / 104	720 / 741 140 / 120	710 / 659 170 / 124	710 / 573 220 / 115	710 / 481 260 / 91	290 CFM/ton	CFM Watts	717 82	718 120	728 159	723 212	717 269
	350 CFM/ton	CFM Watts	870 / 963 140 / 157	860 / 892 182 / 177	873 / 819 235 / 185	860 / 746 280 / 180	850 / 671 330 / 161	350 CFM/ton	CFM Watts	865 128	871 170	879 214	876 272	869 335
	390 † CFM/ton	CFM Watts	958 / 1075 147 / 170	975 / 1000 203 / 195	946 / 878 269 / 211	871 / 711 342 / 197	802 / 617 403 / 189	390 † CFM/ton	CFM Watts	958 138	979 192	957 257	878 336	822 406
	400 CFM/ton	CFM Watts	980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	400 CFM/ton	CFM Watts	980 146	998 202	969 268	882 351	821 422
	450 CFM/ton	CFM Watts	980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	450 CFM/ton	CFM Watts	980 146	998 202	969 268	882 351	821 422

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- To prevent water blow-off, the max airflow demand allowable is 1000 CFM. If an outdoor multiplier and cooling airflow setting should result in a demand higher than 1000, the AFC will default the demand back to 1000.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- In communicating mode, default CFM/Ton is 400.
- Cooling airflow values are with wet coil, no filter

TEM8A0B30V31DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	430 / 538 50 / 39	430 / 415 75 / 48	430 / 264 95 / 43	430 / NA 110 / NA	430 / NA 145 / NA	290 CFM/ton	CFM Watts	434 34	419 64	419 96	403 130	384 167
	350 CFM/ton	CFM Watts	520 / 620 60 / 53	520 / 514 90 / 64	520 / 398 120 / 61	520 / NA 135 / NA	510 / NA 175 / NA	350 CFM/ton	CFM Watts	521 44	512 77	514 112	500 153	485 196
	400 CFM/ton	CFM Watts	590 / 688 75 / 67	590 / 593 105 / 80	590 / 493 140 / 80	590 / NA 160 / NA	590 / NA 205 / NA	400 CFM/ton	CFM Watts	595 56	589 91	595 127	584 173	573 222
	450 CFM/ton	CFM Watts	670 / 758 85 / 85	670 / 671 125 / 100	660 / 581 160 / 102	660 / NA 190 / NA	660 / NA 235 / NA	450 CFM/ton	CFM Watts	668 71	667 107	675 145	668 196	660 250
2 tons	290 CFM/ton	CFM Watts	570 / 670 60 / 63	570 / 573 90 / 76	570 / 469 125 / 75	570 / NA 165 / NA	568 / NA 215 / NA	290 CFM/ton	CFM Watts	575 53	569 87	573 123	561 167	549 215
	350 CFM/ton	CFM Watts	690 / 781 85 / 91	690 / 696 120 / 107	690 / 609 160 / 110	690 / 518 210 / 98	680 / NA 259 / NA	350 CFM/ton	CFM Watts	693 76	693 113	702 152	696 204	689 259
	400 CFM/ton	CFM Watts	790 / 875 110 / 122	790 / 798 150 / 140	790 / 720 195 / 145	780 / 639 250 / 137	780 / 555 301 / 115	400 CFM/ton	CFM Watts	791 103	795 143	805 184	803 240	798 301
	450 CFM/ton	CFM Watts	890 / 971 145 / 161	890 / 899 185 / 181	880 / 827 235 / 189	880 / 754 295 / 184	880 / 680 347 / 184	450 CFM/ton	CFM Watts	889 138	895 181	902 226	899 284	891 347
2.5 tons	290 CFM/ton	CFM Watts	720 / 823 90 / 104	720 / 741 140 / 120	710 / 659 170 / 124	710 / 573 220 / 115	710 / 481 260 / 91	290 CFM/ton	CFM Watts	717 82	718 120	728 159	723 212	717 269
	350 CFM/ton	CFM Watts	870 / 963 140 / 157	860 / 892 182 / 177	873 / 819 273 / 185	860 / 746 280 / 180	850 / 671 330 / 161	350 CFM/ton	CFM Watts	865 128	871 170	879 214	876 335	869 335
	390 CFM/ton	CFM Watts	969 / 1087 143 / 166	985 / 1011 198 / 191	993 / 921 262 / 205	992 / 809 329 / 189	1000 / 770 399 / 187	390 CFM/ton	CFM Watts	969 134	989 188	1004 250	999 323	1026 402
	400 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	400 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	450 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	450 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
3 tons †	290 CFM/ton	CFM Watts	868 / 974 111 / 128	884 / 907 163 / 156	891 / 826 220 / 173	893 / 729 281 / 162	894 / 688 345 / 162	290 CFM/ton	CFM Watts	868 103	888 154	901 211	900 277	917 347
	350 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	350 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	390 † CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	390 † CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	400 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	400 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	450 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	450 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- To prevent water blow-off, the max airflow demand allowable is 1000 CFM. If an outdoor multiplier and cooling airflow setting should result in a demand higher than 1000, the AFC will default the demand back to 1000.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- In communicating mode, default CFM/Ton is 400.
- Cooling airflow values are with wet coil, no filter

TEM8A0C36V31DB & TEM8A0C42V41DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2.5 tons	290 CFM/ton	CFM Watts	735 / 837 59 / 72	727 / 702 96 / 90	700 / 593 138 / 105	673 / 415 176 / 123	660 / 415 215 / 148	290 CFM/ton	CFM Watts	735 59	727 96	700 138	673 176	660 215
	350 CFM/ton	CFM Watts	883 / 972 82 / 103	884 / 849 124 / 123	882 / 746 170 / 138	881 / 657 223 / 152	870 / 577 270 / 168	350 CFM/ton	CFM Watts	883 82	884 124	882 170	881 223	870 270
	400 CFM/ton	CFM Watts	1007 / 1084 109 / 136	1016 / 971 154 / 158	1033 / 874 204 / 174	1020 / 788 269 / 187	1010 / 711 320 / 200	400 CFM/ton	CFM Watts	1007 109	1016 154	1033 204	1020 269	1010 320
	450 CFM/ton	CFM Watts	1133 / 1198 143 / 177	1146 / 1093 192 / 202	1176 / 1001 246 / 220	1140 / 919 321 / 233	1130 / 845 375 / 244	450 CFM/ton	CFM Watts	1133 143	1146 192	1176 246	1140 321	1130 375
3 tons	290 CFM/ton	CFM Watts	878 / 993 82 / 108	879 / 872 123 / 129	876 / 771 169 / 144	874 / 682 221 / 157	865 / 602 270 / 173	290 CFM/ton	CFM Watts	878 82	879 123	876 169	874 221	865 270
	350 CFM/ton	CFM Watts	1057 / 1154 122 / 160	1068 / 1045 168 / 184	1091 / 952 220 / 201	1070 / 869 289 / 213	1060 / 793 340 / 225	350 CFM/ton	CFM Watts	1057 122	1068 168	1091 220	1070 289	1060 340
	400 CFM/ton	CFM Watts	1209 / 1289 168 / 216	1223 / 1190 219 / 243	1255 / 1102 277 / 262	1210 / 1024 355 / 276	1190 / 952 410 / 287	400 CFM/ton	CFM Watts	1209 168	1223 219	1255 277	1210 355	1190 410
	450 CFM/ton	CFM Watts	1364 / 1426 230 / 287	1375 / 1334 286 / 317	1393 / 1253 350 / 339	1340 / 1179 429 / 355	1330 / 1110 480 / 399	450 CFM/ton	CFM Watts	1364 230	1375 286	1393 350	1340 429	1330 480
3.5 tons	290 CFM/ton	CFM Watts	1022 / 1123 113 / 148	1031 / 1012 158 / 172	1050 / 917 209 / 188	1030 / 832 275 / 201	1030 / 756 325 / 213	290 CFM/ton	CFM Watts	1022 113	1031 158	1050 209	1030 275	1030 325
	350 CFM/ton	CFM Watts	1235 / 1312 178 / 227	1249 / 1214 229 / 254	1242 / 1128 288 / 274	1230 / 1050 367 / 288	1220 / 978 420 / 299	350 CFM/ton	CFM Watts	1235 178	1249 229	1242 288	1230 367	1220 420
	400 CFM/ton	CFM Watts	1416 / 1471 254 / 314	1424 / 1383 313 / 263	1399 / 1303 378 / 368	1380 / 1230 455 / 385	1370 / 1163 510 / 398	400 CFM/ton	CFM Watts	1416 254	1424 313	1399 378	1380 455	1370 510
	450 CFM/ton	CFM Watts	1601 / 1618 356 / 420	1591 / 1536 423 / 454	1547 / 1462 497 / 480	1500 / 1394 553 / 500	1390 / 1330 520 / 514	450 CFM/ton	CFM Watts	1601 356	1591 423	1547 497	1500 553	1390 520
4 tons †	290 CFM/ton	CFM Watts	1168 / 1276 155 / 209	1182 / 1175 204 / 235	1182 / 1087 260 / 254	1170 / 1007 337 / 268	1160 / 935 390 / 279	290 CFM/ton	CFM Watts	1168 155	1182 204	1182 260	1170 337	1160 390
	350 † CFM/ton	CFM Watts	1416 / 1492 254 / 326	1424 / 1404 313 / 357	1399 / 1325 378 / 381	1380 / 1252 455 / 398	1370 / 1185 510 / 411	350 † CFM/ton	CFM Watts	1416 254	1424 313	1399 378	1380 455	1370 510
	400 CFM/ton	CFM Watts	1628 / 1616 373 / 435	1614 / 1535 441 / 468	1534 / 1461 517 / 492	1500 / 1393 568 / 510	1390 / 1329 520 / 524	400 CFM/ton	CFM Watts	1628 373	1614 441	1534 517	1500 568	1390 520
	450 CFM/ton	CFM Watts	1714 / 1605 431 / 435	1686 / 1525 505 / 468	1550 / 1452 584 / 492	1500 / 1385 617 / 510	1390 / 1321 520 / 570	450 CFM/ton	CFM Watts	1714 431	1686 505	1550 584	1500 617	1390 520

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TEM8A0C48V41DB & TEM8A0C60V51DB AIRFLOW PERFORMANCE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
			CFM Watts	CFM Watts	CFM Watts	CFM Watts	CFM Watts			CFM Watts	CFM Watts	CFM Watts	CFM Watts	CFM Watts
3 tons	290 CFM/ton	CFM Watts	864 / 1015 80 / 96	856 / 883 119 / 121	851 / 772 170 / 141	850 / 676 217 / 160	820 / 590 276 / 182	290 CFM/ton	CFM Watts	864 76	856 119	851 168	843 219	822 276
	350 CFM/ton	CFM Watts	1037 / 1179 120 / 137	1037 / 1059 170 / 164	1040 / 957 224 / 185	1030 / 866 265 / 204	1030 / 784 334 / 221	350 CFM/ton	CFM Watts	1037 110	1037 158	1040 213	1039 271	1032 334
	400 CFM/ton	CFM Watts	1184 / 1317 160 / 180	1187 / 1207 215 / 209	1193 / 1110 275 / 233	1180 / 1024 325 / 251	1190 / 945 380 / 268	400 CFM/ton	CFM Watts	1184 149	1187 200	1193 260	1196 324	1197 393
	450 CFM/ton	CFM Watts	1334 / 1457 205 / 232	1336 / 1354 265 / 265	1343 / 1263 335 / 290	1340 / 1181 395 / 310	1340 / 1105 460 / 327	450 CFM/ton	CFM Watts	1334 198	1336 254	1343 318	1348 388	1353 461
3.5 tons	290 CFM/ton	CFM Watts	1015 / 1147 115 / 128	1000 / 1025 160 / 155	1000 / 921 205 / 176	1000 / 829 255 / 194	1000 / 746 309 / 212	290 CFM/ton	CFM Watts	1003 103	1002 149	1004 203	1002 260	992 322
	350 CFM/ton	CFM Watts	1210 / 1341 165 / 188	1210 / 1231 220 / 218	1210 / 1136 380 / 241	1210 / 1050 335 / 260	1210 / 971 395 / 277	350 CFM/ton	CFM Watts	1209 157	1212 208	1218 269	1222 334	1224 403
	400 CFM/ton	CFM Watts	1380 / 1503 195 / 252	1380 / 1403 285 / 286	1390 / 1314 355 / 312	1390 / 1233 420 / 332	1390 / 1159 485 / 349	400 CFM/ton	CFM Watts	1384 217	1386 275	1393 340	1397 412	1402 487
	450 CFM/ton	CFM Watts	1560 / 1667 295 / 332	1560 / 1575 365 / 369	1570 / 1492 440 / 398	1570 / 1416 515 / 421	1579 / 1345 595 / 439	450 CFM/ton	CFM Watts	1563 293	1563 362	1566 429	1566 507	1564 588
4 tons	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1144 138	1147 188	1152 247	1155 309	1154 376
	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1384 217	1386 275	1393 340	1397 412	1402 487
	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1589 305	1588 376	1591 444	1589 522	1585 604
	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1800 419	1794 509	1791 575	1773 660	1745 749
5 tons †	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1435 237	1436 297	1442 364	1446 437	1450 514
	350 † CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 † CFM/ton	CFM Watts	1747 388	1742 472	1740 539	1728 623	1707 710
	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2015 559	2007 679	1995 739	1951 810	1877 810
	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2125 641	2117 779	2100 810	2038 810	1932 810

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TEM8A0D48V41DB & TEM8A0D60V51DB AIRFLOW PERFORMANCE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3 tons	290 CFM/ton	CFM Watts	859 / 1010 73 / 92	880 / 880 110 / 110	868 / 771 153 / 125	862 / 675 200 / 141	857 / 588 248 / 159	290 CFM/ton	CFM Watts	859 73	880 110	868 153	862 200	857 248
	350 CFM/ton	CFM Watts	1042 / 1173 107 / 131	1058 / 1056 148 / 151	1054 / 955 194 / 167	1053 / 864 246 / 180	1047 / 782 298 / 194	350 CFM/ton	CFM Watts	1042 107	1058 148	1054 194	1053 246	1047 298
	400 CFM/ton	CFM Watts	1214 / 1310 150 / 172	1215 / 1202 194 / 172	1222 / 1107 247 / 211	1225 / 1022 299 / 224	1215 / 943 352 / 236	400 CFM/ton	CFM Watts	1214 150	1215 194	1222 247	1225 299	1215 352
	450 CFM/ton	CFM Watts	1350 / 1448 188 / 223	1338 / 1349 239 / 247	1360 / 1260 292 / 265	1363 / 1178 349 / 279	1361 / 1103 409 / 291	450 CFM/ton	CFM Watts	1350 188	1338 239	1360 292	1363 349	1361 409
3.5 tons	290 CFM/ton	CFM Watts	1007 / 1141 99 / 122	1024 / 1022 140 / 122	1018 / 919 185 / 158	1017 / 827 236 / 171	1010 / 744 288 / 186	290 CFM/ton	CFM Watts	1007 99	1024 140	1018 185	1017 236	1010 288
	350 CFM/ton	CFM Watts	1222 / 1333 150 / 180	1225 / 1227 196 / 202	1232 / 1133 246 / 219	1235 / 1048 301 / 323	1230 / 970 358 / 245	350 CFM/ton	CFM Watts	1222 150	1225 196	1232 246	1235 301	1230 358
	400 CFM/ton	CFM Watts	1421 / 1495 211 / 242	1429 / 1398 268 / 267	1430 / 1310 323 / 285	1437 / 1231 386 / 300	1451 / 1157 454 / 311	400 CFM/ton	CFM Watts	1421 211	1429 268	1430 323	1437 386	1451 454
	450 CFM/ton	CFM Watts	1583 / 1657 275 / 320	1519 / 1569 334 / 346	1592 / 1488 394 / 367	1588 / 1413 457 / 383	1586 / 1343 524 / 395	450 CFM/ton	CFM Watts	1583 275	1519 334	1592 394	1588 457	1586 524
4 tons	290 CFM/ton	CFM Watts	1155 / 1297 133 / 167	1164 / 1188 177 / 189	1166 / 1092 226 / 206	1168 / 1006 279 / 219	1162 / 927 334 / 231	290 CFM/ton	CFM Watts	1155 133	1164 226	1166 226	1168 279	1162 334
	350 CFM/ton	CFM Watts	1431 / 1516 216 / 254	1421 / 1420 264 / 276	1408 / 1334 313 / 295	1402 / 1255 369 / 309	1408 / 1181 435 / 321	350 CFM/ton	CFM Watts	1431 216	1421 264	1408 313	1402 369	1408 435
	400 CFM/ton	CFM Watts	1635 / 1700 302 / 343	1625 / 1614 360 / 259	1617 / 1534 418 / 391	1610 / 1461 479 / 407	1592 / 1392 535 / 420	400 CFM/ton	CFM Watts	1635 302	1625 360	1617 418	1610 479	1592 535
	450 CFM/ton	CFM Watts	1818 / 1886 388 / 458	1829 / 1808 458 / 487	1815 / 1734 527 / 511	1787 / 1666 598 / 529	1760 / 1602 675 / 544	450 CFM/ton	CFM Watts	1818 388	1650 458	1815 527	1787 598	1760 675
5 tons †	290 CFM/ton	CFM Watts	1453 / 1562 224 / 272	1466 / 1468 278 / 297	1463 / 1384 334 / 317	1465 / 1306 393 / 332	1464 / 1234 456 / 344	290 CFM/ton	CFM Watts	1453 224	1423 278	1463 334	1465 393	1464 456
	350 † CFM/ton	CFM Watts	1779 / 1840 360 / 427	1779 / 1759 428 / 456	1767 / 1684 494 / 478	1746 / 1615 563 / 496	1729 / 1549 638 / 510	350 † CFM/ton	CFM Watts	1766 360	1627 428	1767 494	1746 563	1729 638
	400 CFM/ton	CFM Watts	2043 / 2074 537 / 600	2019 / 2002 609 / 631	1982 / 1934 656 / 657	1916 / 1871 682 / 678	1822 / 272 687 / 380	400 CFM/ton	CFM Watts	2043 537	2019 609	1982 656	1916 682	1822 687
	450 CFM/ton	CFM Watts	2141 / 2112 584 / 658	2090 / 2041 673 / 688	2047 / 1975 760 / 712	1953 / 1207 851 / 417	1792 / 337 945 / 372	450 CFM/ton	CFM Watts	2141 584	1677 673	2047 760	1953 851	1792 945

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

Minimum Airflow CFM

TEM8A0B24V21DB, TEM8A0B30V31DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	650	600
BAYHTR1508BRK, BAYHTR1508LUG	850	700
BAYHTR1510BRK, BAYHTR1510LUG	850	700
BAYHTR1517BRK	1000	850
BAYHTR3510LUG	850	700
BAYHTR3517LUG	1000	850

TEM8A0C36V31DB, TEM8A0C42V41DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	675	675
BAYHTR1508BRK, BAYHTR1508LUG	950	900
BAYHTR1510BRK, BAYHTR1510LUG	950	900
BAYHTR1517BRK	950	900
BAYHTR3510LUG	950	900
BAYHTR3517LUG	1050	950
BAYHTR1523BRK	1500	1300

TEM8A0C48V41D, TEM8A0C60V51D		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	900	800
BAYHTR1508BRK, BAYHTR1508LUG	1200	1000
BAYHTR1510BRK, BAYHTR1510LUG	1350	1000
BAYHTR1517BRK	1400	1100
BAYHTR3510LUG	1200	1000
BAYHTR3517LUG	1400	1100
BAYHTR1523BRK	1430	1300
BAYHTR1525BRK	1850	1600

TEM8A0D48V41DB, TEM8A0D60V51DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	900	800
BAYHTR1508BRK, BAYHTR1508LUG	1200	1000
BAYHTR1510BRK, BAYHTR1510LUG	1200	1000
BAYHTR1517BRK	1400	1100
BAYHTR3510LUG	1200	1000
BAYHTR3517LUG	1400	1100
BAYHTR1523BRK	1400	1300
BAYHTR1525BRK	1600	1400

Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR3510	3
1200	0.01	0.04	0.05	0.10	BAYHTR3515	3
1100	0.01	0.03	0.05	0.09	BAYHTR1517	3
1000	0.01	0.03	0.04	0.09	BAYHTR1522	4
900	0.01	0.03	0.04	0.08	BAYHTR1523	4
800	0.01	0.03			BAYHTR3517	3
700	0.01	0.02			BAYHTR1525	4
600	0.01	0.02				

Subcooling Adjustment

System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM8A0C36V31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM8A0B24V21 TEM8A0B30V31	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM8A0B30V31 TEM8A0C36V31 TEM8A0C42V41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees

All other matches must be charged per the nameplate charging instructions

Subcooling Adjustment for TEM8A0C48V41 & TEM8A0C60V51

Sub-Cooling Charge Specification For AHRI Rated Performance		
OD Equipment	Up Flow / Horizontal	Down Flow
AC UNIT	OD Name Plate	OD Name Plate
HP UNIT ≤ 3.5 Tons	OD Name Plate	OD Name Plate + 4 Degrees
HP UNIT = 4 and 5 Tons	OD Name Plate	OD Name Plate

Manufacturer: Bryant

Model: 40MBAA

WIRELESS REMOTE CONTROLLER

1. A wireless remote controller is supplied for setting airflow. Please refer to the installation manual in HVAC Partners for setting airflow.
2. The Infrared receiver is located inside the control box of the indoor Air Handler and can be relocated if necessary.



Fig. 5 — Wireless Remote Controller

AIR FLOW DATA

Table 6 — Air Flow Data

SYSTEM SIZE		24K (208/230V)	36K (208/230V)	48K (208/230V)
Airflow** (CFM)	High	882	1,176	1,412
	Medium	765	1,000	1,294
	Low	588	824	1,176

Airflow values obtained at AHRI 210/240 rating conditions.

**Measured at rated static pressure:

24K: 0.1 in. WG (25pa)

36K: 0.15 in. WG (37pa)

48K: 0.2 in. WG (50pa)

SETTING STATIC PRESSURE AND AIRFLOW

The indoor fan coil units can be programmed to have different static pressures settings or airflows; the factory default setting is SP1. Follow the next steps to set the **static pressure** or **Automatic Airflow** using the Wireless Remote Controller according to the installation conditions.

- The external static pressure can be manually changed to the fan curves SP1, SP2, SP3, SP4.
- Choose the Automatic Airflow “AF” adjustment function to automatically identify the static pressure and regulate the airflow amount.

Follow these instructions to configure:

1. Ensure the test run is done with a dry coil. If the coil is not dry, run the unit for 2 hours in the **FAN ONLY** mode to dry the coil.
2. Check that both the power supply wiring and the duct installation have been completed. Check that the air vent is properly positioned. Check that the air filter is properly attached to the air return side passage of the unit.
3. If there is more than one air inlet and/or outlet, adjust the dampers so that the airflow rate of each air inlet and outlet conforms to the designed airflow rate. Ensure the unit is in **FAN ONLY** mode.

The wireless remote controller is required to setup the static pressure of the indoor air handler units.

NOTE: When a system is using the 24V interface built-in, the indoor unit’s fan speed defaults to **AUTO** with the indoor unit’s default logic.

The external static pressure should be selected using the wireless remote controller (RG57F3(B)/BGEFU1), included with the indoor unit, by pointing it toward the indoor unit’s Infrared Receiver typically located inside the control box.

- a. Before using the service functions of the remote, turn **OFF** the indoor unit with the remote.
- b. Turn off the power to the indoor and outdoor units for 3 minutes.
- c. Turn the power back on.
- d. Remove the batteries from the RG57 wireless remote controller and wait for the remote screen to clear or press any button and the screen clears.
- e. Reinstall the batteries.
- f. Within 30 seconds of replacing the batteries, simultaneously press **MODE** and **TIMER ON** for five (5) seconds. You are now in the **SERVICE FUNCTION** mode – and the remote display reads **F1**.
- g. Manual static pressure or Automatic Airflow adjustment selection:
 1. For manual static pressure selection, press the **DOWN** arrow in the center of the remote (labeled **TEMP**) to display **E9**. Press **MODE** to set the external static pressure/airflow rate in the range of 1-4 (airflow increases quickly). Press **TIMER ON** to confirm. The values on the remote controller (1,2,3,4) correlate directly to the static pressure curves SP1, SP2, SP3, SP4 (see “**FAN PERFORMANCES AT VARYING STATIC PRESSURES**” on page 13).
 2. If choosing the **AUTOMATIC AIRFLOW ADJUSTMENT** function, with **F1** in the remote display, press the **DOWN** arrow once and **d4** appears. Press **TIMER ON** to confirm. **AF** appears in the unit’s LED display. The system starts the fan for the airflow automatic adjustment. The **ON** indicator flashes when the fan runs during the **AUTOMATIC AIRFLOW ADJUSTMENT**. After 3 to 6 minutes, the system stops operating once the **AUTOMATIC AIRFLOW ADJUSTMENT** is complete.
- h. Remove the remote controller battery, and then re-insert the battery after the remote controller screen goes blank. The remote controller exits the **SERVICE FUNCTION** mode.

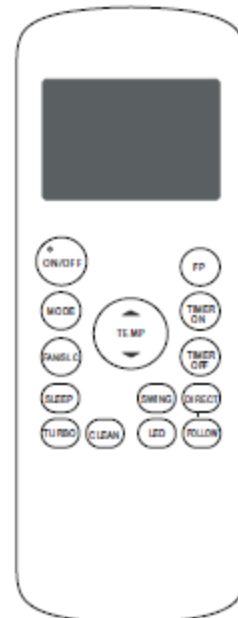


Fig. 8 — Remote Controller

FAN PERFORMANCES AT VARYING STATIC PRESSURES

Table 10 — Static Pressure at the Rated Point and Static Pressure Range

AHU	FAN COIL BLOWER PERFORMANCE CFM (DRY COIL WITHOUT FILTER OR ELECTRIC HEAT)										
	Model Number	Static Pressure	Speed	EXTERNAL STATIC PRESSURE (in.w.c.)							
				0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
24	SP1	High	1,076	975	853	675	502	200	/	/	/
		Medium	942	822	658	465	184	/	/	/	/
		Low	797	648	437	100	/	/	/	/	/
	SP2	High	1,250	1,175	1,075	965	815	650	475	200	/
		Medium	1,185	1,095	996	855	685	512	291	/	/
		Low	1,100	1,005	892	712	558	322	/	/	/
	SP3	High	1,490	1,415	1,334	1,250	1,156	1,028	880	750	600
		Medium	1,375	1,294	1,206	1,100	988	822	676	500	284
		Low	1,285	1,200	1,105	995	845	685	525	252	/
	SP4	High	1,825	1,756	1,670	1,592	1,515	1,450	1,360	1,250	1,120
		Medium	1,630	1,556	1,480	1,400	1,310	1,215	1,105	950	825
		Low	1,525	1,450	1,372	1,280	1,190	1,074	935	785	650
36	SP1	High	1,335	1,270	1,165	1,062	950	810	645	450	240
		Medium	1,185	1,100	990	845	685	520	335	/	/
		Low	1,020	915	775	600	405	/	/	/	/
	SP2	High	1,475	1,405	1,320	1,230	1,125	990	855	715	570
		Medium	1,340	1,260	1,172	1,055	920	775	630	460	275
		Low	1,205	1,115	1,011	870	715	555	380	/	/
	SP3	High	1,648	1,585	1,515	1,440	1,354	1,235	1,125	990	875
		Medium	1,510	1,440	1,362	1,275	1,168	1,040	910	780	645
		Low	1,385	1,305	1,215	1,115	986	855	727	580	421
	SP4	High	1,815	1,733	1,663	1,605	1,528	1,435	1,346	1,235	1,130
		Medium	1,668	1,606	1,539	1,465	1,380	1,275	1,178	1,050	941
		Low	1,558	1,481	1,406	1,350	1,219	1,100	986	875	748
48	SP1	High	1,611	1,530	1,462	1,375	1,276	1,170	1,052	925	831
		Medium	1,498	1,417	1,333	1,225	1,125	998	900	775	631
		Low	1,375	1,297	1,212	1,110	994	860	716	558	389
	SP2	High	1,774	1,701	1,642	1,570	1,504	1,420	1,313	1,202	1,081
		Medium	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
		Low	1,558	1,481	1,406	1,323	1,220	1,110	986	880	748
	SP3	High	1,868	1,805	1,736	1,675	1,604	1,532	1,433	1,330	1,211
		Medium	1,781	1,709	1,649	1,582	1,511	1,420	1,308	1,208	1,081
		Low	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
	SP4	High	2,024	1,974	1,919	1,850	1,795	1,726	1,652	1,560	1,466
		Medium	1,942	1,872	1,818	1,765	1,697	1,620	1,534	1,455	1,345
		Low	1,825	1,770	1,708	1,648	1,578	1,492	1,400	1,295	1,180

>300CFM <450CFM

NOTES:

1. Airflow based upon dry coil at 230v without filter or electric heater.
2. To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 48 size must have supply static greater than 0.20 in wc.
3. Airflow above 400 cfm/ton could result in condensate blowing off coil or splashing out of drain pan.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Bryant

Model: CNPV

COOLING CAPACITIES (MBH) - PURON REFRIGERANT

CNPV UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
1814	450	72 (22)	31.00	15.20	0.00	28.60	13.90	0.00	25.80	12.50	0.00	22.80	11.10	0.00	19.30	9.60	0.00
		67 (19)	26.00	15.70	0.00	23.50	14.30	0.01	20.70	12.80	0.01	17.60	11.30	0.01	14.10	9.80	0.01
		62 (17)	21.50	16.00	0.01	18.90	14.50	0.01	16.10	13.00	0.01	13.00	11.50	0.01	10.10	10.10	0.03
	600	72 (22)	38.30	18.70	0.00	35.30	17.10	0.00	32.00	15.50	0.00	28.20	13.80	0.00	23.90	12.00	0.01
		67 (19)	32.30	19.50	0.01	29.20	17.80	0.02	25.70	16.10	0.02	21.80	14.30	0.02	17.50	12.40	0.02
		62 (17)	26.70	20.10	0.02	23.50	18.40	0.02	20.00	16.60	0.02	16.20	14.80	0.02	12.90	12.90	0.06
	750	72 (22)	44.30	21.50	0.00	40.90	19.90	0.00	37.00	18.10	0.00	32.70	16.10	0.02	27.70	14.00	0.02
		67 (19)	37.40	22.80	0.03	33.90	20.90	0.03	29.90	19.00	0.03	25.40	16.90	0.03	20.40	14.70	0.04
		62 (17)	31.10	23.80	0.04	27.40	21.80	0.04	23.40	19.80	0.04	19.10	17.70	0.04	15.60	15.60	0.10
1917	450	72 (22)	43.72	21.88	0.00	40.49	20.18	0.00	36.83	18.36	0.00	32.67	16.42	0.00	27.95	14.37	0.00
		67 (19)	36.66	22.46	0.00	33.32	20.65	0.00	29.55	18.73	0.00	25.28	16.69	0.00	20.45	14.55	0.00
		62 (17)	30.28	22.93	0.01	26.83	21.02	0.01	23.00	19.03	0.01	18.79	16.98	0.01	14.88	14.88	0.04
	600	72 (22)	53.61	26.56	0.00	49.70	24.60	0.00	45.23	22.48	0.00	40.13	20.19	0.01	34.31	17.72	0.01
		67 (19)	45.00	27.67	0.01	40.96	25.56	0.01	36.35	23.28	0.01	31.10	20.84	0.01	25.13	18.26	0.01
		62 (17)	37.22	28.61	0.01	33.03	26.36	0.01	28.38	24.00	0.01	23.28	21.54	0.02	19.00	19.00	0.07
	750	72 (22)	61.74	30.45	0.00	57.28	28.32	0.00	52.17	25.97	0.01	46.32	23.41	0.02	39.65	20.66	0.02
		67 (19)	51.91	32.14	0.02	47.30	29.82	0.02	42.02	27.29	0.02	35.98	24.55	0.02	29.10	21.62	0.02
		62 (17)	42.99	33.62	0.02	38.23	31.14	0.02	32.93	28.50	0.02	27.20	25.75	0.03	22.72	22.72	0.10
2414 2417	600	72 (22)	39.00	19.00	0.00	36.00	17.50	0.00	32.70	15.90	0.00	28.80	14.10	0.00	24.60	12.30	0.01
		67 (19)	32.80	19.80	0.01	29.80	18.20	0.01	26.30	16.40	0.01	22.40	14.60	0.02	18.10	12.60	0.02
		62 (17)	27.20	20.50	0.02	24.00	18.70	0.02	20.50	16.90	0.02	16.60	15.00	0.02	13.10	13.10	0.05
	800	72 (22)	47.10	22.80	0.00	43.60	21.10	0.00	39.60	19.30	0.00	35.00	17.30	0.02	29.90	15.10	0.02
		67 (19)	39.80	24.20	0.03	36.10	22.30	0.03	32.00	20.30	0.03	27.30	18.10	0.03	22.00	15.90	0.03
		62 (17)	33.10	25.40	0.03	29.30	23.40	0.03	25.10	21.20	0.03	20.50	19.00	0.04	16.70	16.70	0.09
	1000	72 (22)	53.40	25.90	0.00	49.50	24.20	0.00	45.10	22.10	0.02	40.00	19.90	0.03	34.10	17.50	0.04
		67 (19)	45.30	27.90	0.05	41.20	25.90	0.05	36.60	23.70	0.05	31.30	21.30	0.05	25.20	18.70	0.05
		62 (17)	37.80	29.60	0.05	33.60	27.40	0.05	28.80	25.10	0.05	23.80	22.70	0.06	20.00	20.00	0.13
3014 3017	750	72 (22)	48.00	23.50	0.00	44.00	21.40	0.00	39.70	19.20	0.00	34.80	17.00	0.00	29.40	14.60	0.01
		67 (19)	40.30	24.20	0.01	36.20	22.00	0.02	31.80	19.70	0.02	26.80	17.40	0.02	21.40	15.00	0.02
		62 (17)	33.20	24.80	0.02	29.10	22.50	0.02	24.60	20.20	0.02	19.90	17.90	0.02	15.60	15.60	0.05
	1000	72 (22)	58.70	28.50	0.00	53.90	26.10	0.00	48.50	23.60	0.00	42.50	20.90	0.02	35.80	18.10	0.03
		67 (19)	49.40	29.90	0.03	44.40	27.30	0.03	38.90	24.60	0.04	32.90	21.70	0.04	26.20	18.80	0.04
		62 (17)	40.80	30.90	0.04	35.80	28.20	0.04	30.30	25.40	0.04	24.60	22.60	0.05	19.90	19.90	0.10
	1250	72 (22)	67.40	32.70	0.00	61.90	30.10	0.00	55.70	27.30	0.02	48.80	24.20	0.04	41.10	21.00	0.05
		67 (19)	56.80	34.70	0.05	51.20	31.80	0.06	44.90	28.70	0.06	37.80	25.50	0.06	30.10	22.20	0.06
		62 (17)	47.10	36.30	0.06	41.30	33.20	0.06	35.00	30.10	0.06	28.60	27.00	0.07	23.70	23.70	0.14
3117	750	72 (22)	74.50	37.07	0.00	68.51	33.85	0.00	61.86	30.50	0.00	54.41	27.00	0.00	46.04	23.35	0.00
		67 (19)	62.13	37.73	0.01	56.03	34.37	0.01	49.24	30.87	0.01	41.66	27.24	0.01	32.96	23.39	0.01
		62 (17)	50.98	38.20	0.01	44.75	34.72	0.01	37.95	31.17	0.01	30.17	27.36	0.01	23.70	23.70	0.06
	1000	72 (22)	92.35	45.51	0.00	85.01	41.76	0.00	76.78	37.78	0.00	67.46	33.54	0.01	57.03	29.08	0.01
		67 (19)	77.15	46.96	0.02	69.62	42.94	0.02	61.18	38.71	0.02	51.69	34.27	0.02	41.04	29.62	0.02
		62 (17)	63.39	48.06	0.02	55.66	43.85	0.02	47.21	39.53	0.02	38.21	35.15	0.02	30.59	30.59	0.08
	1250	72 (22)	107.37	52.63	0.00	98.97	48.52	0.00	89.37	44.04	0.01	78.59	39.23	0.02	66.39	34.13	0.02
		67 (19)	89.89	54.97	0.03	81.19	50.47	0.03	71.37	45.67	0.03	60.28	40.57	0.03	47.77	35.20	0.03
		62 (17)	73.97	56.83	0.03	64.99	52.05	0.03	55.22	47.14	0.03	44.93	42.16	0.04	36.94	36.94	0.11
3617 3621 3617	900	72 (22)	58.10	28.30	0.00	53.40	25.90	0.00	48.00	23.30	0.00	42.10	20.60	0.01	35.50	17.80	0.02
		67 (19)	48.90	29.50	0.02	44.00	26.90	0.03	38.50	24.20	0.03	32.50	21.30	0.03	25.90	18.40	0.03
		62 (17)	40.40	30.40	0.03	35.40	27.70	0.03	29.90	24.90	0.03	24.20	22.10	0.04	19.40	19.40	0.08
	1200	72 (22)	70.00	33.90	0.00	64.30	31.20	0.00	57.80	28.30	0.02	50.70	25.10	0.04	42.70	21.80	0.05
		67 (19)	58.90	35.90	0.05	53.10	32.90	0.05	46.50	29.70	0.05	39.30	26.40	0.06	31.20	22.90	0.06
		62 (17)	48.80	37.50	0.06	42.80	34.30	0.06	36.30	31.00	0.06	29.60	27.80	0.06	24.40	24.40	0.13
	1500	72 (22)	79.30	38.60	0.00	72.90	35.60	0.02	65.70	32.30	0.05	57.50	28.80	0.06	48.50	25.10	0.07
		67 (19)	67.00	41.30	0.08	60.40	38.00	0.08	53.00	34.40	0.08	44.70	30.70	0.08	35.50	26.80	0.09
		62 (17)	55.70	43.60	0.09	48.80	40.00	0.09	41.60	36.50	0.09	34.20	32.90	0.10	28.80	28.80	0.18
3717	900	72 (22)	86.45	42.79	0.00	79.79	39.28	0.00	72.26	35.55	0.00	63.72	31.59	0.00	54.22	27.47	0.00
		67 (19)	72.26	43.90	0.01	65.40	40.18	0.01	57.69	36.26	0.01	49.03	32.14	0.01	39.27	27.83	0.01
		62 (17)	59.44	44.77	0.01	52.40	40.88	0.01	44.62	36.85	0.01	36.17	32.73	0.01	28.45	28.45	0.06
	1200	72 (22)	106.02	52.03	0.00	97.94	48.01	0.00	88.72	43.65	0.00	78.38	39.00	0.01	66.68	34.06	0.01
		67 (19)	88.80	54.21	0.02	80.47	49.85	0.02	71.05	45.21	0.02	60.40	40.28	0.02	48.31	35.05	0.02
		62 (17)	73.18	55.98	0.02	64.58	51.37	0.02	55.14	46.59	0.02	44.93	41.66	0.02	36.59	36.59	0.08
	1500	72 (22)	122.09	59.72	0.00	112.86	55.34	0.00	102.29	50.48	0.02	90.55	45.34	0.02	77.08	39.79	0.03
		67 (19)	102.46	63.03	0.03	92.95	58.22	0.03	82.20	53.07	0.03	69.94	47.52	0.03	55.95	41.57	0.03
		62 (17)	84.62	65.86	0.03	74.82	60.74	0.03	64.08	55.41	0.03	52.61	49.87	0.04	43.79	43.79	0.12

Legend:

CFM – Cubic Ft. per Minute EWB – Entering Wet Bulb LWB – Leaving Wet Bulb TC – Gross Cooling Capacity 1000 Btu/h

SHC – Gross Sensible Capacity 1000 Btu/h BF – Bypass Factor MBH – 1000 Btu/h

See notes on next page.

COOLING CAPACITIES (MBH) - PURON REFRIGERANT

CNPV UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
4217 4221 4224 T4221	1050	72 (22)	74.40	36.30	0.00	68.10	33.10	0.00	61.20	29.70	0.00	53.50	26.20	0.01	45.00	22.60	0.02
		67 (19)	62.30	37.60	0.02	56.00	34.20	0.03	48.90	30.60	0.03	41.20	27.00	0.03	32.80	23.30	0.03
		62 (17)	51.40	38.60	0.03	44.90	35.00	0.03	37.90	31.40	0.03	30.60	27.80	0.04	24.40	24.40	0.08
	1400	72 (22)	90.20	43.80	0.00	82.60	40.10	0.00	74.10	36.20	0.01	64.70	32.00	0.04	54.40	27.60	0.05
		67 (19)	75.80	46.00	0.05	68.00	42.00	0.05	59.40	37.70	0.06	50.00	33.40	0.06	39.60	28.90	0.06
		62 (17)	62.60	47.70	0.06	54.70	43.50	0.06	46.20	39.20	0.06	37.50	35.00	0.07	30.70	30.70	0.13
	1750	72 (22)	103.00	50.00	0.00	94.30	46.00	0.00	84.60	41.50	0.05	73.90	36.80	0.06	62.00	32.00	0.07
		67 (19)	86.70	53.10	0.08	77.80	48.60	0.08	68.00	43.90	0.08	57.10	39.00	0.08	45.20	33.90	0.09
		62 (17)	71.70	55.70	0.09	62.70	50.90	0.09	53.10	46.20	0.09	43.40	41.50	0.10	36.30	36.30	0.18
4324	1050	72 (22)	96.72	47.64	0.00	89.31	43.85	0.00	80.91	39.78	0.00	71.39	35.44	0.00	60.74	30.89	0.01
		67 (19)	80.93	49.26	0.01	73.30	45.20	0.01	64.67	40.88	0.01	54.97	36.34	0.01	43.99	31.53	0.01
		62 (17)	66.64	50.56	0.01	58.77	46.28	0.01	50.10	41.84	0.01	40.70	37.29	0.02	32.63	32.63	0.07
	1400	72 (22)	117.07	57.30	0.00	108.20	53.03	0.00	98.03	48.31	0.01	86.74	43.33	0.02	73.81	37.96	0.02
		67 (19)	98.18	60.23	0.03	89.03	55.55	0.03	78.69	50.55	0.03	66.93	45.19	0.03	53.54	39.46	0.03
		62 (17)	81.03	62.70	0.03	71.60	57.72	0.03	61.25	52.56	0.03	50.15	47.21	0.03	41.46	41.46	0.11
	1750	72 (22)	133.38	65.28	0.00	123.30	60.58	0.02	111.98	55.48	0.03	99.21	50.01	0.04	84.49	44.04	0.04
		67 (19)	112.09	69.50	0.04	101.79	64.41	0.05	90.14	58.95	0.05	76.76	52.99	0.05	61.46	46.55	0.05
		62 (17)	92.72	73.26	0.05	82.16	67.85	0.05	70.58	62.18	0.05	58.38	56.24	0.06	49.33	49.33	0.15
4821 4824 T4821	1200	72 (22)	79.30	38.70	0.00	72.90	35.40	0.00	65.70	31.90	0.00	57.70	28.20	0.00	48.80	24.40	0.01
		67 (19)	66.60	40.20	0.02	60.00	36.60	0.02	52.70	32.90	0.02	44.60	29.10	0.02	35.70	25.10	0.03
		62 (17)	55.00	41.30	0.03	48.30	37.60	0.03	40.90	33.80	0.03	33.10	30.00	0.03	26.30	26.30	0.07
	1600	72 (22)	96.00	46.60	0.00	88.30	42.90	0.00	79.60	38.90	0.00	69.90	34.50	0.03	59.10	30.00	0.04
		67 (19)	80.90	49.20	0.04	72.90	45.00	0.04	64.10	40.70	0.05	54.20	36.10	0.05	43.30	31.40	0.05
		62 (17)	67.00	51.20	0.05	58.80	46.80	0.05	49.90	42.30	0.05	40.70	37.90	0.05	33.30	33.30	0.11
	2000	72 (22)	109.40	53.10	0.00	100.70	49.10	0.00	90.90	44.60	0.03	79.90	39.80	0.05	67.50	34.70	0.06
		67 (19)	92.40	56.70	0.06	83.40	52.20	0.07	73.30	47.40	0.07	62.00	42.20	0.07	49.50	36.90	0.07
		62 (17)	76.70	59.70	0.07	67.50	54.90	0.08	57.40	49.90	0.08	47.20	44.90	0.08	39.50	39.50	0.16
6024 T6024	1600	72 (22)	103.20	50.40	0.00	94.40	45.90	0.00	84.80	41.10	0.00	74.10	36.30	0.00	62.40	31.20	0.02
		67 (19)	86.40	52.10	0.02	77.50	47.20	0.02	67.80	42.30	0.02	57.10	37.20	0.03	45.40	32.10	0.03
		62 (17)	71.20	53.30	0.03	62.20	48.30	0.03	52.40	43.30	0.03	42.30	38.30	0.03	33.50	33.50	0.07
	2000	72 (22)	120.70	58.70	0.00	110.40	53.60	0.00	99.00	48.20	0.00	86.40	42.50	0.02	72.60	36.70	0.03
		67 (19)	101.20	61.30	0.03	90.70	55.70	0.04	79.20	50.00	0.04	66.60	44.10	0.04	52.80	38.10	0.05
		62 (17)	83.40	63.20	0.05	72.80	57.40	0.05	61.40	51.60	0.05	49.70	46.00	0.05	40.30	40.30	0.11
	2400	72 (22)	135.60	65.80	0.00	124.10	60.30	0.00	111.20	54.40	0.01	97.00	48.00	0.04	81.30	41.50	0.05
		67 (19)	113.90	69.30	0.05	102.10	63.20	0.06	89.10	56.90	0.06	74.80	50.30	0.06	59.20	43.60	0.06
		62 (17)	94.10	72.10	0.06	82.10	65.70	0.06	69.30	59.30	0.06	56.40	53.00	0.07	46.50	46.50	0.14
6124 T6124	1600	72 (22)	146.13	71.69	0.00	134.50	65.77	0.00	121.56	59.54	0.00	106.83	52.86	0.00	90.32	45.83	0.01
		67 (19)	122.06	74.12	0.02	110.18	67.82	0.02	96.85	61.17	0.02	81.83	54.15	0.02	64.91	46.78	0.02
		62 (17)	100.28	76.03	0.02	88.07	69.40	0.02	74.72	62.59	0.02	60.46	55.67	0.02	48.56	48.56	0.08
	2000	72 (22)	169.63	82.84	0.00	156.39	76.39	0.00	141.33	69.41	0.01	124.36	61.86	0.02	105.10	53.83	0.02
		67 (19)	142.02	86.75	0.03	128.36	79.72	0.03	112.89	72.20	0.03	95.38	64.18	0.03	75.60	55.70	0.03
		62 (17)	116.90	89.93	0.03	102.76	82.43	0.03	87.41	74.75	0.03	71.17	66.88	0.04	58.57	58.57	0.11
	2400	72 (22)	189.44	92.42	0.00	174.81	85.58	0.00	158.22	77.98	0.02	139.30	69.76	0.03	117.75	60.94	0.04
		67 (19)	158.99	97.85	0.04	143.83	90.25	0.04	126.61	82.05	0.04	107.02	73.24	0.05	84.86	63.87	0.05
		62 (17)	131.10	102.40	0.05	115.46	94.29	0.05	98.49	85.91	0.05	80.79	77.29	0.06	67.60	67.60	0.14

Legend:

CFM – Cubic Ft. per Minute EWB – Entering Wet Bulb LWB – Leaving Wet Bulb TC – Gross Cooling Capacity 1000 Btuh
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor MBH – 1000 Btuh
 See notes on following page.

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB}\text{)}$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$
 Where h_{EWB} = enthalpy of air entering coil
3. SHC is based on 80°F (27°C) db temperature of air entering the evaporator coil.
 Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.
 Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8-in. suction tube connection adapter is available as accessory.
8. The CNPVP, CNPVT and CNPVU coils can be used in any properly designed system using Puron refrigerant.
9. CNRVU coils can be used in any properly designed system using R-22 refrigerant.
10. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
11. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

BYPASS FACTOR	ENTERING AIR DRY BULB TEMPERATURE °F (°C)					
	79 (26)	78 (26)	77 (25)	76 (24)	75 (24)	Under 75 (24)
	81 (27)	82 (28)	83 (28)	84 (29)	84 (29)	Above 85 (29)
Correction Factor						
0.10	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

COOLING CAPACITIES (MBH) - R-22 REFRIGERANT

CNRV UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
			TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
1814	450	72 (22)	28.60	13.90	0.00	26.60	12.90	0.00	24.20	11.80	0.00	21.60	10.60	0.00	18.60	9.40	0.00
		67 (19)	24.20	14.80	0.01	22.10	13.70	0.01	19.70	12.50	0.01	16.80	11.20	0.01	13.50	9.70	0.01
		62 (17)	20.20	15.50	0.01	18.00	14.30	0.01	15.40	13.00	0.01	12.50	11.70	0.01	10.20	10.20	0.08
	600	72 (22)	33.70	16.40	0.00	31.40	15.30	0.00	28.70	14.10	0.00	25.60	12.80	0.01	22.00	11.40	0.01
		67 (19)	28.70	17.80	0.02	26.20	16.60	0.02	23.40	15.30	0.02	20.10	13.80	0.02	16.30	12.20	0.02
		62 (17)	24.00	19.00	0.02	21.50	17.80	0.02	18.60	16.40	0.02	15.40	14.80	0.03	13.00	13.00	0.12
	750	72 (22)	37.50	18.40	0.01	35.00	17.30	0.01	32.10	16.00	0.02	28.70	14.60	0.02	24.60	13.00	0.03
		67 (19)	32.00	20.30	0.03	29.40	19.10	0.03	26.20	17.70	0.03	22.60	16.10	0.03	18.60	14.40	0.03
		62 (17)	26.90	22.10	0.03	24.20	20.80	0.04	21.10	19.30	0.04	17.90	17.70	0.05	15.40	15.40	0.16
2414 2417	600	72 (22)	34.60	16.80	0.00	32.30	15.70	0.00	29.60	14.60	0.00	26.50	13.20	0.00	22.90	11.80	0.01
		67 (19)	29.40	18.30	0.01	27.00	17.10	0.01	24.20	15.70	0.01	20.90	14.30	0.01	17.10	12.60	0.02
		62 (17)	24.70	19.50	0.02	22.20	18.30	0.02	19.30	16.80	0.02	16.00	15.30	0.02	13.40	13.40	0.10
	800	72 (22)	39.50	19.40	0.01	37.10	18.40	0.01	34.20	17.10	0.02	30.70	15.70	0.02	26.60	14.10	0.02
		67 (19)	33.90	21.60	0.03	31.20	20.40	0.03	28.00	19.00	0.03	24.30	17.40	0.03	20.10	15.60	0.03
		62 (17)	28.60	23.70	0.03	25.80	22.30	0.03	22.60	20.80	0.04	19.30	19.10	0.05	16.80	16.80	0.16
	1000	72 (22)	43.20	21.50	0.03	40.60	20.50	0.04	37.50	19.20	0.04	33.80	17.70	0.04	29.30	16.00	0.04
		67 (19)	37.10	24.50	0.05	34.30	23.20	0.05	30.90	21.80	0.05	26.80	20.10	0.05	22.20	18.20	0.05
		62 (17)	31.50	27.30	0.05	28.60	25.90	0.05	25.30	24.30	0.06	22.30	22.30	0.11	19.60	19.60	0.21
3014 3017	750	72 (22)	45.90	22.30	0.00	42.50	20.60	0.00	38.60	18.80	0.00	34.10	16.80	0.01	28.60	14.60	0.01
		67 (19)	38.90	23.70	0.02	35.30	21.90	0.02	31.00	19.80	0.02	26.00	17.50	0.02	20.30	15.10	0.02
		62 (17)	32.30	24.80	0.02	28.30	22.80	0.02	24.00	20.60	0.02	19.30	18.30	0.03	15.90	15.90	0.12
	1000	72 (22)	53.80	26.20	0.00	49.90	24.40	0.01	45.40	22.40	0.02	40.30	20.20	0.03	34.30	17.80	0.03
		67 (19)	45.70	28.40	0.03	41.60	26.40	0.04	37.00	24.20	0.04	31.20	21.70	0.04	24.40	18.80	0.04
		62 (17)	38.30	30.40	0.04	34.00	28.20	0.04	29.00	25.80	0.04	23.80	23.20	0.06	20.00	20.00	0.16
	1250	72 (22)	59.80	29.30	0.03	55.50	27.40	0.04	50.60	25.30	0.04	44.80	22.90	0.05	38.40	20.40	0.05
		67 (19)	50.90	32.30	0.06	46.40	30.20	0.06	41.30	27.80	0.06	35.40	25.30	0.06	27.90	22.20	0.06
		62 (17)	42.70	35.10	0.06	38.30	32.90	0.06	33.10	30.30	0.07	27.70	27.50	0.09	23.70	23.70	0.21
3617 3621	900	72 (22)	53.50	26.00	0.00	49.50	24.10	0.00	45.10	22.10	0.01	40.00	19.90	0.02	33.80	17.40	0.02
		67 (19)	45.40	27.90	0.03	41.30	25.90	0.03	36.60	23.70	0.03	30.70	21.10	0.03	24.00	18.30	0.03
		62 (17)	37.90	29.70	0.03	33.50	27.40	0.03	28.50	24.90	0.03	23.20	22.30	0.05	19.30	19.30	0.15
	1200	72 (22)	61.60	30.10	0.02	57.20	28.20	0.03	52.10	26.00	0.04	46.20	23.50	0.04	39.60	20.90	0.05
		67 (19)	52.40	33.10	0.05	47.80	30.90	0.05	42.50	28.50	0.05	36.30	25.80	0.06	28.60	22.60	0.06
		62 (17)	44.00	35.90	0.06	39.40	33.60	0.06	34.00	30.90	0.06	28.30	28.00	0.08	24.10	24.10	0.20
	1500	72 (22)	67.50	33.40	0.06	62.90	31.40	0.06	57.40	29.10	0.07	50.80	26.50	0.07	43.60	23.70	0.08
		67 (19)	57.70	37.40	0.08	52.70	35.10	0.08	46.90	32.60	0.08	40.30	29.80	0.08	32.20	26.50	0.09
		62 (17)	48.60	41.20	0.08	43.70	38.80	0.09	38.30	36.10	0.09	32.90	32.90	0.13	28.30	28.30	0.25
4221 4224	1050	72 (22)	67.70	32.90	0.00	62.50	30.40	0.00	56.50	27.60	0.00	49.70	24.70	0.02	42.30	21.60	0.02
		67 (19)	57.10	35.00	0.03	51.70	32.20	0.03	45.60	29.30	0.03	38.80	26.20	0.03	30.30	22.60	0.03
		62 (17)	47.40	36.80	0.03	41.90	33.90	0.03	35.70	30.80	0.03	28.90	27.50	0.04	23.80	23.80	0.13
	1400	72 (22)	79.00	38.50	0.00	73.10	35.80	0.02	66.20	32.80	0.04	58.30	29.40	0.04	49.30	25.90	0.05
		67 (19)	66.90	41.80	0.05	60.70	38.70	0.05	53.50	35.40	0.06	45.50	31.90	0.06	36.30	28.10	0.06
		62 (17)	55.70	44.70	0.06	49.40	41.50	0.06	42.60	38.10	0.06	35.40	34.50	0.08	29.90	29.90	0.18
	1750	72 (22)	87.40	42.90	0.04	81.00	40.10	0.06	73.60	37.00	0.07	64.90	33.40	0.07	54.80	29.50	0.08
		67 (19)	74.30	47.40	0.08	67.60	44.20	0.08	59.70	40.60	0.08	50.60	36.70	0.08	40.90	32.80	0.09
		62 (17)	62.20	51.40	0.09	55.30	48.10	0.09	47.90	44.50	0.09	40.70	40.70	0.11	35.20	35.20	0.23
4821 4824	1200	72 (22)	72.40	35.20	0.00	67.30	32.70	0.00	61.20	30.00	0.00	54.20	27.00	0.01	46.30	23.70	0.02
		67 (19)	61.40	37.70	0.02	55.90	35.00	0.02	49.50	32.00	0.02	42.40	28.80	0.02	34.10	25.20	0.03
		62 (17)	51.20	40.00	0.03	45.50	37.00	0.03	39.20	33.90	0.03	32.20	30.50	0.03	26.70	26.70	0.12
	1600	72 (22)	83.80	41.00	0.00	78.00	38.40	0.02	71.30	35.40	0.03	63.30	32.10	0.03	54.00	28.50	0.04
		67 (19)	71.40	44.90	0.04	65.20	42.00	0.04	58.00	38.70	0.05	49.50	35.00	0.05	40.30	31.20	0.05
		62 (17)	59.80	48.50	0.05	53.40	45.30	0.05	46.30	41.90	0.05	39.00	38.30	0.07	33.40	33.40	0.17
	2000	72 (22)	92.10	45.50	0.04	86.00	42.90	0.05	78.70	39.80	0.05	70.10	36.40	0.06	60.00	32.50	0.06
		67 (19)	78.70	50.90	0.07	72.10	47.80	0.07	64.30	44.40	0.07	55.10	40.40	0.07	44.90	36.30	0.07
		62 (17)	66.30	55.90	0.07	59.60	52.60	0.07	52.10	48.90	0.08	44.90	44.90	0.11	39.20	39.20	0.22
6024	1600	72 (22)	93.60	45.40	0.00	86.30	41.90	0.00	77.90	38.00	0.00	68.30	33.80	0.01	58.00	29.60	0.02
		67 (19)	78.90	48.10	0.02	71.20	44.20	0.02	62.70	40.10	0.02	53.20	35.70	0.03	41.70	30.80	0.03
		62 (17)	65.40	50.40	0.03	57.70	46.30	0.03	49.20	42.00	0.03	39.60	37.40	0.04	32.50	32.50	0.12
	2000	72 (22)	106.40	51.70	0.00	98.20	47.90	0.00	88.80	43.70	0.02	78.00	39.10	0.03	65.80	34.10	0.03
		67 (19)	89.90	55.50	0.04	81.30	51.30	0.04	71.50	46.70	0.04	60.60	41.80	0.04	48.30	36.60	0.04
		62 (17)	74.70	58.90	0.04	65.90	54.40	0.04	56.60	49.70	0.05	46.50	44.80	0.06	38.90	38.90	0.16
	2400	72 (22)	116.60	57.00	0.00	107.90	53.00	0.03	97.70	48.50	0.04	85.90	43.60	0.05	72.30	38.20	0.05
		67 (19)	98.90	61.90	0.06	89.60	57.50	0.06	78.90	52.50	0.06	66.60	47.20	0.06	53.70	41.80	0.06
		62 (17)	82.30	66.40	0.06	72.90	61.70	0.06	62.70	56.70	0.07	52.60	51.60	0.08	44.70	44.70	0.19

Legend:

CFM – Cubic Ft. per Minute EWB – Entering Wet Bulb LWB – Leaving Wet Bulb TC – Gross Cooling Capacity 1000 Btuh
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor MBH – 1000 Btuh

See notes previous page.

COIL STATIC PRESSURE DROP (in. w.c.) PURON and R-22 REFRIGERANTS

UNIT SIZE	Standard CFM																	
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
1814	Dry																	
	0.078	0.114	0.156	0.198	0.253													
1917	Wet																	
	0.096	0.138	0.183	0.213	0.277													
2414	Dry																	
	0.042	0.060	0.080	0.102	0.128													
2417	Wet																	
	0.055	0.076	0.104	0.127	0.158													
2414	Dry																	
	0.070	0.103	0.143	0.182	0.233	0.290	0.354											
2417	Wet																	
	0.089	0.128	0.171	0.214	0.269	0.336	0.413											
3014	Dry																	
	0.048	0.068	0.090	0.112	0.140	0.170	0.203											
3017	Wet																	
	0.064	0.091	0.122	0.150	0.188	0.224	0.263											
3117	Dry																	
	0.065	0.097	0.135	0.173	0.223	0.278	0.339	0.405	0.478									
3617	Wet																	
	0.078	0.114	0.160	0.206	0.260	0.321	0.388	0.461	0.540									
T3617	Dry																	
	0.042	0.060	0.080	0.102	0.128	0.157	0.188	0.222	0.259									
3621	Wet																	
	0.055	0.076	0.104	0.127	0.158	0.190	0.225	0.266	0.309									
T4221	Dry																	
	0.031	0.046	0.063	0.083	0.105	0.130	0.156	0.193	0.230									
4217	Wet																	
	0.039	0.056	0.075	0.097	0.121	0.149	0.179	0.212	0.249									
4821	Dry																	
	0.043	0.061	0.082	0.103	0.128	0.157	0.189	0.221	0.259	0.299	0.341							
T4821	Wet																	
	0.056	0.079	0.107	0.133	0.166	0.200	0.236	0.276	0.315	0.361	0.413							
4824	Dry																	
	0.035	0.048	0.062	0.076	0.093	0.111	0.132	0.153	0.177	0.201	0.228							
6024	Wet																	
	0.049	0.066	0.085	0.100	0.122	0.144	0.171	0.192	0.217	0.245	0.276							
T6024	Dry																	
	0.025	0.038	0.054	0.072	0.093	0.117	0.143	0.171	0.205	0.233	0.273							
6124	Wet																	
	0.030	0.044	0.061	0.079	0.103	0.125	0.154	0.182	0.216	0.251	0.288							
T6124	Dry																	
			0.072	0.093	0.118	0.145	0.175	0.206	0.243	0.281	0.322	0.366	0.413					
6124	Wet																	
			0.079	0.102	0.130	0.159	0.192	0.228	0.26	0.303	0.348	0.396	0.446					
T6124	Dry																	
	0.030	0.041	0.054	0.066	0.082	0.099	0.118	0.137	0.158	0.180	0.205	0.231	0.259					
6024	Wet																	
	0.043	0.059	0.078	0.101	0.126	0.153	0.181	0.207	0.234	0.260	0.288	0.319	0.354					
T6024	Dry																	
				0.053	0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273
6124	Wet																	
				0.067	0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258			
T6124	Dry																	
			0.047	0.060	0.075	0.092	0.110	0.130	0.152	0.176	0.204	0.230	0.256	0.284	0.318			
6024	Wet																	
			0.053	0.067	0.085	0.104	0.125	0.147	0.172	0.200	0.228	0.259	0.292	0.327	0.365			
T6024	Dry																	
			0.015	0.046	0.057	0.069	0.094	0.100	0.119	0.124	0.140	0.158	0.175	0.195	0.214			
6124	Wet																	
			0.032	0.050	0.066	0.081	0.097	0.114	0.131	0.150	0.169	0.190	0.211	0.233	0.257			
T6124	Dry																	
					0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273
6124	Wet																	
					0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258	0.283	0.310	0.336
T6124	Dry																	
											0.130	0.140	0.160	0.180	0.200	0.220	0.240	0.270
6124	Wet																	
											0.150	0.170	0.190	0.210	0.230	0.260	0.290	0.310

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Bryant

Model: FB4CNF-P

FB4C AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FB4C 018	Tap 5	767	739	702	669	620	565
	Tap 4	614	589	534	486	436	398
	Tap 3	701	660	616	581	537	499
	Tap 2	614	589	534	486	436	398
	Tap 1	410	350	304	261	228	203
FB4C 024 & 025	Tap 5	969	936	892	835	763	676
	Tap 4	826	795	766	743	706	660
	Tap 3	826	795	766	743	706	660
	Tap 2	701	660	616	581	537	499
	Tap 1	617	592	552	507	472	420
FB4C 030	Tap 5	1108	1090	1065	1034	1009	974
	Tap 4	1026	1000	969	938	899	865
	Tap 3	1026	1000	969	938	899	865
	Tap 2	909	873	842	799	762	724
	Tap 1	826	795	757	722	674	634
FB4C 036	Tap 5	1301	1276	1245	1218	1176	1121
	Tap 4	1227	1191	1169	1143	1105	1074
	Tap 3	1227	1191	1169	1143	1105	1074
	Tap 2	1087	1062	1030	1001	966	930
	Tap 1	1026	1000	969	938	899	865
FB4C 042	Tap 5	1560	1544	1507	1464	1424	1358
	Tap 4	1419	1397	1358	1320	1279	1239
	Tap 3	1419	1397	1358	1320	1279	1239
	Tap 2	1249	1220	1184	1142	1093	1052
	Tap 1	1242	1205	1158	1110	1069	1026
FB4C 048	Tap 5	1743	1712	1679	1642	1610	1574
	Tap 4	1669	1634	1599	1564	1531	1499
	Tap 3	1669	1634	1599	1564	1531	1499
	Tap 2	1452	1413	1377	1339	1308	1271
	Tap 1	1300	1256	1221	1182	1142	1101
FB4C 060	Tap 5	1897	1867	1836	1808	1774	1736
	Tap 4	1817	1785	1757	1724	1693	1655
	Tap 3	1817	1785	1757	1724	1693	1655
	Tap 2	1657	1621	1589	1557	1518	1474
	Tap 1	1443	1412	1377	1332	1286	1243
FB4C 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

- Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 036, 3 element heater sizes 042 through 061). For FB4C models, airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in. wc. Horizontal applications of 042 - 061 sizes must have supply static greater than 0.20 in. wc.
- Airflow above 400 cfm/ton on 048-061 size could result in condensate blowing off coil or splashing out of drain pan.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

FB4C Unit Size	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
			TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
018	525	72 / 22	41	20	0.00	37	17	0.00	32	15	0.00	27	13	0.02	21	11	0.03
		67 / 19	33	20	0.03	29	18	0.03	24	16	0.03	19	13	0.03	13	11	0.04
		62 / 17	26	20	0.03	22	18	0.03	18	16	0.04	14	14	0.10	11	11	0.26
	600	72 / 22	45	22	0.00	40	19	0.00	35	17	0.01	30	15	0.03	23	12	0.04
		67 / 19	37	22	0.04	32	20	0.04	27	17	0.04	21	15	0.04	15	12	0.05
		62 / 17	29	22	0.04	24	20	0.04	19	18	0.05	15	15	0.12	13	13	0.28
	675	72 / 22	49	24	0.00	44	21	0.00	38	19	0.03	32	16	0.04	25	13	0.05
		67 / 19	40	24	0.05	35	22	0.05	29	19	0.05	23	16	0.05	16	14	0.06
		62 / 17	32	25	0.05	27	22	0.05	21	19	0.06	17	17	0.14	14	14	0.29
024	700	72 / 22	43	22	0.00	38	20	0.00	33	17	0.03	28	15	0.04	22	12	0.05
		67 / 19	35	23	0.05	30	20	0.05	25	18	0.05	20	15	0.05	14	13	0.06
		62 / 17	28	23	0.06	23	21	0.06	18	18	0.06	15	15	0.14	12	12	0.29
	800	72 / 22	47	24	0.00	42	22	0.01	36	19	0.04	31	17	0.06	24	14	0.06
		67 / 19	38	25	0.06	33	22	0.06	28	20	0.07	22	17	0.07	15	14	0.08
		62 / 17	30	26	0.07	25	23	0.07	20	20	0.08	16	16	0.17	13	13	0.31
	900	72 / 22	51	26	0.00	45	24	0.03	40	21	0.06	33	18	0.07	26	15	0.07
		67 / 19	41	27	0.07	36	25	0.08	30	22	0.08	24	19	0.08	17	16	0.09
		62 / 17	33	28	0.08	28	25	0.08	22	22	0.09	18	18	0.19	15	15	0.33
025	700	72 / 22	53	26	0.00	47	23	0.00	41	21	0.00	35	18	0.02	27	15	0.03
		67 / 19	43	27	0.03	37	24	0.03	31	21	0.03	25	18	0.03	17	15	0.04
		62 / 17	34	27	0.03	28	24	0.03	23	21	0.04	18	18	0.10	14	14	0.26
	800	72 / 22	58	29	0.00	52	26	0.00	46	23	0.01	38	20	0.03	30	16	0.04
		67 / 19	47	30	0.04	41	26	0.04	35	23	0.04	27	20	0.04	19	17	0.05
		62 / 17	38	30	0.04	32	27	0.04	25	24	0.05	20	20	0.12	16	16	0.28
	900	72 / 22	63	32	0.00	57	28	0.00	50	25	0.03	41	21	0.04	33	18	0.05
		67 / 19	52	32	0.05	45	29	0.05	38	25	0.05	30	22	0.05	21	18	0.06
		62 / 17	41	33	0.05	34	29	0.05	27	26	0.06	22	22	0.14	18	18	0.29
030	875	72 / 22	62	31	0.00	56	28	0.00	49	24	0.02	41	21	0.04	32	17	0.04
		67 / 19	51	32	0.04	44	28	0.05	37	25	0.05	29	21	0.05	21	18	0.05
		62 / 17	40	32	0.05	34	29	0.05	27	25	0.06	21	21	0.13	18	18	0.28
	1000	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	19	0.06
		67 / 19	56	35	0.06	49	31	0.06	41	28	0.06	32	24	0.06	22	20	0.07
		62 / 17	44	36	0.06	37	32	0.06	29	28	0.07	24	24	0.16	20	20	0.30
	1125	72 / 22	74	37	0.00	66	33	0.02	58	29	0.05	48	25	0.06	38	21	0.07
		67 / 19	60	38	0.07	53	34	0.07	44	30	0.07	35	26	0.07	24	22	0.08
		62 / 17	48	39	0.07	40	35	0.07	32	31	0.09	26	26	0.18	21	21	0.32
036	1050	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	20	0.06
		67 / 19	56	36	0.06	49	32	0.06	41	28	0.06	32	24	0.07	22	20	0.07
		62 / 17	44	36	0.06	37	33	0.07	30	29	0.08	24	24	0.17	20	20	0.31
	1200	72 / 22	75	38	0.00	67	34	0.03	58	30	0.06	49	26	0.07	38	22	0.07
		67 / 19	61	39	0.07	53	35	0.08	45	31	0.08	35	27	0.08	25	22	0.09
		62 / 17	49	40	0.08	41	36	0.08	32	32	0.09	26	26	0.19	22	22	0.33
	1350	72 / 22	81	41	0.00	72	37	0.05	63	32	0.07	53	28	0.08	41	23	0.09
		67 / 19	66	43	0.08	58	38	0.09	48	34	0.09	38	29	0.09	27	25	0.10
		62 / 17	53	44	0.09	44	40	0.09	35	35	0.11	29	29	0.22	24	24	0.35
042	1225	72 / 22	89	44	0.00	80	40	0.00	70	36	0.02	58	30	0.03	46	25	0.04
		67 / 19	73	45	0.04	63	41	0.04	53	36	0.04	42	31	0.04	29	25	0.05
		62 / 17	58	46	0.04	48	41	0.04	38	36	0.05	30	30	0.12	25	25	0.28
	1400	72 / 22	98	49	0.00	88	44	0.00	77	39	0.03	64	33	0.04	50	28	0.05
		67 / 19	80	50	0.05	70	45	0.05	58	39	0.05	46	34	0.05	32	28	0.06
		62 / 17	64	51	0.06	53	46	0.06	42	40	0.06	34	34	0.14	28	28	0.29
	1575	72 / 22	106	53	0.00	95	48	0.00	83	42	0.04	69	36	0.05	54	30	0.06
		67 / 19	87	55	0.06	76	49	0.06	63	43	0.06	50	37	0.07	35	31	0.07
			62 / 17	69	56	0.07	58	50	0.07	46	44	0.08	37	37	0.17	31	31

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT (Continued)

FB4C Unit Size	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)															
		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13			
		TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	
048	1400	72 / 22	88	46	0.00	79	42	0.00	69	37	0.03	58	31	0.04	45	26	0.05
		67 / 19	72	48	0.05	63	43	0.05	52	37	0.05	41	32	0.05	29	27	0.06
		62 / 17	57	49	0.06	48	43	0.06	38	38	0.06	30	30	0.14	25	25	0.29
	1600	72 / 22	97	51	0.00	87	46	0.01	75	40	0.04	63	35	0.06	49	29	0.06
		67 / 19	79	52	0.06	69	47	0.06	57	41	0.07	45	36	0.07	32	30	0.08
		62 / 17	63	54	0.07	53	48	0.07	42	42	0.08	34	34	0.17	28	28	0.31
	1800	72 / 22	105	55	0.00	94	50	0.03	82	44	0.06	68	38	0.07	54	31	0.07
		67 / 19	86	57	0.07	75	51	0.08	62	45	0.08	49	39	0.08	34	33	0.09
		62 / 17	68	59	0.08	57	53	0.08	45	47	0.09	37	37	0.19	30	30	0.33
060	1600	72 / 22	106	54	0.00	95	49	0.00	82	43	0.01	69	37	0.03	54	31	0.04
		67 / 19	86	56	0.04	75	50	0.04	63	44	0.04	49	37	0.04	35	31	0.05
		62 / 17	68	56	0.04	57	50	0.04	45	44	0.05	36	36	0.12	29	29	0.28
	1750	72 / 22	113	58	0.00	101	52	0.00	88	46	0.02	74	39	0.04	58	33	0.04
		67 / 19	92	59	0.04	80	53	0.05	67	47	0.05	53	40	0.05	37	33	0.05
		62 / 17	73	61	0.05	61	54	0.05	49	48	0.06	39	39	0.13	32	32	0.28
	2000	72 / 22	124	64	0.00	111	57	0.00	97	50	0.04	81	43	0.05	63	36	0.06
		67 / 19	101	66	0.06	88	59	0.06	74	52	0.06	58	44	0.06	41	37	0.07
		62 / 17	80	67	0.06	67	60	0.06	53	53	0.07	43	43	0.16	35	35	0.30
061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

CFM - Cubic Ft per Minute EWB - Entering Wet Bulb °F (°C) LWB - Leaving Wet Bulb °F (°C) TC - Gross Cooling Capacity 1000 Bnh
 SHC - Gross Sensible Capacity 1000 Bnh BF - Bypass Factor MBH - 1000 Bnh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{wb})
 $h_{wb} = \frac{\text{total capacity (Bnh)}}{4.5 \times \text{CFM}}$
 where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychrometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

**FB4C AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc)
AT INDICATED AIRFLOW (DRY TO WET COIL)**

UNIT SIZE	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
018	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
024	0.034	0.049	0.063	0.076	0.089	—	—	—	—	—	—	—	—	—	—	—
025	0.015	0.026	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
030	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
036	—	—	—	—	—	0.070	0.080	0.090	0.099	—	—	—	—	—	—	—
042	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
048	—	—	—	—	—	—	—	—	—	0.063	0.070	0.076	0.083	0.090	—	—
060	—	—	—	—	—	—	—	—	—	—	—	0.049	0.054	0.059	0.065	0.070
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

FB4C 018 - 036			FB4C 042 - 061		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 018 through 036 size units and 15-kW heaters (3 elements) in the 042 through 061 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

MINIMUM CFM AND MOTOR SPEED SELECTION

FB4C	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
018	525	525	525	—	600	—	—	—	—	—
024 & 025	700	700	700	—	700	775	—	—	—	—
030	—	875	875	—	875	875	—	1060	—	—
036	—	1050	970	970	970	920	—	1040	—	—
042	—	—	1225	1225	1225	1225	1225	1225	—	—
048	—	—	1400	1400	1400	1400	1400	1400	1400	1400
060 & 061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

Speed Tap 4 (white wire) is used for electric heat only. White wire must remain on tap 4.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Bryant

Model: FE4A

AIRFLOW DELIVERY — COOLING, HEATING, ELECTRIC HEATING MODES

The FE4 and FE5A fan coils will provide airflow at a rate that is requested by the Integrated System User Interface during air conditioning or heat pump heating (without electric heat) modes. The nominal airflow for both heating and cooling modes is 350 cfm/ton nominal size of the outdoor unit installed. The airflow actually requested by the User Interface is modified by its internal algorithms for zoning, comfort or efficiency concerns. Refer to the

documentation for the User Interface for more information on how the User Interface controls the fan coil. Safe operation of electric heaters requires airflow delivery at or above the minimum CFM for electric heater application listed in the chart below. The fan coil will adjust its airflow delivery to maintain safe airflow as operating mode and staging conditions require.

FE4A/FE5A FAN COIL AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODELS

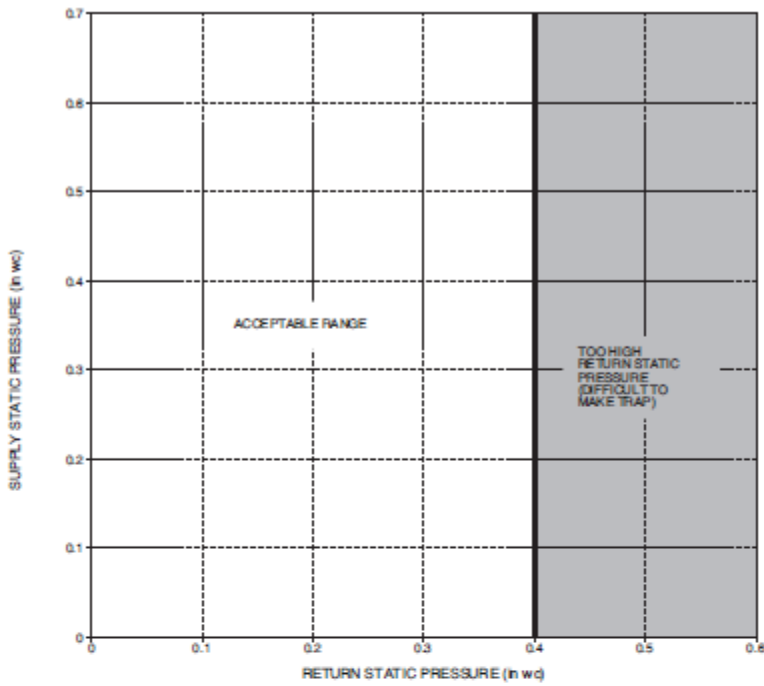
MODEL FE4A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
002	EMERGENCY	625	625	675	775	950	—	—
	18,000	625	625	675	—	—	—	—
	24,000	650	725	775	900	—	—	—
	30,000	800	875	875	925	1125	—	—
	36,000	975	975	975	1025	1125	—	—
003	EMERGENCY	675	700	775	850	1050	—	—
	24,000	675	875	875	1100	1150	—	—
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1350	—	—
005	EMERGENCY	675	700	775	850	1050	1400	1425
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1250	—	—
	48,000	1305	1305	1305	1305	1350	1500	1600
006	EMERGENCY	1050	1050	1050	1050	1125	1750	1750
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—
	48,000	1300	1300	1300	1350	1500	1750	1750
	60,000	1625	1625	1625	1625	1750	1750	1750
MODEL FE5A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
004	EMERGENCY	675	775	775	900	1125	—	—
	24,000	975	975	975	—	—	—	—
	30,000	1050	1050	1100	1125	—	—	—
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—

Note 1: Emergency – Air conditioner with electric heater application, or emergency heat.

Note 2: These airflows are minimum airflows as UL listed.

Note 3: Dashed entry indicates that the heater/fan coil/outdoor unit combination is not approved. Do not apply.

ACCEPTABLE DUCT CONDITIONS



For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

MINIMUM RPM TABLE

MODEL	SYSTEM SIZES	CFM RANGE	MIN RPM
FE4ANF02	018, 024, 030, 036	150 – 1200	300
FE4AN(B,F)03	024, 030, 036, 042	200 – 1400	295
FE4AN(B,F)06	030, 036, 042, 048	250 – 1600	275
FE4ANB06	036, 042, 048, 060	500 – 2000	275
FE5ANB04	024, 030, 036, 042	500 – 1400	275

MAXIMUM STATIC TABLE

MODEL	AIRFLOW DELIVERY	AVAILABLE STATIC PRESSURE
FE4ANF02	625 CFM	1.00 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	0.80 in wc
	1200 CFM	0.60 in wc
FE4AN(B,F)03	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	0.80 in wc
FE4AN(B,F)06	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE4ANB06	1600 CFM	0.50 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE5ANB04	1750 CFM	1.00 in wc
	2000 CFM	0.60 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
FE5ANB04	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc

GROSS COOLING CAPACITIES (MBTUH)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
		35 / 2			40 / 4			45 / 7			50 / 10			56 / 13		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FE4ANP002																
500	72/22	40.19	19.65	0.00	36.23	17.59	0.00	31.86	15.48	0.00	27.00	13.31	0.00	21.65	11.11	0.00
	67/19	32.99	19.92	0.01	28.96	17.79	0.01	24.52	15.62	0.01	19.64	13.40	0.01	14.29	11.17	0.01
	62/17	26.44	20.11	0.01	22.36	17.93	0.01	17.93	15.73	0.01	13.56	13.56	0.03	11.28	11.28	0.19
650	72/22	49.76	24.23	0.00	44.85	21.76	0.00	39.40	19.20	0.00	33.36	16.55	0.01	26.66	13.83	0.01
	67/19	40.90	24.80	0.01	35.90	22.22	0.01	30.37	19.55	0.02	24.27	16.82	0.02	17.58	14.06	0.02
	62/17	32.84	25.24	0.02	27.75	22.56	0.02	22.25	19.85	0.02	17.13	17.13	0.06	14.25	14.25	0.21
875	72/22	61.99	30.08	0.00	55.87	27.15	0.00	49.04	24.04	0.01	41.48	20.80	0.02	33.10	17.46	0.02
	67/19	51.08	31.23	0.03	44.83	28.09	0.03	37.91	24.84	0.03	30.23	21.47	0.03	21.83	18.03	0.03
	62/17	41.11	32.14	0.03	34.76	28.88	0.03	27.91	25.53	0.04	22.04	22.04	0.10	18.33	18.33	0.25
1000	72/22	67.83	32.91	0.00	61.10	29.78	0.00	53.66	26.40	0.02	45.36	22.89	0.03	36.17	19.27	0.03
	67/19	55.96	34.39	0.04	49.12	31.01	0.04	41.53	27.48	0.04	33.11	23.83	0.04	23.88	20.06	0.04
	62/17	45.09	35.62	0.04	38.13	32.08	0.04	30.69	28.43	0.05	24.54	24.54	0.12	20.40	20.40	0.27
1250	72/22	77.77	37.84	0.00	70.13	34.30	0.03	61.59	30.55	0.05	52.04	26.60	0.06	41.42	22.50	0.05
	67/19	64.36	40.02	0.06	56.52	36.24	0.06	47.77	32.27	0.06	38.04	28.12	0.06	27.46	23.81	0.07
	62/17	51.98	41.92	0.06	44.00	37.93	0.06	35.61	33.77	0.08	29.12	29.12	0.16	24.20	24.20	0.30
FE4ANP003																
600	72/22	43.01	20.98	0.00	38.69	18.78	0.00	33.92	16.51	0.00	28.64	14.18	0.00	22.85	11.81	0.01
	67/19	35.27	21.34	0.01	30.88	19.04	0.01	26.07	16.71	0.01	20.79	14.34	0.01	15.03	11.95	0.01
	62/17	28.24	21.59	0.01	23.81	19.25	0.01	19.05	16.90	0.02	14.56	14.56	0.05	12.11	12.11	0.21
800	72/22	53.83	26.15	0.00	48.40	23.49	0.00	42.36	20.71	0.00	36.72	17.83	0.02	28.38	14.89	0.02
	67/19	44.23	26.92	0.02	38.71	24.10	0.02	32.61	21.20	0.03	25.91	18.24	0.03	18.65	15.26	0.03
	62/17	35.47	27.49	0.03	29.87	24.58	0.03	23.89	21.65	0.03	18.67	18.67	0.09	15.51	15.51	0.24
1000	72/22	63.07	30.80	0.00	56.66	27.57	0.00	49.58	24.36	0.02	41.76	21.04	0.03	33.10	17.62	0.03
	67/19	51.91	31.82	0.04	45.41	28.58	0.04	38.24	25.24	0.04	30.31	21.78	0.04	21.76	18.29	0.05
	62/17	41.71	32.80	0.04	35.12	29.43	0.04	28.13	26.00	0.05	22.41	22.41	0.12	18.60	18.60	0.27
1200	72/22	71.01	34.48	0.00	63.77	31.12	0.02	55.79	27.57	0.04	46.96	23.88	0.05	37.18	20.08	0.05
	67/19	58.54	36.17	0.05	51.21	32.59	0.05	43.10	28.87	0.06	34.13	25.02	0.06	24.47	21.08	0.06
	62/17	47.12	37.60	0.06	39.70	33.86	0.06	31.89	30.00	0.07	25.83	25.83	0.15	21.43	21.43	0.29
1400	72/22	77.96	37.96	0.01	70.07	34.31	0.04	61.29	30.47	0.06	51.54	26.47	0.06	40.78	22.33	0.07
	67/19	64.44	40.15	0.07	56.37	36.28	0.07	47.43	32.24	0.07	37.54	28.04	0.07	26.89	23.69	0.08
	62/17	51.95	42.08	0.07	43.78	37.99	0.08	35.30	33.73	0.09	28.95	28.95	0.19	24.01	24.01	0.32
FE5ANB004																
600	72/22	40.42	19.84	0.00	36.59	17.80	0.00	32.35	15.70	0.00	27.64	13.54	0.00	22.39	11.33	0.00
	67/19	33.22	20.00	0.00	29.31	17.90	0.00	24.99	15.74	0.00	20.19	13.53	0.00	14.87	11.27	0.00
	62/17	26.67	20.11	0.00	22.69	17.95	0.00	18.31	15.75	0.00	13.60	13.54	0.00	11.29	11.29	0.17
800	72/22	52.07	25.46	0.00	47.19	22.92	0.00	41.75	20.28	0.00	35.66	17.53	0.00	28.84	14.70	0.00
	67/19	42.88	25.89	0.00	37.88	23.24	0.00	32.31	20.49	0.00	26.10	17.66	0.00	19.18	14.75	0.00
	62/17	34.51	26.21	0.00	29.39	23.46	0.00	23.73	20.64	0.00	17.81	17.81	0.01	14.85	14.85	0.18
1000	72/22	62.54	30.48	0.00	56.75	27.53	0.00	50.25	24.45	0.00	42.94	21.21	0.00	34.73	17.84	0.00
	67/19	51.63	31.28	0.00	45.66	28.17	0.01	38.98	24.93	0.01	31.49	21.55	0.01	23.12	18.06	0.01
	62/17	41.65	31.91	0.01	35.51	28.66	0.01	28.71	25.30	0.01	21.89	21.89	0.03	18.26	18.26	0.19
1200	72/22	71.89	34.94	0.00	65.33	31.70	0.00	57.89	28.24	0.00	49.50	24.59	0.00	40.06	20.76	0.00
	67/19	59.49	36.20	0.01	52.68	32.73	0.01	45.02	29.06	0.01	36.39	25.22	0.01	26.71	21.21	0.01
	62/17	48.10	37.22	0.01	41.07	33.55	0.01	33.27	29.72	0.01	25.77	25.77	0.05	21.51	21.51	0.20
1400	72/22	80.24	38.94	0.00	73.00	35.45	0.00	64.73	31.69	0.00	56.41	27.69	0.01	44.96	23.46	0.01
	67/19	66.53	40.71	0.01	58.99	36.93	0.01	50.47	32.91	0.02	40.84	28.66	0.02	29.98	24.20	0.02
	62/17	53.91	42.17	0.02	46.10	38.14	0.02	37.43	33.92	0.02	29.46	29.46	0.07	24.60	24.60	0.22
FE4ANP005																
750	72/22	57.24	28.01	0.00	51.64	25.08	0.00	45.46	22.08	0.00	38.59	19.00	0.00	30.99	15.85	0.00
	67/19	46.98	28.35	0.00	41.29	25.33	0.00	35.01	22.24	0.00	28.09	19.09	0.00	20.47	15.90	0.01
	62/17	37.67	28.59	0.01	31.89	25.50	0.01	25.61	22.37	0.01	19.28	19.28	0.02	16.05	16.05	0.19
950	72/22	69.68	33.97	0.00	62.89	30.52	0.00	55.32	26.92	0.00	48.89	23.21	0.00	37.57	19.40	0.00
	67/19	57.29	34.68	0.01	50.33	31.06	0.01	42.64	27.33	0.01	34.14	23.51	0.01	24.80	19.63	0.01
	62/17	45.99	35.21	0.01	38.92	31.47	0.01	31.24	27.68	0.01	23.90	23.90	0.04	19.89	19.89	0.20
1150	72/22	80.80	39.28	0.00	72.96	35.40	0.00	64.17	31.32	0.00	54.37	27.06	0.01	43.48	22.66	0.01
	67/19	66.56	40.46	0.02	58.50	36.34	0.02	49.54	32.05	0.02	39.60	27.64	0.02	28.70	23.15	0.02
	62/17	53.51	41.36	0.02	45.29	37.07	0.02	36.38	32.70	0.02	26.26	26.26	0.07	23.51	23.51	0.22
1500	72/22	97.47	47.29	0.00	88.05	42.83	0.00	77.49	38.05	0.01	65.68	33.04	0.02	52.41	27.78	0.02
	67/19	80.52	49.40	0.03	70.85	44.58	0.03	60.01	39.53	0.03	47.89	34.25	0.03	34.64	28.83	0.04
	62/17	64.96	51.12	0.03	55.02	46.04	0.03	44.30	40.80	0.04	35.27	35.27	0.10	29.34	29.34	0.25
1700	72/22	106.61	51.26	0.00	95.43	46.52	0.01	84.03	41.43	0.03	71.21	36.06	0.03	56.82	30.42	0.03
	67/19	87.38	53.92	0.04	76.93	48.80	0.04	65.20	43.40	0.04	52.01	37.70	0.04	37.60	31.83	0.05
	62/17	70.60	56.17	0.04	59.87	50.74	0.04	48.32	45.08	0.05	38.96	38.96	0.13	32.40	32.40	0.27
FE4ANB006																
1050	72/22	76.01	37.07	0.00	68.82	33.39	0.00	60.76	29.56	0.00	51.72	25.55	0.00	41.64	21.42	0.00
	67/19	62.63	37.91	0.01	55.22	34.04	0.01	46.97	30.03	0.01	37.78	25.89	0.01	27.60	21.64	0.01
	62/17	50.40	38.54	0.01	42.81	34.53	0.01	34.49	30.41	0.01	26.28	26.28	0.03	21.90	21.90	0.19
1300	72/22	89.66	43.58	0.00	81.26	39.43	0.00	71.77	35.02	0.00	61.13	30.39	0.00	49.17	25.56	0.01
	67/19	74.04	45.0													

CFM – Cubic Ft per Minute EWB – Entering Wet Bulb (°F / °C)
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor

LWB – Leaving Wet Bulb (°F / °C) TC – Gross Cooling Capacity 1000 Btuh
 MBH – 1000 Btuh

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

Leaving wb = wb corresponding to enthalpy of air leaving coil

(h_{wb})

$$h_{wb} = h_{\text{wb}} - \frac{\text{Total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.

3. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	Correction Factor					
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER kW	ELEMENTS	STATIC PRESSURE CORRECTION (in wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	- .02	- .03
20	4	- .04	- .06
18, 24, 30	6	- .06	- .10

The airflow performance table was developed using fan coils with 10kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

MODEL	CFM									
FE4A	400	600	800	1000	1200	1400	1600	1800	2000	
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—	—
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—	—
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—	—
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133	—
MODEL	CFM									
FE5A	400	600	800	1000	1200	1400	1600	1800	2000	
004	—	0.015	0.026	0.038	0.053	0.070	—	—	—	—

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc) AT INDICATED AIRFLOW (DRY TO WET COIL)

MODEL	CFM										
FE4A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048
MODEL	CFM										
FE5A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
004	0.004	0.005	0.007	0.009	0.011	0.013	0.016	0.018	0.020	0.023	—

NOTE: Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Bryant

Model: FV4C

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Nominal A/C Cooling	A/C Cooling Dehumidity	High Speed		Low Speed		Lo	Med	High
				Nominal A/C Cooling	A/C Cooling Dehumidity	Nominal A/C Cooling	A/C Cooling Dehumidity			
002	018	525	420	—	—	—	—	350	420	525
	024	700	560	700	560	560	450	350	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
003	024	700	560	700	560	560	450	415	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
005	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
006	036	1050	840	1050	840	840	670	540	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
	060	1750	1400	1750	1400	1400	1120	875	1400	1750

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4C fan coil.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Heat Pump Comfort	Heat Pump Efficiency	High Speed		Low Speed		Lo	Med	High
				Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency			
002	018	470	525	—	—	—	—	350	380	470
	024	630	700	630	700	505	560	350	505	630
	030	785	875	—	—	—	—	390	630	785
	036	945	1050	945	1050	755	840	470	755	945
003	024	630	700	630	700	415	560	415	505	630
	030	785	875	—	—	—	—	415	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
005	030	785	875	—	—	—	—	425	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
006	036	945	1050	945	1050	755	840	540	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
	060	1575	1750	1575	1750	1260	1400	785	1260	1575

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Nominal A/C Cooling	A/C Cooling Dehumidity	High Speed		Low Speed		Lo	Med	High
				Nominal A/C Cooling	A/C Cooling Dehumidity	Nominal A/C Cooling	A/C Cooling Dehumidity			
002	018	525	420	—	—	—	—	350	420	525
	024	700	560	700	560	560	450	350	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
003	024	700	560	700	560	560	450	415	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
005	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
006	036	1050	840	1050	840	840	670	540	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
	060	1750	1400	1750	1400	1400	1120	875	1400	1750

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4C fan coil.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Heat Pump Comfort	Heat Pump Efficiency	High Speed		Low Speed		Lo	Med	High
				Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency			
002	018	470	525	—	—	—	—	350	380	470
	024	630	700	630	700	505	560	350	505	630
	030	785	875	—	—	—	—	390	630	785
	036	945	1050	945	1050	755	840	470	755	945
003	024	630	700	630	700	415	560	415	505	630
	030	785	875	—	—	—	—	415	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
005	030	785	875	—	—	—	—	425	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
006	036	945	1050	945	1050	755	840	540	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
	060	1575	1750	1575	1750	1260	1400	785	1260	1575

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODES

FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE											
		0–5			0–10			0–15			0–20		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
002	18,000	625	625	625	675	675	—	—	—	—	—	—	—
	24,000	650	725	835	—	725	835	875	875	875	—	—	—
	30,000	815	905	1040	—	905	1040	900	900	1040	1100	1100	1100
	36,000	980	1085	1250	980	1085	1250	980	1085	1250	1100	1100	1250
003	24,000	675	725	835	875	875	—	—	—	—	—	—	—
	30,000	815	905	1040	875	905	1040	1100	1100	1100	—	—	—
	36,000	980	1085	1250	980	1085	1250	1100	1100	1250	1225	1225	1250
	42,000	1140	1270	1460	1140	1270	1460	1140	1270	1460	1225	1270	1460
FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE											
		0–10			0–15			0–20			0–30		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
005	30,000	975	975	1040	1100	1100	1100	—	—	—	—	—	—
	36,000	980	1085	1250	1100	1100	1250	1250	1250	1250	—	—	—
	42,000	1140	1270	1460	1140	1270	1460	1250	1270	1460	—	—	—
	48,000	1305	1450	1665	1305	1450	1665	1305	1450	1665	1500	1500	1665
006	36,000	1100	1100	1250	1350	1350	1350	—	—	—	—	—	—
	42,000	1140	1270	1460	1350	1350	1460	1525	1525	1525	—	—	—
	48,000	1305	1450	1665	1350	1450	1665	1525	1525	1665	1750	1750	1750
	60,000	1630	1810	2085	1630	1810	2085	1630	1810	2085	1750	1810	2085

NOTE: Lo, NOM, and HI refer to AC, HP CFM ADJUST selection.
 — Airflow not recommended for heater/system size.

MINIMUM CFM FOR ELECTRIC HEATER APPLICATION

FAN COIL UNIT	HEAT PUMP UNIT SIZE	CFM				
		HEATER SIZE kW				
		5	8, 9, 10	15	18, 20	24, 30
002	Heater Only	625	625	725	875	—
	018	625	625	—	—	—
	024	650	725	875	—	—
	030	800	875	875	1040	—
	036	970	970	970	1040	—
003	Heater Only	675	700	1050	1050	—
	024	675	875	—	—	—
	030	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
005	Heater Only	675	700	1050	1050	1400
	018	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
	048	1305	1305	1305	1305	1400
006	Heater Only	1050	1050	1050	1050	1750
	018	1100	1100	1350	1350	—
	042	1125	1125	1350	1350	—
	048	1300	1300	1350	1465	1750
	060	1625	1625	1625	1750	1750

NOTES:

1. Heater Only—Air conditioner with electric heater application.
2. These airflows are minimum acceptable airflows as UL listed. Actual airflow delivered will be per airflow delivery chart for Electric Heating Modes.

ACCEPTABLE DUCT CONDITIONS

For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the “Acceptable Range” illustrated above.

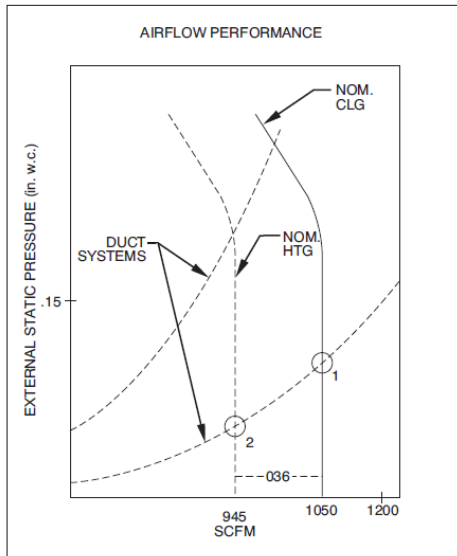
The airflow performance charts for the FV4C fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

The dotted curved lines are static pressure drop characteristics for several fixed-duct systems. These lines can be used to predict the

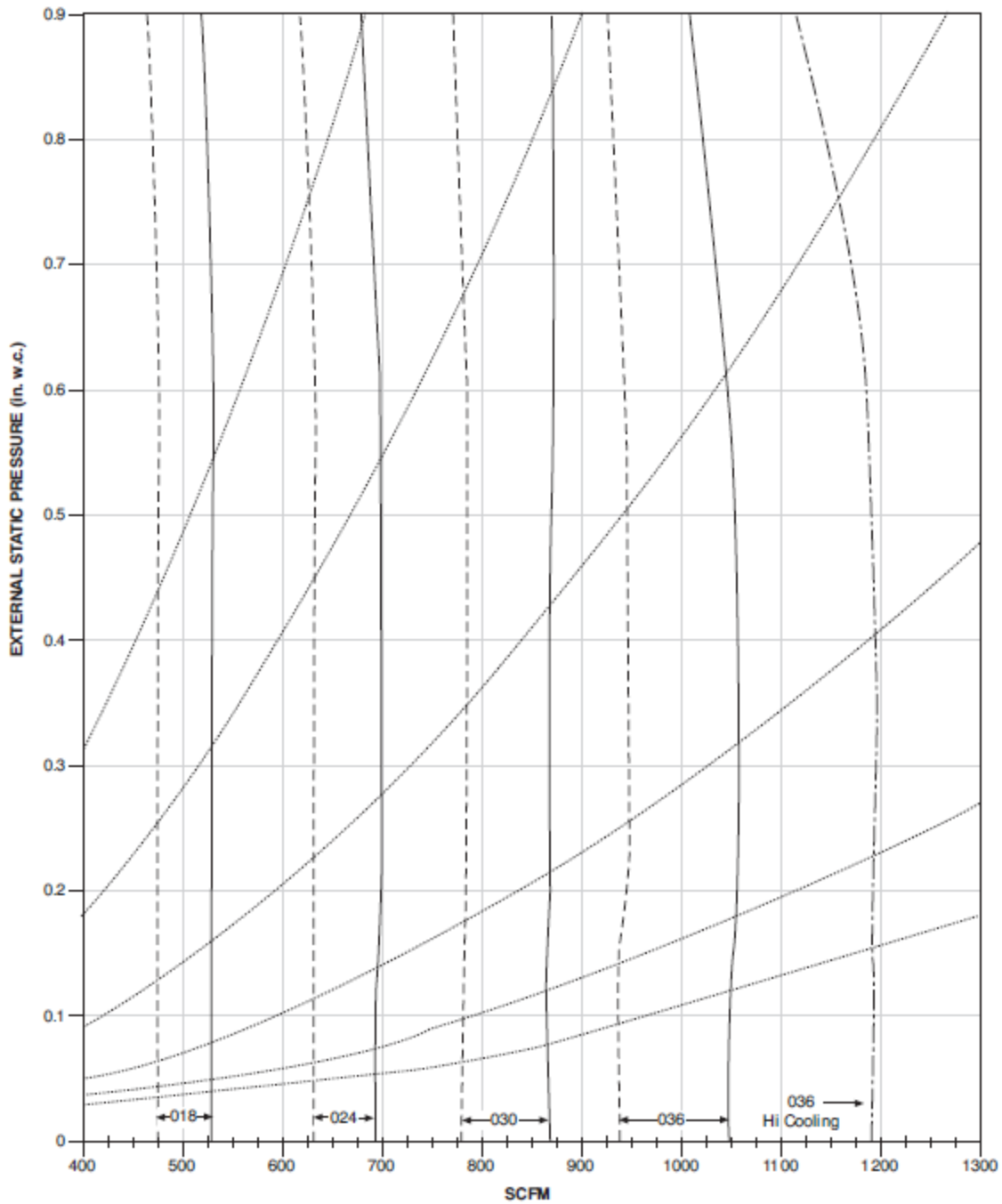
system static pressure drop at any airflow given the actual drop at 1 known point.

For example, a duct system is designed for 0.15 in. water column (in. w.c.) drop at 1200 CFM. The FV4CNF005 operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of 0.11 in. w.c.. (See point 1.) On the same duct system, the FV4CNF005 operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 in. w.c. (See point 2.)

This example is but one of many possible duct system designs. The FV4CNF005 will deliver the above airflows against much higher static pressures.



AIRFLOW PERFORMANCE

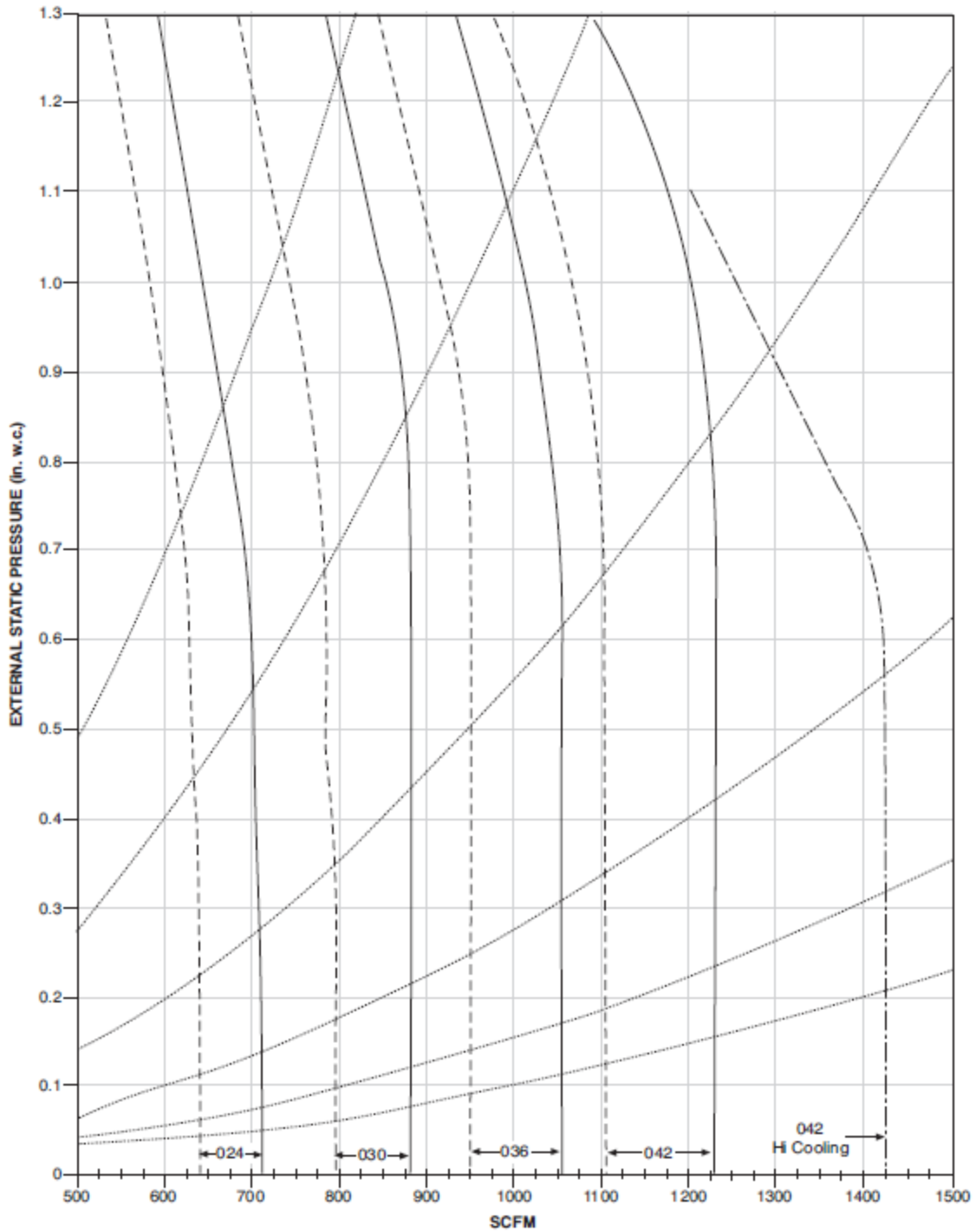


A09340

FV4CNE002

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

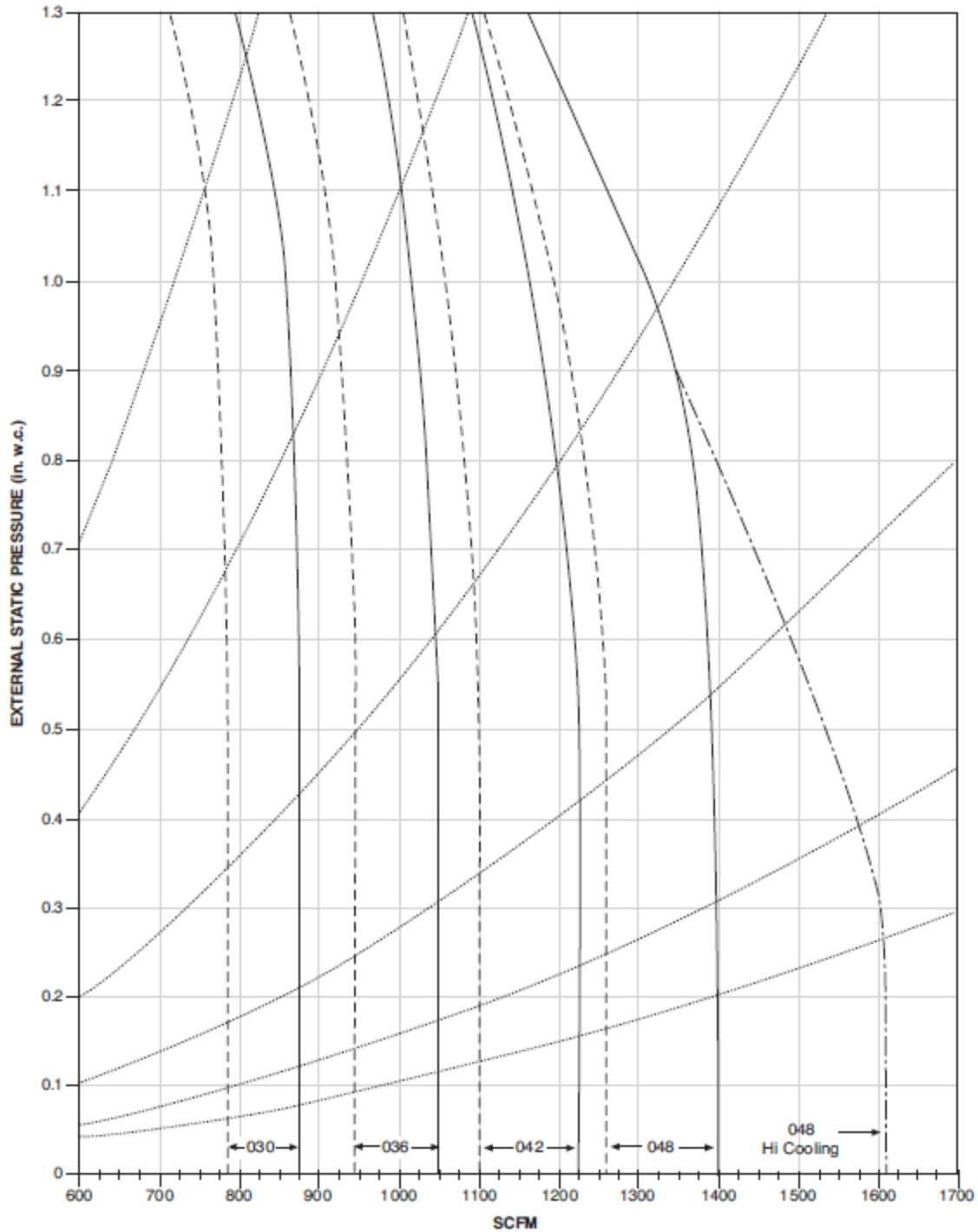


A0841

FV4CN(B,F)003

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

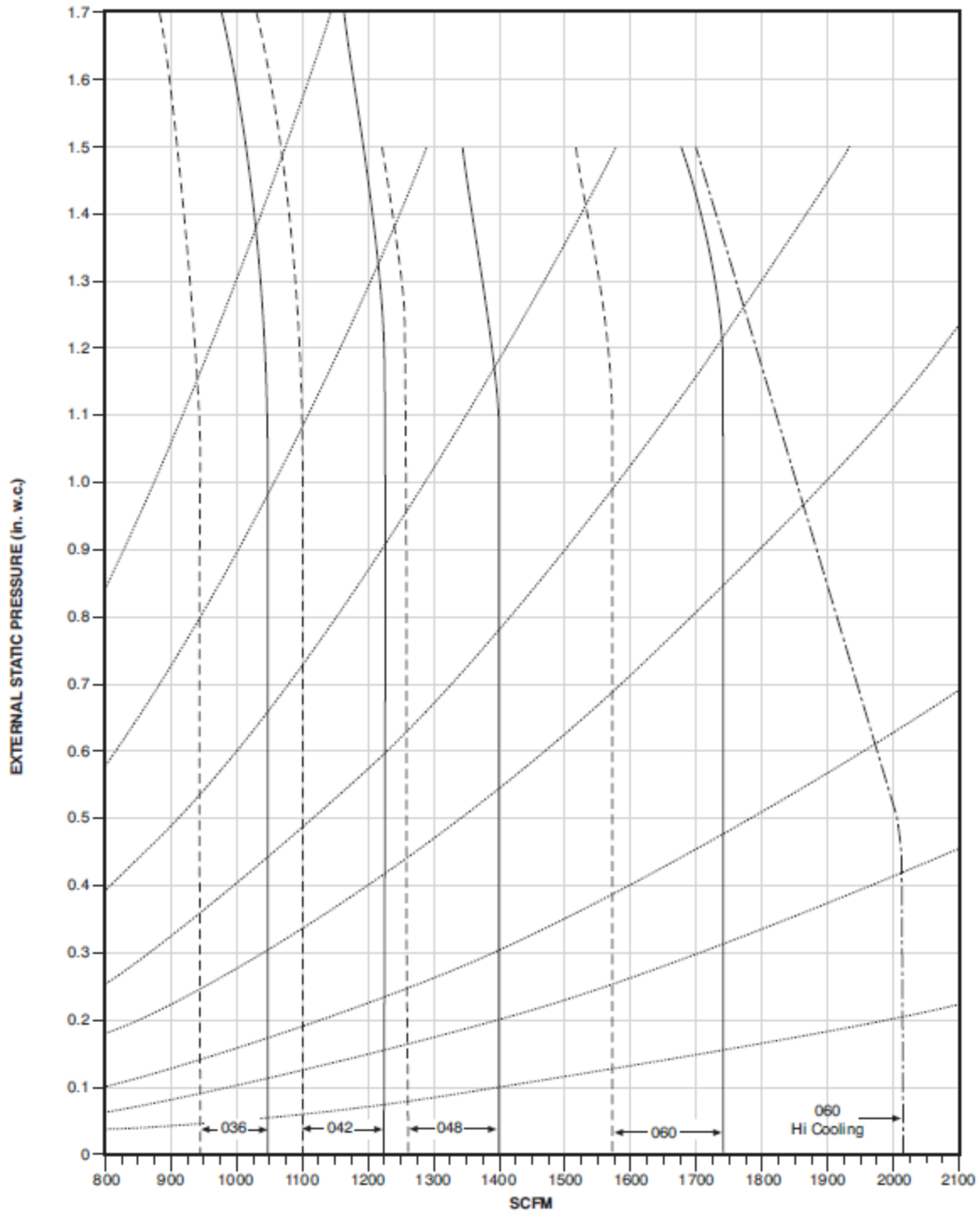


A08342

FV4CN(B,F)005

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE



A09343

FV4CNB006

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER kW	ELEMENTS	STATIC PRESSURE CORRECTION (in. wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	-.02	-.03
20	4	-.04	-.06
18, 24, 30	6	-.06	-.10

The FV4C airflow performance table was developed using fan coils with 10-kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in. wc)

UNIT SIZE	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (IN. WC) AT INDICATED AIRFLOW (DRY TO WET COIL)

UNIT SIZE	CFM										
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Bryant

Model: FX4D

Table 1 – AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FX4D 019	Tap 5	776	745	696	660	609	572
	Tap 4	683	644	589	548	494	461
	Tap 3	683	644	589	548	494	461
	Tap 2	631	563	500	443	409	361
	Tap 1	625	524	457	417	367	319
FX4D 025	Tap 5	956	920	891	851	816	780
	Tap 4	825	795	757	722	674	634
	Tap 3	825	795	757	722	674	634
	Tap 2	726	695	635	598	543	509
	Tap 1	631	563	500	443	409	361
FX4D 031	Tap 5	1189	1151	1104	1050	1003	959
	Tap 4	1041	998	944	886	837	772
	Tap 3	1041	998	944	886	837	772
	Tap 2	924	876	817	752	704	660
	Tap 1	779	693	628	571	526	476
FX4D 037	Tap 5	1363	1332	1294	1253	1207	1157
	Tap 4	1237	1206	1160	1121	1070	1013
	Tap 3	1237	1206	1160	1121	1070	1013
	Tap 2	1095	1058	1007	951	888	824
	Tap 1	1014	885	773	673	609	549
FX4D 043	Tap 5	1519	1490	1454	1419	1379	1332
	Tap 4	1437	1403	1366	1333	1294	1245
	Tap 3	1437	1403	1366	1333	1294	1245
	Tap 2	1257	1226	1191	1141	1090	1033
	Tap 1	1237	1206	1160	1121	1070	1013
FX4D 049	Tap 5	1757	1725	1693	1653	1614	1576
	Tap 4	1664	1626	1593	1552	1517	1477
	Tap 3	1664	1626	1593	1552	1517	1477
	Tap 2	1459	1420	1379	1336	1298	1259
	Tap 1	1301	1241	1195	1150	1102	1039
FX4D 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

■ - Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 037, 3 element heater sizes 043 through 061).
- Airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 043 - 061 sizes must have supply static greater than 0.20 in wc.
- Airflow above 400 cfm/ton on 049-061 size could result in condensate blowing off coil or splashing out of drain pan.

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

See Notes following table.

CFM - Cubic Ft per Minute EWB - Entering Wet Bulb °F (°C) LWB - Leaving Wet Bulb °F (°C) TC - Gross Cooling Capacity 1000 Btuh
 SHC - Gross Sensible Capacity 1000 Btuh BF - Bypass Factor MBH - 1000 Btuh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{lwb})
 $h_{lwb} = \frac{h_{ewb} - \text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
 where h_{ewb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

Table 3 – SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

Table 4 – MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES FX	HEATER KW									
	3	5	8	9	10	15	18	20	24	30
019	525	525	525	—	600*	—	—	—	—	—
025	700	700	700	—	700	775*	—	—	—	—
031	—	875	875	—	875	875	—	1060*	—	—
037	—	1050	970	970	970	920	—	1040	—	—
043	—	—	1225	1225	1225	1225	1225	1225	—	—
049	—	—	1400	1400	1400	1400	1400	1400	1400	1400
061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates medium speed (blue). All other motor speeds at low tap.

Table 5 – AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc AT INDICATED AIRFLOW (DRY-TO-WET COIL))

FX Size	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
019	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
025	0.016	0.027	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
031	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
037	—	—	—	—	—	0.055	0.064	0.073	0.081	—	—	—	—	—	—	—
043	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
049	—	—	—	—	—	—	—	—	—	0.038	0.043	0.049	0.054	0.059	—	—
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

Table 6 – FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

Unit Size FX4D	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
019, 025	0.012	0.022	0.048	0.072	—	—	—	—	—
031, 037, 043	—	—	0.036	0.051	0.07	0.092	0.12	—	—
049, 061	—	—	—	—	—	0.073	0.086	0.105	0.13

Table 7 – ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

019 - 037			043 - 061		
HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 019 through 037 size units and 15-kW heaters (3 elements) in the 043 through 061 size units.
For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

Manufacturer: Carrier

Model: 40MBAA

WIRELESS REMOTE CONTROLLER

1. A wireless remote controller is supplied for setting airflow. Please refer to the installation manual in HVAC Partners for setting airflow.
2. The Infrared receiver is located inside the control box of the indoor Air Handler and can be relocated if necessary.



Fig. 5 — Wireless Remote Controller

AIR FLOW DATA

Table 6 — Air Flow Data

SYSTEM SIZE		24K (208/230V)	36K (208/230V)	48K (208/230V)
Airflow** (CFM)	High	882	1,176	1,412
	Medium	765	1,000	1,294
	Low	588	824	1,176

Airflow values obtained at AHRI 210/240 rating conditions.

**Measured at rates static pressure:

24K: 0.1 in. WG (25pa)

36K: 0.15 in. WG (37pa)

48K: 0.2 in. WG (50pa)

SETTING STATIC PRESSURE AND AIRFLOW

The indoor fan coil units can be programmed to have different static pressures settings or airflows; the factory default setting is SP1. Follow the next steps to set the **static pressure** or **Automatic Airflow** using the Wireless Remote Controller according to the installation conditions.

- The external static pressure can be manually changed to the fan curves SP1, SP2, SP3, SP4.
- Choose the Automatic Airflow “AF” adjustment function to automatically identify the static pressure and regulate the airflow amount.

Follow these instructions to configure:

1. Ensure the test run is done with a dry coil. If the coil is not dry, run the unit for 2 hours in the **FAN ONLY** mode to dry the coil.
2. Check that both the power supply wiring and the duct installation have been completed. Check that the air vent is properly positioned. Check that the air filter is properly attached to the air return side passage of the unit.
3. If there is more than one air inlet and/or outlet, adjust the dampers so that the airflow rate of each air inlet and outlet conforms to the designed airflow rate. Ensure the unit is in **FAN ONLY** mode.

The wireless remote controller is required to setup the static pressure of the indoor air handler units.

NOTE: When a system is using the 24V interface built-in, the indoor unit’s fan speed defaults to **AUTO** with the indoor unit’s default logic.

The external static pressure should be selected using the wireless remote controller (RG57F3(B)/BGEFU1), included with the indoor unit, by pointing it toward the indoor unit’s Infrared Receiver typically located inside the control box.

- a. Before using the service functions of the remote, turn **OFF** the indoor unit with the remote.
- b. Turn off the power to the indoor and outdoor units for 3 minutes.
- c. Turn the power back on.
- d. Remove the batteries from the RG57 wireless remote controller and wait for the remote screen to clear or press any button and the screen clears.
- e. Reinstall the batteries.
- f. Within 30 seconds of replacing the batteries, simultaneously press **MODE** and **TIMER ON** for five (5) seconds. You are now in the **SERVICE FUNCTION** mode – and the remote display reads **F1**.
- g. Manual static pressure or Automatic Airflow adjustment selection:
 1. For manual static pressure selection, press the **DOWN** arrow in the center of the remote (labeled **TEMP**) to display **E9**. Press **MODE** to set the external static pressure/airflow rate in the range of 1-4 (airflow increases quickly). Press **TIMER ON** to confirm. The values on the remote controller (1,2,3,4) correlate directly to the static pressure curves SP1, SP2, SP3, SP4 (see “**FAN PERFORMANCES AT VARYING STATIC PRESSURES**” on page 13).
 2. If choosing the **AUTOMATIC AIRFLOW ADJUSTMENT** function, with **F1** in the remote display, press the **DOWN** arrow once and **d4** appears. Press **TIMER ON** to confirm. **AF** appears in the unit’s LED display. The system starts the fan for the airflow automatic adjustment. The **ON** indicator flashes when the fan runs during the **AUTOMATIC AIRFLOW ADJUSTMENT**. After 3 to 6 minutes, the system stops operating once the **AUTOMATIC AIRFLOW ADJUSTMENT** is complete.
- h. Remove the remote controller battery, and then re-insert the battery after the remote controller screen goes blank. The remote controller exits the **SERVICE FUNCTION** mode.

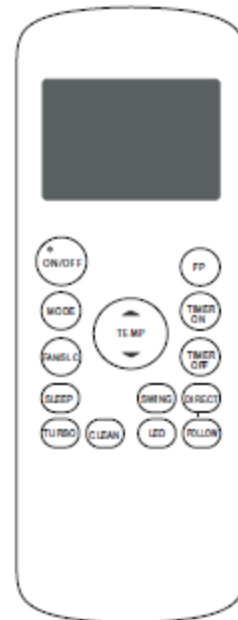


Fig. 8 — Remote Controller

FAN PERFORMANCES AT VARYING STATIC PRESSURES

Table 10 — Static Pressure at the Rated Point and Static Pressure Range

AHU	FAN COIL BLOWER PERFORMANCE CFM (DRY COIL WITHOUT FILTER OR ELECTRIC HEAT)										
	Model Number	Static Pressure	Speed	EXTERNAL STATIC PRESSURE (in.w.c.)							
				0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
24	SP1	High	1,076	975	853	675	502	200	/	/	/
		Medium	942	822	658	465	184	/	/	/	/
		Low	797	648	437	100	/	/	/	/	/
	SP2	High	1,250	1,175	1,075	965	815	650	475	200	/
		Medium	1,185	1,095	996	855	685	512	291	/	/
		Low	1,100	1,005	892	712	558	322	/	/	/
	SP3	High	1,490	1,415	1,334	1,250	1,156	1,028	880	750	600
		Medium	1,375	1,294	1,206	1,100	988	822	676	500	284
		Low	1,285	1,200	1,105	995	845	685	525	252	/
	SP4	High	1,825	1,756	1,670	1,592	1,515	1,450	1,360	1,250	1,120
		Medium	1,630	1,556	1,480	1,400	1,310	1,215	1,105	950	825
		Low	1,525	1,450	1,372	1,280	1,190	1,074	935	785	650
36	SP1	High	1,335	1,270	1,165	1,062	950	810	645	450	240
		Medium	1,185	1,100	990	845	685	520	335	/	/
		Low	1,020	915	775	600	405	/	/	/	/
	SP2	High	1,475	1,405	1,320	1,230	1,125	990	855	715	570
		Medium	1,340	1,260	1,172	1,055	920	775	630	460	275
		Low	1,205	1,115	1,011	870	715	555	380	/	/
	SP3	High	1,648	1,585	1,515	1,440	1,354	1,235	1,125	990	875
		Medium	1,510	1,440	1,362	1,275	1,168	1,040	910	780	645
		Low	1,385	1,305	1,215	1,115	986	855	727	580	421
	SP4	High	1,815	1,733	1,663	1,605	1,528	1,435	1,346	1,235	1,130
		Medium	1,668	1,606	1,539	1,465	1,380	1,275	1,178	1,050	941
		Low	1,558	1,481	1,406	1,350	1,219	1,100	986	875	748
48	SP1	High	1,611	1,530	1,462	1,375	1,276	1,170	1,052	925	831
		Medium	1,498	1,417	1,333	1,225	1,125	998	900	775	631
		Low	1,375	1,297	1,212	1,110	994	860	716	558	389
	SP2	High	1,774	1,701	1,642	1,570	1,504	1,420	1,313	1,202	1,081
		Medium	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
		Low	1,558	1,481	1,406	1,323	1,220	1,110	986	880	748
	SP3	High	1,868	1,805	1,736	1,675	1,604	1,532	1,433	1,330	1,211
		Medium	1,781	1,709	1,649	1,582	1,511	1,420	1,308	1,208	1,081
		Low	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
	SP4	High	2,024	1,974	1,919	1,850	1,795	1,726	1,652	1,560	1,466
		Medium	1,942	1,872	1,818	1,765	1,697	1,620	1,534	1,455	1,345
		Low	1,825	1,770	1,708	1,648	1,578	1,492	1,400	1,295	1,180

>300CFM <450CFM

NOTES:

- Airflow based upon dry coil at 230v without filter or electric heater.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 48 size must have supply static greater than 0.20 in wc.
- Airflow above 400 cfm/ton could result in condensate blowing off coil or splashing out of drain pan.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Carrier

Model: CNPV

COOLING CAPACITIES (MBH) - PURON REFRIGERANT

CNPV UNIT SIZE	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)															
		30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)			
		CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC
1814	450	72 (22)	31.00	15.20	0.00	28.60	13.90	0.00	25.80	12.50	0.00	22.80	11.10	0.00	19.30	9.60	0.00
		67 (19)	26.00	15.70	0.00	23.50	14.30	0.01	20.70	12.80	0.01	17.60	11.30	0.01	14.10	9.80	0.01
		62 (17)	21.50	16.00	0.01	18.90	14.50	0.01	16.10	13.00	0.01	13.00	11.50	0.01	10.10	10.10	0.03
	600	72 (22)	38.30	18.70	0.00	35.30	17.10	0.00	32.00	15.50	0.00	28.20	13.80	0.00	23.90	12.00	0.01
		67 (19)	32.30	19.50	0.01	29.20	17.80	0.02	25.70	16.10	0.02	21.80	14.30	0.02	17.50	12.40	0.02
		62 (17)	26.70	20.10	0.02	23.50	18.40	0.02	20.00	16.60	0.02	16.20	14.80	0.02	12.90	12.90	0.06
	750	72 (22)	44.30	21.50	0.00	40.90	19.90	0.00	37.00	18.10	0.00	32.70	16.10	0.02	27.70	14.00	0.02
		67 (19)	37.40	22.80	0.03	33.90	20.90	0.03	29.90	19.00	0.03	25.40	16.90	0.03	20.40	14.70	0.04
		62 (17)	31.10	23.80	0.04	27.40	21.80	0.04	23.40	19.80	0.04	19.10	17.70	0.04	15.60	15.60	0.10
1917	450	72 (22)	43.72	21.88	0.00	40.49	20.18	0.00	36.83	18.36	0.00	32.67	16.42	0.00	27.95	14.37	0.00
		67 (19)	36.66	22.46	0.00	33.32	20.65	0.00	29.55	18.73	0.00	25.28	16.69	0.00	20.45	14.55	0.00
		62 (17)	30.28	22.93	0.01	26.83	21.02	0.01	23.00	19.03	0.01	18.79	16.98	0.01	14.88	14.88	0.04
	600	72 (22)	53.61	26.56	0.00	49.70	24.60	0.00	45.23	22.48	0.00	40.13	20.19	0.01	34.31	17.72	0.01
		67 (19)	45.00	27.67	0.01	40.96	25.56	0.01	36.35	23.28	0.01	31.10	20.84	0.01	25.13	18.26	0.01
		62 (17)	37.22	28.61	0.01	33.03	26.36	0.01	28.38	24.00	0.01	23.28	21.54	0.02	19.00	19.00	0.07
	750	72 (22)	61.74	30.45	0.00	57.28	28.32	0.00	52.17	25.97	0.01	46.32	23.41	0.02	39.65	20.66	0.02
		67 (19)	51.91	32.14	0.02	47.30	29.82	0.02	42.02	27.29	0.02	35.98	24.55	0.02	29.10	21.62	0.02
		62 (17)	42.99	33.62	0.02	38.23	31.14	0.02	32.93	28.50	0.02	27.20	25.75	0.03	22.72	22.72	0.10
2414 2417	600	72 (22)	39.00	19.00	0.00	36.00	17.50	0.00	32.70	15.90	0.00	28.80	14.10	0.00	24.60	12.30	0.01
		67 (19)	32.80	19.80	0.01	29.80	18.20	0.01	26.30	16.40	0.01	22.40	14.60	0.02	18.10	12.60	0.02
		62 (17)	27.20	20.50	0.02	24.00	18.70	0.02	20.50	16.90	0.02	16.60	15.00	0.02	13.10	13.10	0.05
	800	72 (22)	47.10	22.80	0.00	43.60	21.10	0.00	39.60	19.30	0.00	35.00	17.30	0.02	29.90	15.10	0.02
		67 (19)	39.80	24.20	0.03	36.10	22.30	0.03	32.00	20.30	0.03	27.30	18.10	0.03	22.00	15.90	0.03
		62 (17)	33.10	25.40	0.03	29.30	23.40	0.03	25.10	21.20	0.03	20.50	19.00	0.04	16.70	16.70	0.09
	1000	72 (22)	53.40	25.90	0.00	49.50	24.20	0.00	45.10	22.10	0.02	40.00	19.90	0.03	34.10	17.50	0.04
		67 (19)	45.30	27.90	0.05	41.20	25.90	0.05	36.60	23.70	0.05	31.30	21.30	0.05	25.20	18.70	0.05
		62 (17)	37.80	29.60	0.05	33.60	27.40	0.05	28.80	25.10	0.05	23.80	22.70	0.06	20.00	20.00	0.13
3014 3017	750	72 (22)	48.00	23.50	0.00	44.00	21.40	0.00	39.70	19.20	0.00	34.80	17.00	0.00	29.40	14.60	0.01
		67 (19)	40.30	24.20	0.01	36.20	22.00	0.02	31.80	19.70	0.02	26.80	17.40	0.02	21.40	15.00	0.02
		62 (17)	33.20	24.80	0.02	29.10	22.50	0.02	24.60	20.20	0.02	19.90	17.90	0.02	15.60	15.60	0.05
	1000	72 (22)	58.70	28.50	0.00	53.90	26.10	0.00	48.50	23.60	0.00	42.50	20.90	0.02	35.80	18.10	0.03
		67 (19)	49.40	29.90	0.03	44.40	27.30	0.03	38.90	24.60	0.04	32.90	21.70	0.04	26.20	18.80	0.04
		62 (17)	40.80	30.90	0.04	35.80	28.20	0.04	30.30	25.40	0.04	24.60	22.60	0.05	19.90	19.90	0.10
	1250	72 (22)	67.40	32.70	0.00	61.90	30.10	0.00	55.70	27.30	0.02	48.80	24.20	0.04	41.10	21.00	0.05
		67 (19)	56.80	34.70	0.05	51.20	31.80	0.06	44.90	28.70	0.06	37.80	25.50	0.06	30.10	22.20	0.06
		62 (17)	47.10	36.30	0.06	41.30	33.20	0.06	35.00	30.10	0.06	28.60	27.00	0.07	23.70	23.70	0.14
3117	750	72 (22)	74.50	37.07	0.00	68.51	33.85	0.00	61.86	30.50	0.00	54.41	27.00	0.00	46.04	23.35	0.00
		67 (19)	62.13	37.73	0.01	56.03	34.37	0.01	49.24	30.87	0.01	41.66	27.24	0.01	32.96	23.39	0.01
		62 (17)	50.98	38.20	0.01	44.75	34.72	0.01	37.95	31.17	0.01	30.17	27.36	0.01	23.70	23.70	0.06
	1000	72 (22)	92.35	45.51	0.00	85.01	41.76	0.00	76.78	37.78	0.00	67.46	33.54	0.01	57.03	29.08	0.01
		67 (19)	77.15	46.96	0.02	69.62	42.94	0.02	61.18	38.71	0.02	51.69	34.27	0.02	41.04	29.62	0.02
		62 (17)	63.39	48.06	0.02	55.66	43.85	0.02	47.21	39.53	0.02	38.21	35.15	0.02	30.59	30.59	0.08
	1250	72 (22)	107.37	52.63	0.00	98.97	48.52	0.00	89.37	44.04	0.01	78.59	39.23	0.02	66.39	34.13	0.02
		67 (19)	89.89	54.97	0.03	81.19	50.47	0.03	71.37	45.67	0.03	60.28	40.57	0.03	47.77	35.20	0.03
		62 (17)	73.97	56.83	0.03	64.99	52.05	0.03	55.22	47.14	0.03	44.93	42.16	0.04	36.94	36.94	0.11
3617 3621 T3617	900	72 (22)	58.10	28.30	0.00	53.40	25.90	0.00	48.00	23.30	0.00	42.10	20.60	0.01	35.50	17.80	0.02
		67 (19)	48.90	29.50	0.02	44.00	26.90	0.03	38.50	24.20	0.03	32.50	21.30	0.03	25.90	18.40	0.03
		62 (17)	40.40	30.40	0.03	35.40	27.70	0.03	29.90	24.90	0.03	24.20	22.10	0.04	19.40	19.40	0.08
	1200	72 (22)	70.00	33.90	0.00	64.30	31.20	0.00	57.80	28.30	0.02	50.70	25.10	0.04	42.70	21.80	0.05
		67 (19)	58.90	35.90	0.05	53.10	32.90	0.05	46.50	29.70	0.05	39.30	26.40	0.06	31.20	22.90	0.06
		62 (17)	48.80	37.50	0.06	42.80	34.30	0.06	36.30	31.00	0.06	29.60	27.80	0.06	24.40	24.40	0.13
	1500	72 (22)	79.30	38.60	0.00	72.90	35.60	0.02	65.70	32.30	0.05	57.50	28.80	0.06	48.50	25.10	0.07
		67 (19)	67.00	41.30	0.08	60.40	38.00	0.08	53.00	34.40	0.08	44.70	30.70	0.08	35.50	26.80	0.09
		62 (17)	55.70	43.60	0.09	48.80	40.00	0.09	41.60	36.50	0.09	34.20	32.90	0.10	28.80	28.80	0.18
3717	900	72 (22)	86.45	42.79	0.00	79.79	39.28	0.00	72.26	35.55	0.00	63.72	31.59	0.00	54.22	27.47	0.00
		67 (19)	72.26	43.90	0.01	65.40	40.18	0.01	57.69	36.26	0.01	49.03	32.14	0.01	39.27	27.83	0.01
		62 (17)	59.44	44.77	0.01	52.40	40.88	0.01	44.62	36.85	0.01	36.17	32.73	0.01	28.45	28.45	0.06
	1200	72 (22)	106.02	52.03	0.00	97.94	48.01	0.00	88.72	43.65	0.00	78.38	39.00	0.01	66.68	34.06	0.01
		67 (19)	88.80	54.21	0.02	80.47	49.85	0.02	71.05	45.21	0.02	60.40	40.28	0.02	48.31	35.05	0.02
		62 (17)	73.18	55.98	0.02	64.58	51.37	0.02	55.14	46.59	0.02	44.93	41.66	0.02	36.59	36.59	0.08
	1500	72 (22)	122.09	59.72	0.00	112.86	55.34	0.00	102.29	50.48	0.02	90.55	45.34	0.02	77.08	39.79	0.03
		67 (19)	102.46	63.03	0.03	92.95	58.22	0.03	82.20	53.07	0.03	69.94	47.52	0.03	55.95	41.57	0.03
		62 (17)	84.62	65.86	0.03	74.82	60.74	0.03	64.08	55.41	0.03	52.61	49.87	0.04	43.79	43.79	0.12

Legend:

CFM – Cubic Ft. per Minute

EWB – Entering Wet Bulb

LWB – Leaving Wet Bulb

TC – Gross Cooling Capacity 1000 Btuh

SHC – Gross Sensible Capacity 1000 Btuh

BF – Bypass Factor

MBH – 1000 Btuh

See notes on next page.

COOLING CAPACITIES (MBH) - PURON REFRIGERANT

CNPV UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
4217 4221 4224 T4221	1050	72 (22)	74.40	36.30	0.00	68.10	33.10	0.00	61.20	29.70	0.00	53.50	26.20	0.01	45.00	22.60	0.02
		67 (19)	62.30	37.60	0.02	56.00	34.20	0.03	48.90	30.60	0.03	41.20	27.00	0.03	32.80	23.30	0.03
		62 (17)	51.40	38.60	0.03	44.90	35.00	0.03	37.90	31.40	0.03	30.60	27.80	0.04	24.40	24.40	0.08
	1400	72 (22)	90.20	43.80	0.00	82.60	40.10	0.00	74.10	36.20	0.01	64.70	32.00	0.04	54.40	27.60	0.05
		67 (19)	75.80	46.00	0.05	68.00	42.00	0.05	59.40	37.70	0.06	50.00	33.40	0.06	39.60	28.90	0.06
		62 (17)	62.60	47.70	0.06	54.70	43.50	0.06	46.20	39.20	0.06	37.50	35.00	0.07	30.70	30.70	0.13
	1750	72 (22)	103.00	50.00	0.00	94.30	46.00	0.00	84.60	41.50	0.05	73.90	36.80	0.06	62.00	32.00	0.07
		67 (19)	86.70	53.10	0.08	77.80	48.60	0.08	68.00	43.90	0.08	57.10	39.00	0.08	45.20	33.90	0.09
		62 (17)	71.70	55.70	0.09	62.70	50.90	0.09	53.10	46.20	0.09	43.40	41.50	0.10	36.30	36.30	0.18
4324	1050	72 (22)	96.72	47.64	0.00	89.31	43.85	0.00	80.91	39.78	0.00	71.39	35.44	0.00	60.74	30.89	0.01
		67 (19)	80.93	49.26	0.01	73.30	45.20	0.01	64.67	40.88	0.01	54.97	36.34	0.01	43.99	31.53	0.01
		62 (17)	66.64	50.56	0.01	58.77	46.28	0.01	50.10	41.84	0.01	40.70	37.29	0.02	32.63	32.63	0.07
	1400	72 (22)	117.07	57.30	0.00	108.20	53.03	0.00	98.03	48.31	0.01	86.74	43.33	0.02	73.81	37.96	0.02
		67 (19)	98.18	60.23	0.03	89.03	55.55	0.03	78.69	50.55	0.03	66.93	45.19	0.03	53.54	39.46	0.03
		62 (17)	81.03	62.70	0.03	71.60	57.72	0.03	61.25	52.56	0.03	50.15	47.21	0.03	41.46	41.46	0.11
	1750	72 (22)	133.38	65.28	0.00	123.30	60.58	0.02	111.98	55.48	0.03	99.21	50.01	0.04	84.49	44.04	0.04
		67 (19)	112.09	69.50	0.04	101.79	64.41	0.05	90.14	58.95	0.05	76.76	52.99	0.05	61.46	46.55	0.05
		62 (17)	92.72	73.26	0.05	82.16	67.85	0.05	70.58	62.18	0.05	58.38	56.24	0.06	49.33	49.33	0.15
4821 4824 T4821	1200	72 (22)	79.30	38.70	0.00	72.90	35.40	0.00	65.70	31.90	0.00	57.70	28.20	0.00	48.80	24.40	0.01
		67 (19)	66.60	40.20	0.02	60.00	36.60	0.02	52.70	32.90	0.02	44.60	29.10	0.02	35.70	25.10	0.03
		62 (17)	55.00	41.30	0.03	48.30	37.60	0.03	40.90	33.80	0.03	33.10	30.00	0.03	26.30	26.30	0.07
	1600	72 (22)	96.00	46.60	0.00	88.30	42.90	0.00	79.60	38.90	0.00	69.90	34.50	0.03	59.10	30.00	0.04
		67 (19)	80.90	49.20	0.04	72.90	45.00	0.04	64.10	40.70	0.05	54.20	36.10	0.05	43.30	31.40	0.05
		62 (17)	67.00	51.20	0.05	58.80	46.80	0.05	49.90	42.30	0.05	40.70	37.90	0.05	33.30	33.30	0.11
	2000	72 (22)	109.40	53.10	0.00	100.70	49.10	0.00	90.90	44.60	0.03	79.90	39.80	0.05	67.50	34.70	0.06
		67 (19)	92.40	56.70	0.06	83.40	52.20	0.07	73.30	47.40	0.07	62.00	42.20	0.07	49.50	36.90	0.07
		62 (17)	76.70	59.70	0.07	67.50	54.90	0.08	57.40	49.90	0.08	47.20	44.90	0.08	39.50	39.50	0.16
6024 T6024	1600	72 (22)	103.20	50.40	0.00	94.40	45.90	0.00	84.80	41.10	0.00	74.10	36.30	0.00	62.40	31.20	0.02
		67 (19)	86.40	52.10	0.02	77.50	47.20	0.02	67.80	42.30	0.02	57.10	37.20	0.03	45.40	32.10	0.03
		62 (17)	71.20	53.30	0.03	62.20	48.30	0.03	52.40	43.30	0.03	42.30	38.30	0.03	33.50	33.50	0.07
	2000	72 (22)	120.70	58.70	0.00	110.40	53.60	0.00	99.00	48.20	0.00	86.40	42.50	0.02	72.60	36.70	0.03
		67 (19)	101.20	61.30	0.03	90.70	55.70	0.04	79.20	50.00	0.04	66.60	44.10	0.04	52.80	38.10	0.05
		62 (17)	83.40	63.20	0.05	72.80	57.40	0.05	61.40	51.60	0.05	49.70	46.00	0.05	40.30	40.30	0.11
	2400	72 (22)	135.60	65.80	0.00	124.10	60.30	0.00	111.20	54.40	0.01	97.00	48.00	0.04	81.30	41.50	0.05
		67 (19)	113.90	69.30	0.05	102.10	63.20	0.06	89.10	56.90	0.06	74.80	50.30	0.06	59.20	43.60	0.06
		62 (17)	94.10	72.10	0.06	82.10	65.70	0.06	69.30	59.30	0.06	56.40	53.00	0.07	46.50	46.50	0.14
6124 T6124	1600	72 (22)	146.13	71.69	0.00	134.50	65.77	0.00	121.56	59.54	0.00	106.83	52.86	0.00	90.32	45.83	0.01
		67 (19)	122.06	74.12	0.02	110.18	67.82	0.02	96.85	61.17	0.02	81.83	54.15	0.02	64.91	46.78	0.02
		62 (17)	100.28	76.03	0.02	88.07	69.40	0.02	74.72	62.59	0.02	60.46	55.67	0.02	48.56	48.56	0.08
	2000	72 (22)	169.63	82.84	0.00	156.39	76.39	0.00	141.33	69.41	0.01	124.36	61.86	0.02	105.10	53.83	0.02
		67 (19)	142.02	86.75	0.03	128.36	79.72	0.03	112.89	72.20	0.03	95.38	64.18	0.03	75.60	55.70	0.03
		62 (17)	116.90	89.93	0.03	102.76	82.43	0.03	87.41	74.75	0.03	71.17	66.88	0.04	58.57	58.57	0.11
	2400	72 (22)	189.44	92.42	0.00	174.81	85.58	0.00	158.22	77.98	0.02	139.30	69.76	0.03	117.75	60.94	0.04
		67 (19)	158.99	97.85	0.04	143.83	90.25	0.04	126.61	82.05	0.04	107.02	73.24	0.05	84.86	63.87	0.05
		62 (17)	131.10	102.40	0.05	115.46	94.29	0.05	98.49	85.91	0.05	80.79	77.29	0.06	67.60	67.60	0.14

Legend:

CFM – Cubic Ft. per Minute EWB – Entering Wet Bulb LWB – Leaving Wet Bulb TC – Gross Cooling Capacity 1000 Btuh
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor MBH – 1000 Btuh

See notes on following page.

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB}\text{)}$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$
 Where h_{EWB} = enthalpy of air entering coil
3. SHC is based on 80°F (27°C) db temperature of air entering the evaporator coil.
 Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.
 Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8-in. suction tube connection adapter is available as accessory.
8. The CNPVP, CNPVT and CNPVU coils can be used in any properly designed system using Puron refrigerant.
9. CNRVU coils can be used in any properly designed system using R-22 refrigerant.
10. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
11. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

BYPASS FACTOR	ENTERING AIR DRY BULB TEMPERATURE °F (°C)					
	79 (26)	78 (26)	77 (25)	76 (24)	75 (24)	Under 75 (24)
	81 (27)	82 (28)	83 (28)	84 (29)	84 (29)	Above 85 (29)
Correction Factor						
0.10	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

COOLING CAPACITIES (MBH) - R-22 REFRIGERANT

CNRV UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
			CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC
1814	450	72 (22)	28.60	13.90	0.00	26.60	12.90	0.00	24.20	11.80	0.00	21.60	10.60	0.00	18.60	9.40	0.00
		67 (19)	24.20	14.80	0.01	22.10	13.70	0.01	19.70	12.50	0.01	16.80	11.20	0.01	13.50	9.70	0.01
		62 (17)	20.20	15.50	0.01	18.00	14.30	0.01	15.40	13.00	0.01	12.50	11.70	0.01	10.20	10.20	0.08
	600	72 (22)	33.70	16.40	0.00	31.40	15.30	0.00	28.70	14.10	0.00	25.60	12.80	0.01	22.00	11.40	0.01
		67 (19)	28.70	17.80	0.02	26.20	16.60	0.02	23.40	15.30	0.02	20.10	13.80	0.02	16.30	12.20	0.02
		62 (17)	24.00	19.00	0.02	21.50	17.80	0.02	18.60	16.40	0.02	15.40	14.80	0.03	13.00	13.00	0.12
	750	72 (22)	37.50	18.40	0.01	35.00	17.30	0.01	32.10	16.00	0.02	28.70	14.60	0.02	24.60	13.00	0.03
		67 (19)	32.00	20.30	0.03	29.40	19.10	0.03	26.20	17.70	0.03	22.60	16.10	0.03	18.60	14.40	0.03
		62 (17)	26.90	22.10	0.03	24.20	20.80	0.04	21.10	19.30	0.04	17.90	17.70	0.05	15.40	15.40	0.16
2414 2417	600	72 (22)	34.60	16.80	0.00	32.30	15.70	0.00	29.60	14.60	0.00	26.50	13.20	0.00	22.90	11.80	0.01
		67 (19)	29.40	18.30	0.01	27.00	17.10	0.01	24.20	15.70	0.01	20.90	14.30	0.01	17.10	12.60	0.02
		62 (17)	24.70	19.50	0.02	22.20	18.30	0.02	19.30	16.80	0.02	16.00	15.30	0.02	13.40	13.40	0.10
	800	72 (22)	39.50	19.40	0.01	37.10	18.40	0.01	34.20	17.10	0.02	30.70	15.70	0.02	26.60	14.10	0.02
		67 (19)	33.90	21.60	0.03	31.20	20.40	0.03	28.00	19.00	0.03	24.30	17.40	0.03	20.10	15.60	0.03
		62 (17)	28.60	23.70	0.03	25.80	22.30	0.03	22.60	20.80	0.04	19.30	19.10	0.05	16.80	16.80	0.16
	1000	72 (22)	43.20	21.50	0.03	40.60	20.50	0.04	37.50	19.20	0.04	33.80	17.70	0.04	29.30	16.00	0.04
		67 (19)	37.10	24.50	0.05	34.30	23.20	0.05	30.90	21.80	0.05	26.80	20.10	0.05	22.20	18.20	0.05
		62 (17)	31.50	27.30	0.05	28.60	25.90	0.05	25.30	24.30	0.06	22.30	22.30	0.11	19.60	19.60	0.21
3014 3017	750	72 (22)	45.90	22.30	0.00	42.50	20.60	0.00	38.60	18.80	0.00	34.10	16.80	0.01	28.60	14.60	0.01
		67 (19)	38.90	23.70	0.02	35.30	21.90	0.02	31.00	19.80	0.02	26.00	17.50	0.02	20.30	15.10	0.02
		62 (17)	32.30	24.80	0.02	28.30	22.80	0.02	24.00	20.60	0.02	19.30	18.30	0.03	15.90	15.90	0.12
	1000	72 (22)	53.80	26.20	0.00	49.90	24.40	0.01	45.40	22.40	0.02	40.30	20.20	0.03	34.30	17.80	0.03
		67 (19)	45.70	28.40	0.03	41.60	26.40	0.04	37.00	24.20	0.04	31.20	21.70	0.04	24.40	18.80	0.04
		62 (17)	38.30	30.40	0.04	34.00	28.20	0.04	29.00	25.80	0.04	23.80	23.20	0.06	20.00	20.00	0.16
	1250	72 (22)	59.80	29.30	0.03	55.50	27.40	0.04	50.60	25.30	0.04	44.80	22.90	0.05	38.40	20.40	0.05
		67 (19)	50.90	32.30	0.06	46.40	30.20	0.06	41.30	27.80	0.06	35.40	25.30	0.06	27.90	22.20	0.06
		62 (17)	42.70	35.10	0.06	38.30	32.90	0.06	33.10	30.30	0.07	27.70	27.50	0.09	23.70	23.70	0.21
3617 3621	900	72 (22)	53.50	26.00	0.00	49.50	24.10	0.00	45.10	22.10	0.01	40.00	19.90	0.02	33.80	17.40	0.02
		67 (19)	45.40	27.90	0.03	41.30	25.90	0.03	36.60	23.70	0.03	30.70	21.10	0.03	24.00	18.30	0.03
		62 (17)	37.90	29.70	0.03	33.50	27.40	0.03	28.50	24.90	0.03	23.20	22.30	0.05	19.30	19.30	0.15
	1200	72 (22)	61.60	30.10	0.02	57.20	28.20	0.03	52.10	26.00	0.04	46.20	23.50	0.04	39.60	20.90	0.05
		67 (19)	52.40	33.10	0.05	47.80	30.90	0.05	42.50	28.50	0.05	36.30	25.80	0.06	28.60	22.60	0.06
		62 (17)	44.00	35.90	0.06	39.40	33.60	0.06	34.00	30.90	0.06	28.30	28.00	0.08	24.10	24.10	0.20
	1500	72 (22)	67.50	33.40	0.06	62.90	31.40	0.06	57.40	29.10	0.07	50.80	26.50	0.07	43.60	23.70	0.08
		67 (19)	57.70	37.40	0.08	52.70	35.10	0.08	46.90	32.60	0.08	40.30	29.80	0.08	32.20	26.50	0.09
		62 (17)	48.60	41.20	0.08	43.70	38.80	0.09	38.30	36.10	0.09	32.90	32.90	0.13	28.30	28.30	0.25
4221 4224	1050	72 (22)	67.70	32.90	0.00	62.50	30.40	0.00	56.50	27.60	0.00	49.70	24.70	0.02	42.30	21.60	0.02
		67 (19)	57.10	35.00	0.03	51.70	32.20	0.03	45.60	29.30	0.03	38.80	26.20	0.03	30.30	22.60	0.03
		62 (17)	47.40	36.80	0.03	41.90	33.90	0.03	35.70	30.80	0.03	28.90	27.50	0.04	23.80	23.80	0.13
	1400	72 (22)	79.00	38.50	0.00	73.10	35.80	0.02	66.20	32.80	0.04	58.30	29.40	0.04	49.30	25.90	0.05
		67 (19)	66.90	41.80	0.05	60.70	38.70	0.05	53.50	35.40	0.06	45.50	31.90	0.06	36.30	28.10	0.06
		62 (17)	55.70	44.70	0.06	49.40	41.50	0.06	42.60	38.10	0.06	35.40	34.50	0.08	29.90	29.90	0.18
	1750	72 (22)	87.40	42.90	0.04	81.00	40.10	0.06	73.60	37.00	0.07	64.90	33.40	0.07	54.80	29.50	0.08
		67 (19)	74.30	47.40	0.08	67.60	44.20	0.08	59.70	40.60	0.08	50.60	36.70	0.08	40.90	32.80	0.09
		62 (17)	62.20	51.40	0.09	55.30	48.10	0.09	47.90	44.50	0.09	40.70	40.70	0.11	35.20	35.20	0.23
4821 4824	1200	72 (22)	72.40	35.20	0.00	67.30	32.70	0.00	61.20	30.00	0.00	54.20	27.00	0.01	46.30	23.70	0.02
		67 (19)	61.40	37.70	0.02	55.90	35.00	0.02	49.50	32.00	0.02	42.40	28.80	0.02	34.10	25.20	0.03
		62 (17)	51.20	40.00	0.03	45.50	37.00	0.03	39.20	33.90	0.03	32.20	30.50	0.03	26.70	26.70	0.12
	1600	72 (22)	83.80	41.00	0.00	78.00	38.40	0.02	71.30	35.40	0.03	63.30	32.10	0.03	54.00	28.50	0.04
		67 (19)	71.40	44.90	0.04	65.20	42.00	0.04	58.00	38.70	0.05	49.50	35.00	0.05	40.30	31.20	0.05
		62 (17)	59.80	48.50	0.05	53.40	45.30	0.05	46.30	41.90	0.05	39.00	38.30	0.07	33.40	33.40	0.17
	2000	72 (22)	92.10	45.50	0.04	86.00	42.90	0.05	78.70	39.80	0.05	70.10	36.40	0.06	60.00	32.50	0.06
		67 (19)	78.70	50.90	0.07	72.10	47.80	0.07	64.30	44.40	0.07	55.10	40.40	0.07	44.90	36.30	0.07
		62 (17)	66.30	55.90	0.07	59.60	52.60	0.07	52.10	48.90	0.08	44.90	44.90	0.11	39.20	39.20	0.22
6024	1600	72 (22)	93.60	45.40	0.00	86.30	41.90	0.00	77.90	38.00	0.00	68.30	33.80	0.01	58.00	29.60	0.02
		67 (19)	78.90	48.10	0.02	71.20	44.20	0.02	62.70	40.10	0.02	53.20	35.70	0.03	41.70	30.80	0.03
		62 (17)	65.40	50.40	0.03	57.70	46.30	0.03	49.20	42.00	0.03	39.60	37.40	0.04	32.50	32.50	0.12
	2000	72 (22)	106.40	51.70	0.00	98.20	47.90	0.00	88.80	43.70	0.02	78.00	39.10	0.03	65.80	34.10	0.03
		67 (19)	89.90	55.50	0.04	81.30	51.30	0.04	71.50	46.70	0.04	60.60	41.80	0.04	48.30	36.60	0.04
		62 (17)	74.70	58.90	0.04	65.90	54.40	0.04	56.60	49.70	0.05	46.50	44.80	0.06	38.90	38.90	0.16
	2400	72 (22)	116.60	57.00	0.00	107.90	53.00	0.03	97.70	48.50	0.04	85.90	43.60	0.05	72.30	38.20	0.05
		67 (19)	98.90	61.90	0.06	89.60	57.50	0.06	78.90	52.50	0.06	66.60	47.20	0.06	53.70	41.80	0.06
		62 (17)	82.30	66.40	0.06	72.90	61.70	0.06	62.70	56.70	0.07	52.60	51.60	0.08	44.70	44.70	0.19

Legend:

CFM - Cubic Ft. per Minute EWB - Entering Wet Bulb LWB - Leaving Wet Bulb TC - Gross Cooling Capacity 1000 Btu/h
 SHC - Gross Sensible Capacity 1000 Btu/h BF - Bypass Factor MBH - 1000 Btu/h

See notes previous page.

COIL STATIC PRESSURE DROP (in. w.c.) PURON and R-22 REFRIGERANTS

UNIT SIZE	Standard CFM																		
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
1814	Dry																		
	0.078	0.114	0.156	0.198	0.253														
1917	Wet																		
	0.096	0.138	0.183	0.213	0.277														
2414	Dry																		
	0.042	0.060	0.080	0.102	0.128														
2417	Wet																		
	0.055	0.076	0.104	0.127	0.158														
2414	Dry																		
	0.070	0.103	0.143	0.182	0.233	0.290	0.354												
2417	Wet																		
	0.089	0.128	0.171	0.214	0.269	0.336	0.413												
3014	Dry																		
	0.048	0.068	0.090	0.112	0.140	0.170	0.203												
3017	Wet																		
	0.064	0.091	0.122	0.150	0.188	0.224	0.263												
3117	Dry																		
	0.065	0.097	0.135	0.173	0.223	0.278	0.339	0.405	0.478										
3617	Wet																		
	0.078	0.114	0.160	0.206	0.260	0.321	0.388	0.461	0.540										
T3617	Dry																		
	0.042	0.060	0.080	0.102	0.128	0.157	0.188	0.222	0.259										
3621	Wet																		
	0.055	0.076	0.104	0.127	0.158	0.190	0.225	0.266	0.309										
T4221	Dry																		
	0.031	0.046	0.063	0.083	0.105	0.130	0.156	0.193	0.230										
4217	Wet																		
	0.039	0.056	0.075	0.097	0.121	0.149	0.179	0.212	0.249										
4821	Dry																		
	0.043	0.061	0.082	0.103	0.128	0.157	0.189	0.221	0.259	0.299	0.341								
T4821	Wet																		
	0.056	0.079	0.107	0.133	0.166	0.200	0.236	0.276	0.315	0.361	0.413								
4824	Dry																		
	0.035	0.048	0.062	0.076	0.093	0.111	0.132	0.153	0.177	0.201	0.228								
6024	Wet																		
	0.049	0.066	0.085	0.100	0.122	0.144	0.171	0.192	0.217	0.245	0.276								
T6024	Dry																		
	0.025	0.038	0.054	0.072	0.093	0.117	0.143	0.171	0.205	0.233	0.273								
6124	Wet																		
	0.030	0.044	0.061	0.079	0.103	0.125	0.154	0.182	0.216	0.251	0.288								
T6124	Dry																		
			0.072	0.093	0.118	0.145	0.175	0.206	0.243	0.281	0.322	0.366	0.413						
6124	Wet																		
			0.079	0.102	0.130	0.159	0.192	0.228	0.26	0.303	0.348	0.396	0.446						
T6124	Dry																		
	0.030	0.041	0.054	0.066	0.082	0.099	0.118	0.137	0.158	0.180	0.205	0.231	0.259						
6024	Wet																		
	0.043	0.059	0.078	0.101	0.126	0.153	0.181	0.207	0.234	0.260	0.288	0.319	0.354						
T6024	Dry																		
				0.053	0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273	0.293
6124	Wet																		
				0.067	0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258				
T6124	Dry																		
			0.047	0.060	0.075	0.092	0.110	0.130	0.152	0.176	0.204	0.230	0.256	0.284	0.318				
6024	Wet																		
			0.053	0.067	0.085	0.104	0.125	0.147	0.172	0.200	0.228	0.259	0.292	0.327	0.365				
T6024	Dry																		
			0.015	0.046	0.057	0.069	0.094	0.100	0.119	0.124	0.140	0.158	0.175	0.195	0.214				
6124	Wet																		
			0.032	0.050	0.066	0.081	0.097	0.114	0.131	0.150	0.169	0.190	0.211	0.233	0.257				
T6124	Dry																		
					0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273	0.293
6124	Wet																		
					0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258	0.283	0.310	0.336	0.366
T6124	Dry																		
											0.130	0.140	0.160	0.180	0.200	0.220	0.240	0.270	0.290
6124	Wet																		
											0.150	0.170	0.190	0.210	0.230	0.260	0.290	0.310	0.340

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Carrier

Model: FB4CNF-P

FB4C AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FB4C 018	Tap 5	767	739	702	669	620	565
	Tap 4	614	589	534	486	436	398
	Tap 3	701	660	616	581	537	499
	Tap 2	614	589	534	486	436	398
	Tap 1	410	350	304	261	228	203
FB4C 024 & 025	Tap 5	969	936	892	835	763	676
	Tap 4	826	795	766	743	706	660
	Tap 3	826	795	766	743	706	660
	Tap 2	701	660	616	581	537	499
	Tap 1	617	592	552	507	472	420
FB4C 030	Tap 5	1108	1090	1065	1034	1009	974
	Tap 4	1026	1000	969	938	899	865
	Tap 3	1026	1000	969	938	899	865
	Tap 2	909	873	842	799	762	724
	Tap 1	826	795	757	722	674	634
FB4C 036	Tap 5	1301	1276	1245	1218	1176	1121
	Tap 4	1227	1191	1169	1143	1105	1074
	Tap 3	1227	1191	1169	1143	1105	1074
	Tap 2	1087	1062	1030	1001	966	930
	Tap 1	1026	1000	969	938	899	865
FB4C 042	Tap 5	1560	1544	1507	1464	1424	1358
	Tap 4	1419	1397	1358	1320	1279	1239
	Tap 3	1419	1397	1358	1320	1279	1239
	Tap 2	1249	1220	1184	1142	1093	1052
	Tap 1	1242	1205	1158	1110	1069	1026
FB4C 048	Tap 5	1743	1712	1679	1642	1610	1574
	Tap 4	1669	1634	1599	1564	1531	1499
	Tap 3	1669	1634	1599	1564	1531	1499
	Tap 2	1452	1413	1377	1339	1308	1271
	Tap 1	1300	1256	1221	1182	1142	1101
FB4C 060	Tap 5	1897	1867	1836	1808	1774	1736
	Tap 4	1817	1785	1757	1724	1693	1655
	Tap 3	1817	1785	1757	1724	1693	1655
	Tap 2	1657	1621	1589	1557	1518	1474
	Tap 1	1443	1412	1377	1332	1286	1243
FB4C 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

- Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 036, 3 element heater sizes 042 through 061). For FB4C models, airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in. wc. Horizontal applications of 042 - 061 sizes must have supply static greater than 0.20 in. wc.
- Airflow above 400 cfm/ton on 048-061 size could result in condensate blowing off coil or splashing out of drain pan.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

FB4C Unit Size	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)															
		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13			
		TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	
018	525	72 / 22	41	20	0.00	37	17	0.00	32	15	0.00	27	13	0.02	21	11	0.03
		67 / 19	33	20	0.03	29	18	0.03	24	16	0.03	19	13	0.03	13	11	0.04
		62 / 17	26	20	0.03	22	18	0.03	18	16	0.04	14	14	0.10	11	11	0.26
	600	72 / 22	45	22	0.00	40	19	0.00	35	17	0.01	30	15	0.03	23	12	0.04
		67 / 19	37	22	0.04	32	20	0.04	27	17	0.04	21	15	0.04	15	12	0.05
		62 / 17	29	22	0.04	24	20	0.04	19	18	0.05	15	15	0.12	13	13	0.28
	675	72 / 22	49	24	0.00	44	21	0.00	38	19	0.03	32	16	0.04	25	13	0.05
		67 / 19	40	24	0.05	35	22	0.05	29	19	0.05	23	16	0.05	16	14	0.06
		62 / 17	32	25	0.05	27	22	0.05	21	19	0.06	17	17	0.14	14	14	0.29
024	700	72 / 22	43	22	0.00	38	20	0.00	33	17	0.03	28	15	0.04	22	12	0.05
		67 / 19	35	23	0.05	30	20	0.05	25	18	0.05	20	15	0.05	14	13	0.06
		62 / 17	28	23	0.06	23	21	0.06	18	18	0.06	15	15	0.14	12	12	0.29
	800	72 / 22	47	24	0.00	42	22	0.01	36	19	0.04	31	17	0.06	24	14	0.06
		67 / 19	38	25	0.06	33	22	0.06	28	20	0.07	22	17	0.07	15	14	0.08
		62 / 17	30	26	0.07	25	23	0.07	20	20	0.08	16	16	0.17	13	13	0.31
	900	72 / 22	51	26	0.00	45	24	0.03	40	21	0.06	33	18	0.07	26	15	0.07
		67 / 19	41	27	0.07	36	25	0.08	30	22	0.08	24	19	0.08	17	16	0.09
		62 / 17	33	28	0.08	28	25	0.08	22	22	0.09	18	18	0.19	15	15	0.33
025	700	72 / 22	53	26	0.00	47	23	0.00	41	21	0.00	35	18	0.02	27	15	0.03
		67 / 19	43	27	0.03	37	24	0.03	31	21	0.03	25	18	0.03	17	15	0.04
		62 / 17	34	27	0.03	28	24	0.03	23	21	0.04	18	18	0.10	14	14	0.26
	800	72 / 22	58	29	0.00	52	26	0.00	46	23	0.01	38	20	0.03	30	16	0.04
		67 / 19	47	30	0.04	41	26	0.04	35	23	0.04	27	20	0.04	19	17	0.05
		62 / 17	38	30	0.04	32	27	0.04	25	24	0.05	20	20	0.12	16	16	0.28
	900	72 / 22	63	32	0.00	57	28	0.00	50	25	0.03	41	21	0.04	33	18	0.05
		67 / 19	52	32	0.05	45	29	0.05	38	25	0.05	30	22	0.05	21	18	0.06
		62 / 17	41	33	0.05	34	29	0.05	27	26	0.06	22	22	0.14	18	18	0.29
030	875	72 / 22	62	31	0.00	56	28	0.00	49	24	0.02	41	21	0.04	32	17	0.04
		67 / 19	51	32	0.04	44	28	0.05	37	25	0.05	29	21	0.05	21	18	0.05
		62 / 17	40	32	0.05	34	29	0.05	27	25	0.06	21	21	0.13	18	18	0.28
	1000	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	19	0.06
		67 / 19	56	35	0.06	49	31	0.06	41	28	0.06	32	24	0.06	22	20	0.07
		62 / 17	44	36	0.06	37	32	0.06	29	28	0.07	24	24	0.16	20	20	0.30
	1125	72 / 22	74	37	0.00	66	33	0.02	58	29	0.05	48	25	0.06	38	21	0.07
		67 / 19	60	38	0.07	53	34	0.07	44	30	0.07	35	26	0.07	24	22	0.08
		62 / 17	48	39	0.07	40	35	0.07	32	31	0.09	26	26	0.18	21	21	0.32
036	1050	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	20	0.06
		67 / 19	56	36	0.06	49	32	0.06	41	28	0.06	32	24	0.07	22	20	0.07
		62 / 17	44	36	0.06	37	33	0.07	30	29	0.08	24	24	0.17	20	20	0.31
	1200	72 / 22	75	38	0.00	67	34	0.03	58	30	0.06	49	26	0.07	38	22	0.07
		67 / 19	61	39	0.07	53	35	0.08	45	31	0.08	35	27	0.08	25	22	0.09
		62 / 17	49	40	0.08	41	36	0.08	32	32	0.09	26	26	0.19	22	22	0.33
	1350	72 / 22	81	41	0.00	72	37	0.05	63	32	0.07	53	28	0.08	41	23	0.09
		67 / 19	66	43	0.08	58	38	0.09	48	34	0.09	38	29	0.09	27	25	0.10
		62 / 17	53	44	0.09	44	40	0.09	35	35	0.11	29	29	0.22	24	24	0.35
042	1225	72 / 22	89	44	0.00	80	40	0.00	70	35	0.02	58	30	0.03	46	25	0.04
		67 / 19	73	45	0.04	63	41	0.04	53	36	0.04	42	31	0.04	29	25	0.05
		62 / 17	58	46	0.04	48	41	0.04	38	36	0.05	30	30	0.12	25	25	0.28
	1400	72 / 22	98	49	0.00	88	44	0.00	77	39	0.03	64	33	0.04	50	28	0.05
		67 / 19	80	50	0.05	70	45	0.05	58	39	0.05	46	34	0.05	32	28	0.06
		62 / 17	64	51	0.06	53	46	0.06	42	40	0.06	34	34	0.14	28	28	0.29
	1575	72 / 22	106	53	0.00	95	48	0.00	83	42	0.04	69	36	0.05	54	30	0.06
		67 / 19	87	55	0.06	76	49	0.06	63	43	0.06	50	37	0.07	35	31	0.07
		62 / 17	69	56	0.07	58	50	0.07	46	44	0.08	37	37	0.17	31	31	0.31

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT (Continued)

FB4C Unit Size	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)															
		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13			
		TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	
048	1400	72 / 22	88	46	0.00	79	42	0.00	69	37	0.03	58	31	0.04	45	26	0.05
		67 / 19	72	48	0.05	63	43	0.05	52	37	0.05	41	32	0.05	29	27	0.06
		62 / 17	57	49	0.06	48	43	0.06	38	38	0.06	30	30	0.14	25	25	0.29
	1600	72 / 22	97	51	0.00	87	46	0.01	75	40	0.04	63	35	0.06	49	29	0.06
		67 / 19	79	52	0.06	69	47	0.06	57	41	0.07	45	36	0.07	32	30	0.08
		62 / 17	63	54	0.07	53	48	0.07	42	42	0.08	34	34	0.17	28	28	0.31
	1800	72 / 22	105	55	0.00	94	50	0.03	82	44	0.06	68	38	0.07	54	31	0.07
		67 / 19	86	57	0.07	75	51	0.08	62	45	0.08	49	39	0.08	34	33	0.09
		62 / 17	68	59	0.08	57	53	0.08	45	47	0.09	37	37	0.19	30	30	0.33
060	1600	72 / 22	106	54	0.00	95	49	0.00	82	43	0.01	69	37	0.03	54	31	0.04
		67 / 19	86	56	0.04	75	50	0.04	63	44	0.04	49	37	0.04	35	31	0.05
		62 / 17	68	56	0.04	57	50	0.04	45	44	0.05	36	36	0.12	29	29	0.28
	1750	72 / 22	113	58	0.00	101	52	0.00	88	46	0.02	74	39	0.04	58	33	0.04
		67 / 19	92	59	0.04	80	53	0.05	67	47	0.05	53	40	0.05	37	33	0.05
		62 / 17	73	61	0.05	61	54	0.05	49	48	0.06	39	39	0.13	32	32	0.28
	2000	72 / 22	124	64	0.00	111	57	0.00	97	50	0.04	81	43	0.05	63	36	0.06
		67 / 19	101	66	0.06	88	59	0.06	74	52	0.06	58	44	0.06	41	37	0.07
		62 / 17	80	67	0.06	67	60	0.06	53	53	0.07	43	43	0.16	35	35	0.30
061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

CFM - Cubic Ft per Minute EWB - Entering Wet Bulb °F (°C) LWB - Leaving Wet Bulb °F (°C) TC - Gross Cooling Capacity 1000 Bnh
 SHC - Gross Sensible Capacity 1000 Bnh BF - Bypass Factor MBH - 1000 Bnh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{wb})
 $h_{wb} = \frac{\text{total capacity (Bnh)}}{4.5 \times \text{CFM}}$
 where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychrometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

**FB4C AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc)
AT INDICATED AIRFLOW (DRY TO WET COIL)**

UNIT SIZE	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
018	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
024	0.034	0.049	0.063	0.076	0.089	—	—	—	—	—	—	—	—	—	—	—
025	0.015	0.026	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
030	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
036	—	—	—	—	—	0.070	0.080	0.090	0.099	—	—	—	—	—	—	—
042	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
048	—	—	—	—	—	—	—	—	—	0.063	0.070	0.076	0.083	0.090	—	—
060	—	—	—	—	—	—	—	—	—	—	—	0.049	0.054	0.059	0.065	0.070
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

FB4C 018 - 036			FB4C 042 - 061		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 018 through 036 size units and 15-kW heaters (3 elements) in the 042 through 061 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

MINIMUM CFM AND MOTOR SPEED SELECTION

FB4C	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
018	525	525	525	—	600	—	—	—	—	—
024 & 025	700	700	700	—	700	775	—	—	—	—
030	—	875	875	—	875	875	—	1060	—	—
036	—	1050	970	970	970	920	—	1040	—	—
042	—	—	1225	1225	1225	1225	1225	1225	—	—
048	—	—	1400	1400	1400	1400	1400	1400	1400	1400
060 & 061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

Speed Tap 4 (white wire) is used for electric heat only. White wire must remain on tap 4.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Carrier

Model: FE4A

AIRFLOW DELIVERY — COOLING, HEATING, ELECTRIC HEATING MODES

The FE4 and FE5A fan coils will provide airflow at a rate that is requested by the Integrated System User Interface during air conditioning or heat pump heating (without electric heat) modes. The nominal airflow for both heating and cooling modes is 350 cfm/ton nominal size of the outdoor unit installed. The airflow actually requested by the User Interface is modified by its internal algorithms for zoning, comfort or efficiency concerns. Refer to the

documentation for the User Interface for more information on how the User Interface controls the fan coil. Safe operation of electric heaters requires airflow delivery at or above the minimum CFM for electric heater application listed in the chart below. The fan coil will adjust its airflow delivery to maintain safe airflow as operating mode and staging conditions require.

FE4A/FE5A FAN COIL AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODELS

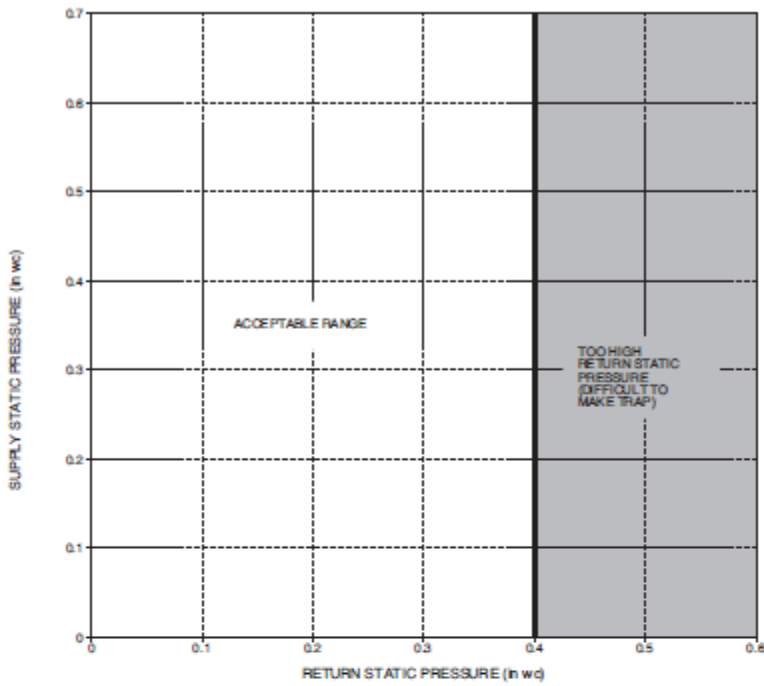
MODEL FE4A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
002	EMERGENCY	625	625	675	775	950	—	—
	18,000	625	625	675	—	—	—	—
	24,000	650	725	775	900	—	—	—
	30,000	800	875	875	925	1125	—	—
	36,000	975	975	975	1025	1125	—	—
003	EMERGENCY	675	700	775	850	1050	—	—
	24,000	675	875	875	1100	1150	—	—
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1350	—	—
005	EMERGENCY	675	700	775	850	1050	1400	1425
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1250	—	—
	48,000	1305	1305	1305	1305	1350	1500	1600
006	EMERGENCY	1050	1050	1050	1050	1125	1750	1750
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—
	48,000	1300	1300	1300	1350	1500	1750	1750
	60,000	1625	1625	1625	1625	1750	1750	1750
MODEL FE5A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
004	EMERGENCY	675	775	775	900	1125	—	—
	24,000	975	975	975	—	—	—	—
	30,000	1050	1050	1100	1125	—	—	—
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—

Note 1: Emergency – Air conditioner with electric heater application, or emergency heat.

Note 2: These airflows are minimum airflows as UL listed.

Note 3: Dashed entry indicates that the heater/fan coil/outdoor unit combination is not approved. Do not apply.

ACCEPTABLE DUCT CONDITIONS



For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

MINIMUM RPM TABLE

MODEL	SYSTEM SIZES	CFM RANGE	MIN RPM
FE4ANF002	018, 024, 030, 036	150 – 1200	300
FE4AN(B,F)003	024, 030, 036, 042	200 – 1400	295
FE4AN(B,F)006	030, 036, 042, 048	250 – 1600	275
FE4ANB006	036, 042, 048, 060	500 – 2000	275
FE5ANB004	024, 030, 036, 042	500 – 1400	275

MAXIMUM STATIC TABLE

MODEL	AIRFLOW DELIVERY	AVAILABLE STATIC PRESSURE
FE4ANF002	625 CFM	1.00 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	0.80 in wc
	1200 CFM	0.60 in wc
FE4AN(B,F)003	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	0.80 in wc
FE4AN(B,F)006	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE4ANB006	1600 CFM	0.50 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE5ANB004	1750 CFM	1.00 in wc
	2000 CFM	0.60 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
FE5ANB004	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc

GROSS COOLING CAPACITIES (MBTUH)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
		35 / 2			40 / 4			45 / 7			50 / 10			56 / 13		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FE4ANR002																
500	72/22	40.19	19.65	0.00	36.23	17.59	0.00	31.86	15.48	0.00	27.00	13.31	0.00	21.65	11.11	0.00
	67/19	32.99	19.92	0.01	28.96	17.79	0.01	24.52	15.62	0.01	19.64	13.40	0.01	14.29	11.17	0.01
	62/17	26.44	20.11	0.01	22.36	17.93	0.01	17.93	15.73	0.01	13.56	13.56	0.03	11.28	11.28	0.19
650	72/22	49.76	24.23	0.00	44.85	21.76	0.00	39.40	19.20	0.00	33.36	16.55	0.01	26.66	13.83	0.01
	67/19	40.90	24.80	0.01	35.90	22.22	0.01	30.37	19.55	0.02	24.27	16.82	0.02	17.58	14.06	0.02
	62/17	32.84	25.24	0.02	27.75	22.56	0.02	22.25	19.85	0.02	17.13	17.13	0.06	14.25	14.25	0.21
875	72/22	61.99	30.08	0.00	55.87	27.15	0.00	49.04	24.04	0.01	41.48	20.80	0.02	33.10	17.46	0.02
	67/19	51.08	31.23	0.03	44.83	28.09	0.03	37.91	24.84	0.03	30.23	21.47	0.03	21.83	18.03	0.03
	62/17	41.11	32.14	0.03	34.76	28.88	0.03	27.91	25.53	0.04	22.04	22.04	0.10	18.33	18.33	0.25
1000	72/22	67.83	32.91	0.00	61.10	29.78	0.00	53.66	26.40	0.02	45.36	22.89	0.03	36.17	19.27	0.03
	67/19	55.96	34.39	0.04	49.12	31.01	0.04	41.53	27.48	0.04	33.11	23.83	0.04	23.88	20.06	0.04
	62/17	45.09	35.62	0.04	38.13	32.08	0.04	30.69	28.43	0.06	24.54	24.54	0.12	20.40	20.40	0.27
1250	72/22	77.77	37.84	0.00	70.13	34.30	0.03	61.59	30.55	0.06	52.04	26.60	0.06	41.42	22.50	0.05
	67/19	64.36	40.02	0.06	56.52	36.24	0.06	47.77	32.27	0.06	38.04	28.12	0.06	27.46	23.81	0.07
	62/17	51.98	41.92	0.06	44.00	37.93	0.06	35.61	33.77	0.08	29.12	29.12	0.16	24.20	24.20	0.30
FE4ANR003																
600	72/22	43.01	20.98	0.00	38.69	18.78	0.00	33.92	16.51	0.00	28.64	14.18	0.00	22.85	11.81	0.01
	67/19	35.27	21.34	0.01	30.88	19.04	0.01	26.07	16.71	0.01	20.79	14.34	0.01	15.03	11.96	0.01
	62/17	28.24	21.59	0.01	23.81	19.25	0.01	19.05	16.90	0.02	14.56	14.56	0.05	12.11	12.11	0.21
800	72/22	53.83	26.15	0.00	48.40	23.49	0.00	42.36	20.71	0.00	36.72	17.83	0.02	28.38	14.89	0.02
	67/19	44.23	26.92	0.02	38.71	24.10	0.02	32.61	21.20	0.03	25.91	18.24	0.03	18.65	15.26	0.03
	62/17	35.47	27.49	0.03	29.87	24.58	0.03	23.89	21.65	0.03	18.67	18.67	0.09	15.51	15.51	0.24
1000	72/22	63.07	30.60	0.00	56.66	27.57	0.00	49.58	24.36	0.02	41.76	21.04	0.03	33.10	17.62	0.03
	67/19	51.91	31.82	0.04	45.41	28.58	0.04	38.24	25.24	0.04	30.31	21.78	0.04	21.76	18.29	0.05
	62/17	41.71	32.80	0.04	35.12	29.43	0.04	28.13	26.00	0.06	22.41	22.41	0.12	18.60	18.60	0.27
1200	72/22	71.01	34.48	0.00	63.77	31.12	0.02	55.79	27.57	0.04	46.96	23.88	0.05	37.18	20.08	0.05
	67/19	58.54	36.17	0.05	51.21	32.59	0.05	43.10	28.87	0.06	34.13	25.02	0.06	24.47	21.08	0.06
	62/17	47.12	37.60	0.06	39.70	33.86	0.06	31.89	30.00	0.07	25.83	25.83	0.15	21.43	21.43	0.29
1400	72/22	77.96	37.96	0.01	70.07	34.31	0.04	61.29	30.47	0.06	51.54	26.47	0.06	40.78	22.33	0.07
	67/19	64.44	40.15	0.07	56.37	36.28	0.07	47.43	32.24	0.07	37.54	28.04	0.07	26.89	23.69	0.08
	62/17	51.96	42.08	0.07	43.78	37.99	0.08	35.30	33.73	0.09	28.96	28.96	0.19	24.01	24.01	0.32
FE3ANR004																
600	72/22	40.42	19.84	0.00	36.59	17.80	0.00	32.35	15.70	0.00	27.64	13.54	0.00	22.39	11.33	0.00
	67/19	33.22	20.00	0.00	29.31	17.90	0.00	24.99	15.74	0.00	20.19	13.53	0.00	14.87	11.27	0.00
	62/17	26.67	20.11	0.00	22.69	17.96	0.00	18.31	15.75	0.00	13.60	13.54	0.00	11.29	11.29	0.17
800	72/22	52.07	25.46	0.00	47.19	22.92	0.00	41.75	20.28	0.00	35.66	17.53	0.00	28.84	14.70	0.00
	67/19	42.88	25.89	0.00	37.88	23.24	0.00	32.31	20.49	0.00	26.10	17.66	0.00	19.18	14.75	0.00
	62/17	34.51	26.21	0.00	29.39	23.46	0.00	23.73	20.64	0.00	17.81	17.81	0.01	14.85	14.85	0.18
1000	72/22	62.54	30.48	0.00	56.75	27.53	0.00	50.25	24.45	0.00	42.94	21.21	0.00	34.73	17.84	0.00
	67/19	51.63	31.28	0.00	45.66	28.17	0.01	38.98	24.93	0.01	31.49	21.55	0.01	23.12	18.06	0.01
	62/17	41.66	31.91	0.01	35.51	28.66	0.01	28.71	25.30	0.01	21.89	21.89	0.03	18.26	18.26	0.19
1200	72/22	71.89	34.94	0.00	65.33	31.70	0.00	57.89	28.24	0.00	49.50	24.59	0.00	40.06	20.76	0.00
	67/19	59.49	36.20	0.01	52.68	32.73	0.01	45.02	29.06	0.01	36.39	25.22	0.01	26.71	21.21	0.01
	62/17	48.10	37.22	0.01	41.07	33.55	0.01	33.27	29.72	0.01	25.77	25.77	0.05	21.51	21.51	0.20
1400	72/22	80.24	38.94	0.00	73.00	35.45	0.00	64.73	31.69	0.00	56.41	27.69	0.01	44.86	23.46	0.01
	67/19	66.53	40.71	0.01	58.99	36.93	0.01	50.47	32.91	0.02	40.84	28.66	0.02	29.98	24.20	0.02
	62/17	53.91	42.17	0.02	46.10	38.14	0.02	37.43	33.92	0.02	29.46	29.46	0.07	24.60	24.60	0.22
FE4ANR005																
750	72/22	57.24	28.01	0.00	51.64	25.08	0.00	45.46	22.08	0.00	38.59	19.00	0.00	30.99	15.85	0.00
	67/19	46.98	28.35	0.00	41.29	25.33	0.00	35.01	22.24	0.00	28.09	19.09	0.00	20.47	15.90	0.01
	62/17	37.67	28.59	0.01	31.89	25.50	0.01	25.61	22.37	0.01	19.28	19.28	0.02	16.05	16.05	0.19
950	72/22	69.68	33.97	0.00	62.89	30.52	0.00	55.32	26.92	0.00	48.89	23.21	0.00	37.57	19.40	0.00
	67/19	57.29	34.68	0.01	50.33	31.06	0.01	42.64	27.33	0.01	34.14	23.51	0.01	24.80	19.63	0.01
	62/17	45.99	35.21	0.01	38.92	31.47	0.01	31.24	27.68	0.01	23.90	23.90	0.04	19.89	19.89	0.20
1150	72/22	80.80	39.28	0.00	72.96	35.40	0.00	64.17	31.32	0.00	54.37	27.06	0.01	43.48	22.66	0.01
	67/19	66.56	40.46	0.02	58.50	36.34	0.02	49.54	32.05	0.02	39.60	27.64	0.02	28.70	23.15	0.02
	62/17	53.51	41.36	0.02	45.29	37.07	0.02	36.38	32.70	0.02	26.26	26.26	0.07	23.51	23.51	0.22
1500	72/22	97.47	47.29	0.00	88.05	42.83	0.00	77.49	38.05	0.01	66.68	33.04	0.02	52.41	27.78	0.02
	67/19	80.52	49.40	0.03	70.85	44.58	0.03	60.01	39.53	0.03	47.89	34.25	0.03	34.64	28.83	0.04
	62/17	64.96	51.12	0.03	55.02	46.04	0.03	44.30	40.80	0.04	35.27	35.27	0.10	29.34	29.34	0.25
1700	72/22	106.61	51.26	0.00	95.43	46.52	0.01	84.03	41.43	0.03	71.21	36.06	0.03	56.82	30.42	0.03
	67/19	87.38	53.92	0.04	76.93	48.80	0.04	65.20	43.40	0.04	52.01	37.70	0.04	37.60	31.83	0.05
	62/17	70.60	56.17	0.04	59.87	50.74	0.04	48.32	45.08	0.05	38.96	38.96	0.13	32.40	32.40	0.27
FE4ANR006																
1050	72/22	76.01	37.07	0.00	68.82	33.39	0.00	60.76	29.56	0.00	51.72	25.55	0.00	41.64	21.42	0.00
	67/19	62.63	37.91	0.01	55.22	34.04	0.01	46.97	30.03	0.01	37.78	25.89	0.01	27.60	21.64	0.01
	62/17	50.40	38.54	0.01	42.81	34.53	0.01	34.49	30.41	0.01	26.28	26.28	0.03	21.90	21.90	0.19
1300	72/22	89.86	43.58	0.00	81.26	39.43	0.00	71.77	35.02	0.00	61.13	30.39	0.00	49.17	25.56	0.01
	67/19	74.04	45.04	0.01	65.36	40.60	0.01	55.62	35.94	0.01	44.72	31.09	0.01	32.62</		

CFM – Cubic Ft per Minute EWB – Entering Wet Bulb (°F / °C)
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor

LWB – Leaving Wet Bulb (°F / °C) TC – Gross Cooling Capacity 1000 Btuh
 MBH – 1000 Btuh

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

Leaving wb = wb corresponding to enthalpy of air leaving coil

(h_{wb})

$$h_{wb} = h_{\text{wb}} - \frac{\text{Total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.

3. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	Correction Factor					
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER kW	ELEMENTS	STATIC PRESSURE CORRECTION (in wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	- .02	- .03
20	4	- .04	- .06
18, 24, 30	6	- .06	- .10

The airflow performance table was developed using fan coils with 10kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

MODEL	CFM									
FE4A	400	600	800	1000	1200	1400	1600	1800	2000	
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—	—
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—	—
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—	—
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133	—
MODEL	CFM									
FE5A	400	600	800	1000	1200	1400	1600	1800	2000	
004	—	0.015	0.026	0.038	0.053	0.070	—	—	—	—

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc) AT INDICATED AIRFLOW (DRY TO WET COIL)

MODEL	CFM										
FE4A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048
MODEL	CFM										
FE5A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
004	0.004	0.005	0.007	0.009	0.011	0.013	0.016	0.018	0.020	0.023	—

NOTE: Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Carrier

Model: FV4C

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Heat Pump Comfort	Heat Pump Efficiency	High Speed		Low Speed		Lo	Med	High
				Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency			
002	018	470	525	—	—	—	—	350	380	470
	024	630	700	630	700	505	560	350	505	630
	030	785	875	—	—	—	—	390	630	785
	036	945	1050	945	1050	755	840	470	755	945
003	024	630	700	630	700	415	560	415	505	630
	030	785	875	—	—	—	—	415	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
005	030	785	875	—	—	—	—	425	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
006	036	945	1050	945	1050	755	840	540	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
	060	1575	1750	1575	1750	1260	1400	785	1260	1575

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Nominal A/C Cooling	A/C Cooling Dehumidity	High Speed		Low Speed		Lo	Med	High
				Nominal A/C Cooling	A/C Cooling Dehumidity	Nominal A/C Cooling	A/C Cooling Dehumidity			
002	018	525	420	—	—	—	—	350	420	525
	024	700	560	700	560	560	450	350	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
003	024	700	560	700	560	560	450	415	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
005	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
006	036	1050	840	1050	840	840	670	540	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
	060	1750	1400	1750	1400	1400	1120	875	1400	1750

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10kW heater and filter installed.
4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4C fan coil.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Nominal A/C Cooling	A/C Cooling Dehumidity	High Speed		Low Speed		Lo	Med	High
				Nominal A/C Cooling	A/C Cooling Dehumidity	Nominal A/C Cooling	A/C Cooling Dehumidity			
002	018	525	420	—	—	—	—	350	420	525
	024	700	560	700	560	560	450	350	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
003	024	700	560	700	560	560	450	415	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
005	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
006	036	1050	840	1050	840	840	670	540	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
	060	1750	1400	1750	1400	1400	1120	875	1400	1750

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10KW heater and filter installed.
4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4C fan coil.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Heat Pump Comfort	Heat Pump Efficiency	High Speed		Low Speed		Lo	Med	High
				Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency			
002	018	470	525	—	—	—	—	350	380	470
	024	630	700	630	700	505	560	350	505	630
	030	785	875	—	—	—	—	390	630	785
	036	945	1050	945	1050	755	840	470	755	945
003	024	630	700	630	700	415	560	415	505	630
	030	785	875	—	—	—	—	415	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
005	030	785	875	—	—	—	—	425	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
006	036	945	1050	945	1050	755	840	540	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
	060	1575	1750	1575	1750	1260	1400	785	1260	1575

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or –10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10KW heater and filter installed.
4. Airflows shown are at standard air conditions.

AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODES

FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE											
		0–5			0–10			0–15			0–20		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
002	18,000	625	625	625	675	675	—	—	—	—	—	—	—
	24,000	650	725	835	—	725	835	875	875	875	—	—	—
	30,000	815	905	1040	—	905	1040	900	900	1040	1100	1100	1100
	36,000	980	1085	1250	980	1085	1250	980	1085	1250	1100	1100	1250
003	24,000	675	725	835	875	875	—	—	—	—	—	—	—
	30,000	815	905	1040	875	905	1040	1100	1100	1100	—	—	—
	36,000	980	1085	1250	980	1085	1250	1100	1100	1250	1225	1225	1250
	42,000	1140	1270	1460	1140	1270	1460	1140	1270	1460	1225	1270	1460
FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE											
		0–10			0–15			0–20			0–30		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
005	30,000	975	975	1040	1100	1100	1100	—	—	—	—	—	—
	36,000	980	1085	1250	1100	1100	1250	1250	1250	1250	—	—	—
	42,000	1140	1270	1460	1140	1270	1460	1250	1270	1460	—	—	—
	48,000	1305	1450	1665	1305	1450	1665	1305	1450	1665	1500	1500	1665
006	36,000	1100	1100	1250	1350	1350	1350	—	—	—	—	—	—
	42,000	1140	1270	1460	1350	1350	1460	1525	1525	1525	—	—	—
	48,000	1305	1450	1665	1350	1450	1665	1525	1525	1665	1750	1750	1750
	60,000	1630	1810	2085	1630	1810	2085	1630	1810	2085	1750	1810	2085

NOTE: Lo, NOM, and HI refer to AC, HP CFM ADJUST selection.
 — Airflow not recommended for heater/system size.

MINIMUM CFM FOR ELECTRIC HEATER APPLICATION

FAN COIL UNIT	HEAT PUMP UNIT SIZE	CFM				
		HEATER SIZE kW				
		5	8, 9, 10	15	18, 20	24, 30
002	Heater Only	625	625	725	875	—
	018	625	625	—	—	—
	024	650	725	875	—	—
	030	800	875	875	1040	—
	036	970	970	970	1040	—
003	Heater Only	675	700	1050	1050	—
	024	675	875	—	—	—
	030	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
005	Heater Only	675	700	1050	1050	1400
	018	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
	048	1305	1305	1305	1305	1400
006	Heater Only	1050	1050	1050	1050	1750
	018	1100	1100	1350	1350	—
	042	1125	1125	1350	1350	—
	048	1300	1300	1350	1465	1750
	060	1625	1625	1625	1750	1750

NOTES:

1. Heater Only—Air conditioner with electric heater application.
2. These airflows are minimum acceptable airflows as UL listed. Actual airflow delivered will be per airflow delivery chart for Electric Heating Modes.

ACCEPTABLE DUCT CONDITIONS

For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the “Acceptable Range” illustrated above.

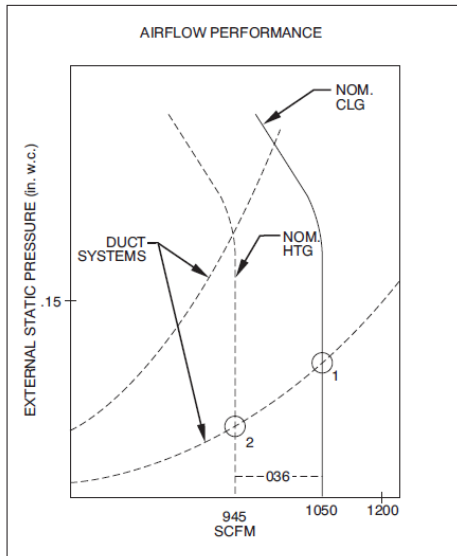
The airflow performance charts for the FV4C fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

The dotted curved lines are static pressure drop characteristics for several fixed-duct systems. These lines can be used to predict the

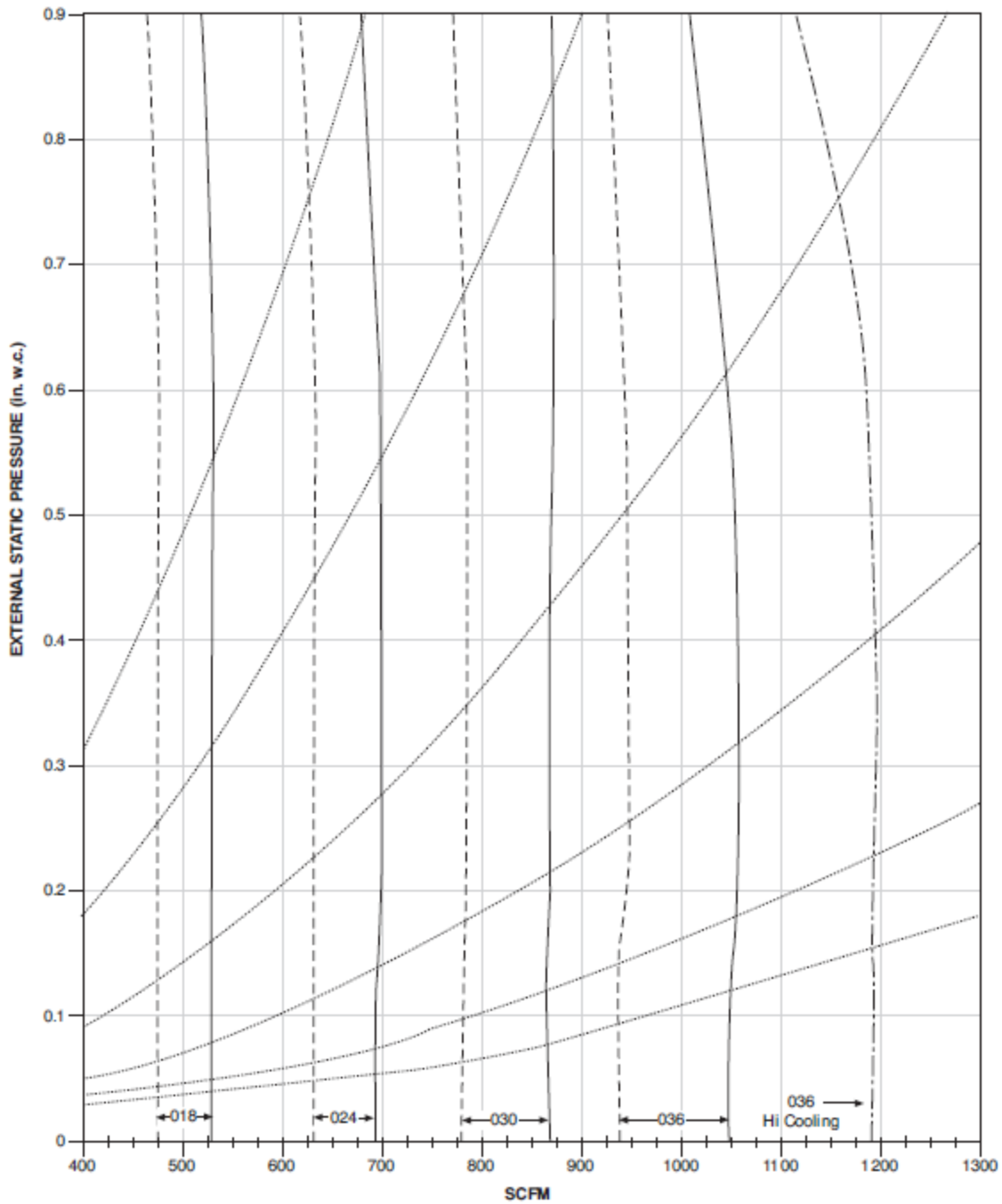
system static pressure drop at any airflow given the actual drop at 1 known point.

For example, a duct system is designed for 0.15 in. water column (in. w.c.) drop at 1200 CFM. The FV4CNF005 operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of 0.11 in. w.c.. (See point 1.) On the same duct system, the FV4CNF005 operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 in. w.c. (See point 2.)

This example is but one of many possible duct system designs. The FV4CNF005 will deliver the above airflows against much higher static pressures.



AIRFLOW PERFORMANCE

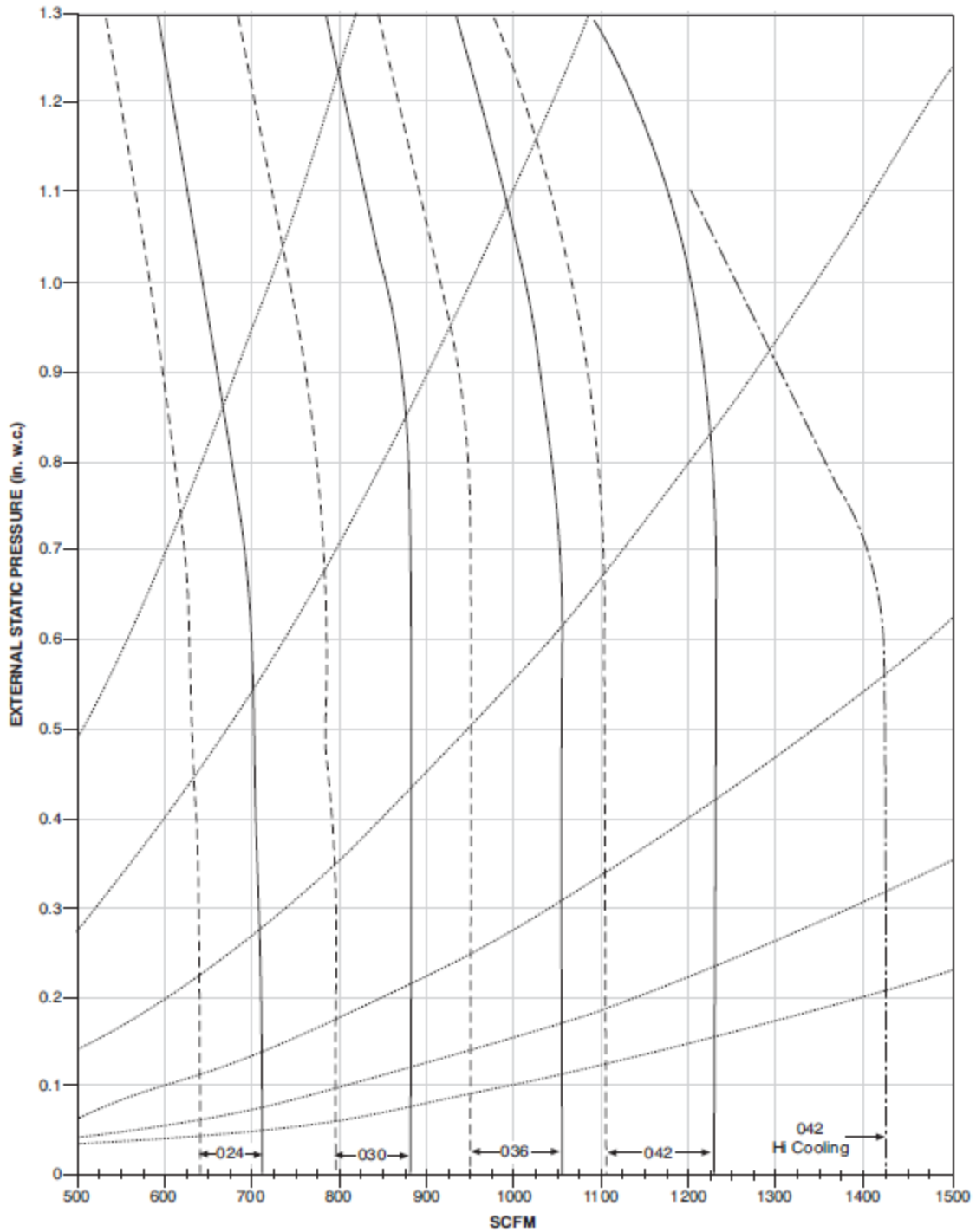


A09340

FV4CNE002

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

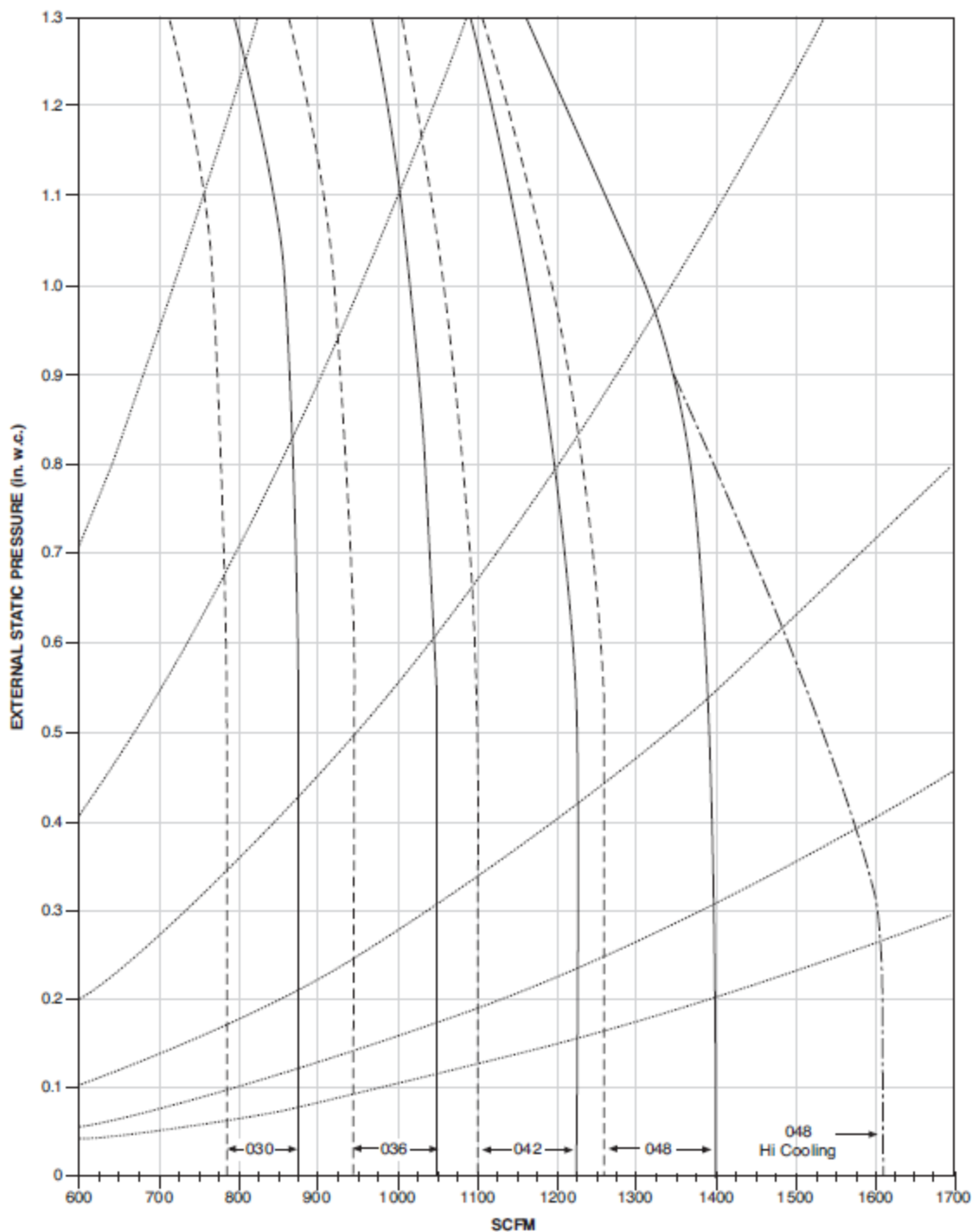


FV4CN(B,F)003

A0841

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

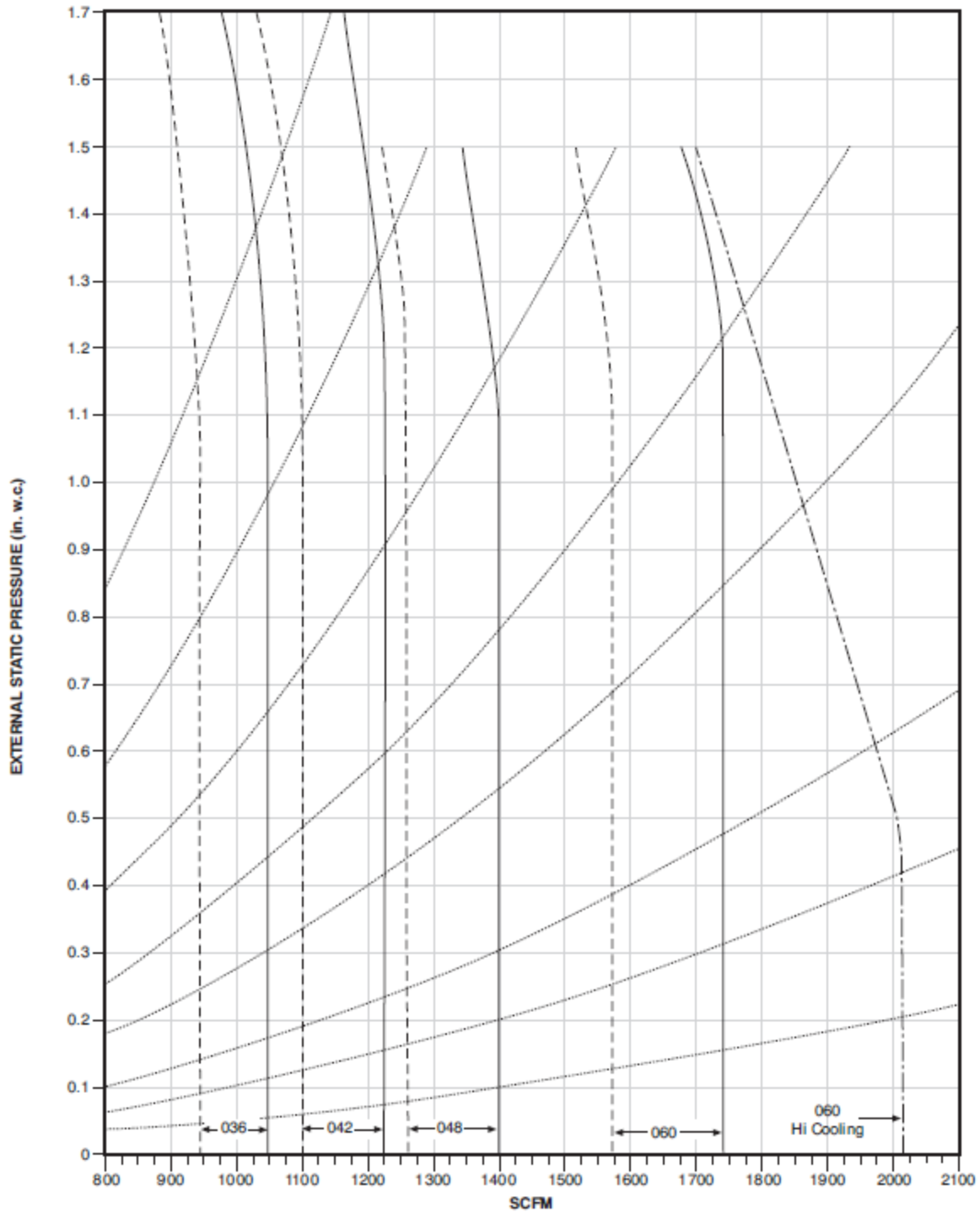


A08342

FV4CN(B,F)005

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE



A09343

FV4CNB006

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER kW	ELEMENTS	STATIC PRESSURE CORRECTION (in. wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	-.02	-.03
20	4	-.04	-.06
18, 24, 30	6	-.06	-.10

The FV4C airflow performance table was developed using fan coils with 10-kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in. wc)

UNIT SIZE	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (IN. WC) AT INDICATED AIRFLOW (DRY TO WET COIL)

UNIT SIZE	CFM										
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Carrier

Model: FX4D

Table 1 – AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FX4D 019	Tap 5	776	745	696	660	609	572
	Tap 4	683	644	589	548	494	461
	Tap 3	683	644	589	548	494	461
	Tap 2	631	563	500	443	409	361
	Tap 1	625	524	457	417	367	319
FX4D 025	Tap 5	956	920	891	851	816	780
	Tap 4	825	795	757	722	674	634
	Tap 3	825	795	757	722	674	634
	Tap 2	726	695	635	598	543	509
	Tap 1	631	563	500	443	409	361
FX4D 031	Tap 5	1189	1151	1104	1050	1003	959
	Tap 4	1041	998	944	886	837	772
	Tap 3	1041	998	944	886	837	772
	Tap 2	924	876	817	752	704	660
	Tap 1	779	693	628	571	526	476
FX4D 037	Tap 5	1363	1332	1294	1253	1207	1157
	Tap 4	1237	1206	1160	1121	1070	1013
	Tap 3	1237	1206	1160	1121	1070	1013
	Tap 2	1095	1058	1007	951	888	824
	Tap 1	1014	885	773	673	609	549
FX4D 043	Tap 5	1519	1490	1454	1419	1379	1332
	Tap 4	1437	1403	1366	1333	1294	1245
	Tap 3	1437	1403	1366	1333	1294	1245
	Tap 2	1257	1226	1191	1141	1090	1033
FX4D 049	Tap 5	1757	1725	1693	1653	1614	1576
	Tap 4	1664	1626	1593	1552	1517	1477
	Tap 3	1664	1626	1593	1552	1517	1477
	Tap 2	1459	1420	1379	1336	1298	1259
	Tap 1	1301	1241	1195	1150	1102	1039
FX4D 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

■ - Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 037, 3 element heater sizes 043 through 061).
- Airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 043 - 061 sizes must have supply static greater than 0.20 in wc.
- Airflow above 400 cfm/ton on 049-061 size could result in condensate blowing off coil or splashing out of drain pan.

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

See Notes following table.

CFM - Cubic Ft per Minute EWB - Entering Wet Bulb °F (°C) LWB - Leaving Wet Bulb °F (°C) TC - Gross Cooling Capacity 1000 Btuh
 SHC - Gross Sensible Capacity 1000 Btuh BF - Bypass Factor MBH - 1000 Btuh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{lwb})
 $h_{lwb} = \frac{h_{ewb} - \text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
 where h_{ewb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

Table 3 – SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

Table 4 – MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES FX	HEATER KW									
	3	5	8	9	10	15	18	20	24	30
019	525	525	525	—	600*	—	—	—	—	—
025	700	700	700	—	700	775*	—	—	—	—
031	—	875	875	—	875	875	—	1060*	—	—
037	—	1050	970	970	970	920	—	1040	—	—
043	—	—	1225	1225	1225	1225	1225	1225	—	—
049	—	—	1400	1400	1400	1400	1400	1400	1400	1400
061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates medium speed (blue). All other motor speeds at low tap.

Table 5 – AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc AT INDICATED AIRFLOW (DRY-TO-WET COIL))

FX Size	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
019	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
025	0.016	0.027	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
031	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
037	—	—	—	—	—	0.055	0.064	0.073	0.081	—	—	—	—	—	—	—
043	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
049	—	—	—	—	—	—	—	—	—	0.038	0.043	0.049	0.054	0.059	—	—
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

Table 6 – FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

Unit Size FX4D	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
019, 025	0.012	0.022	0.048	0.072	—	—	—	—	—
031, 037, 043	—	—	0.036	0.051	0.07	0.092	0.12	—	—
049, 061	—	—	—	—	—	0.073	0.086	0.105	0.13

Table 7 – ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

019 - 037			043 - 061		
HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 019 through 037 size units and 15-kW heaters (3 elements) in the 043 through 061 size units.
For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: AE Series

SECTION XI: BLOWER SPEED CONNECTIONS

Adjust blower motor speed to provide airflow within the minimum and maximum limits approved for indoor coil, electric heat and outdoor unit. Make speed tap adjustments at the motor terminal block. Refer to airflow data listed in Table 11. Connect motor wires to motor speed tap receptacle for speed desired.

The standard ECM motor operates when a 24 VAC signal is sent to any of its 5-speed taps. If simultaneous 24 VAC inputs are present, the motor operates at the highest speed tap that is energized. The lowest speed is 1, and the highest speed is 5. The air handler comes factory wired with the electric heat kit connected to tap 5 for the heating speed, and the cooling/heat pump connected to tap 4 for the heating speed. The cooling / heat pump indicating speed is supplied by the thermostat "G" signal.

The electric heat kit wire for the heating speed should be moved from 5 to the appropriate speed tap according to Table 4. If electric heat requires speed tap 5, the highest speed tap available for cooling / heat pump heating is tap 4.

If a lower circulating speed is desired for fan only operation (lower than a heating or cooling fan speed), connect the factory "red" wire shipped on tap #4 into the lowest setting desired. Field install a wire from low voltage "YEL," and connect it to the motor speed tap desired for cooling / heat pump heating fan speed.

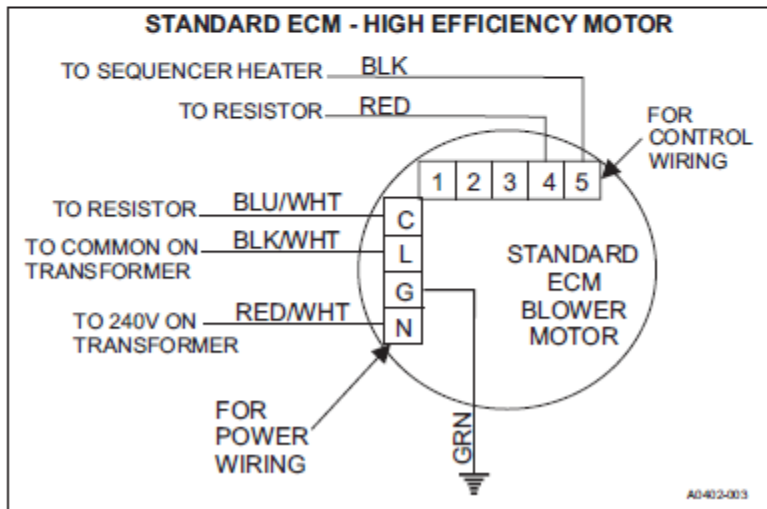


FIGURE 17: Blower Speed Connections

TABLE 11: Air Flow Data (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
18B	#5 HI	1132	1107	1074	1053	1023	990	955
	#4 MED-HI	1025	994	971	943	912	878	803
	#3 MED	821	798	764	727	657	599	536
	#2 MED-LO	661	632	572	491	414	335	279
	#1 LO	510	435	365	291	181	147	23
24B	#5 HI	1117	1078	1061	1034	1007	985	955
	#4 MED-HI	1032	1001	975	946	928	898	872
	#3 MED	838	799	768	742	698	634	582
	#2 MED-LO	644	620	582	521	440	378	284
	#1 LO	474	421	336	279	187	144	70
30B	#5 HI	1113	1083	1057	1034	1007	977	941
	#4 MED-HI	1057	1021	1000	977	947	914	881
	#3 MED	857	821	794	768	728	653	601
	#2 MED-LO	675	641	607	533	460	408	345
	#1 LO	489	457	386	324	261	209	158
36B	#5 HI	1323	1287	1264	1238	1210	1177	1149
	#4 MED-HI	1255	1222	1193	1170	1140	1113	1081
	#3 MED	1052	1025	992	967	927	857	811
	#2 MED-LO	855	823	799	739	691	637	572
	#1 LO	653	622	574	507	463	411	353
36C	#5 HI	1562	1531	1496	1453	1416	1381	1348
	#4 MED-HI	1277	1240	1206	1165	1133	1083	1025
	#3 MED	1078	1043	996	957	899	819	770
	#2 MED-LO	881	836	810	749	658	578	537
	#1 LO	707	677	595	524	451	405	346
42C	#5 HI	1594	1564	1530	1497	1459	1424	1382
	#4 MED-HI	1442	1408	1374	1338	1298	1251	1199
	#3 MED	1249	1215	1179	1135	1082	1016	956
	#2 MED-LO	1048	1008	962	905	840	761	683
	#1 LO	881	833	786	708	623	540	481

TABLE 11: Air Flow Data (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
48C	#5 HI	1759	1719	1685	1644	1611	1578	1540
	#4 MED-HI	1684	1639	1606	1569	1536	1489	1452
	#3 MED	1511	1460	1427	1388	1347	1308	1262
	#2 MED-LO	1305	1260	1212	1178	1121	1076	1027
	#1 LO	1123	1068	1029	985	909	793	769
48D	#5 HI	1774	1726	1684	1651	1614	1574	1529
	#4 MED-HI	1709	1668	1619	1580	1548	1499	1459
	#3 MED	1484	1436	1410	1372	1321	1284	1237
	#2 MED-LO	1295	1254	1218	1167	1114	1069	1005
	#1 LO	1102	1051	1011	962	890	831	766
60C	#5 HI	1964	1930	1897	1858	1823	1789	1752
	#4 MED-HI	1889	1855	1818	1791	1747	1716	1668
	#3 MED	1693	1652	1627	1584	1551	1510	1462
	#2 MED-LO	1486	1450	1411	1375	1335	1291	1252
	#1 LO	1292	1247	1207	1172	1123	1055	990
60D	#5 HI	1907	1871	1835	1796	1762	1723	1681
	#4 MED-HI	1851	1816	1774	1742	1699	1659	1616
	#3 MED	1648	1608	1569	1530	1492	1445	1404
	#2 MED-LO	1456	1416	1371	1333	1289	1227	1163
	#1 LO	1261	1221	1172	1120	1055	998	949

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended. Airflow data shown is from testing performed at 230V. AE units use a standard ECM constant torque motor, and there is minimal variation of airflow at other distribution voltage values. The above data can be used for airflow at other distribution voltages.

SECTION XIV: AIR SYSTEM ADJUSTMENT

To check the Cubic Feet per Minute (CFM), measure the external duct static using a manometer and static pressure tips. To prepare coil for static pressure measurements run the fan only to assure a dry coil.

NOTICE

Refer to Table 11 for coil Air Flow Data of Cubic Feet Per Minute (CFM).

Drill 2 holes, one 12" away from the air handler in the supply air duct and on 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips, and energize the blower motor. See Table 9 to determine the air flow, and make the necessary adjustments to keep the CFM within the airflow limitations of the coil.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.

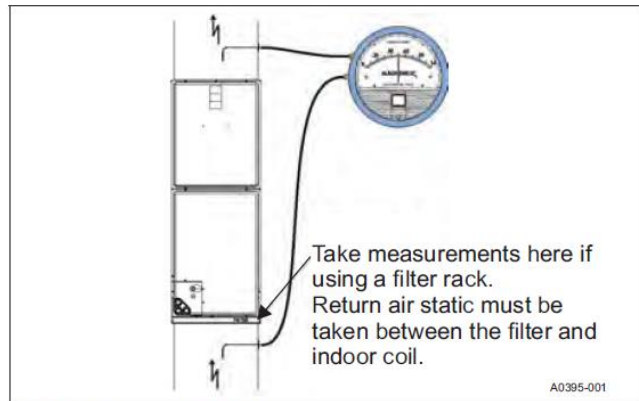


FIGURE 18: Duct Static Measurements

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: AP Series

AIR FLOW DATA (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
208 Volt								
18B	High	723	702	666	576	523	373	317
	Medium	566	543	480	382	305	183	N/A
	Low	394	330	183	144	N/A	N/A	N/A
24B	High	990	973	953	924	885	797	713
	Medium	736	723	703	644	606	540	457
	Low	579	562	513	463	395	287	202
30B	High	1228	1192	1134	1078	1023	951	843
	Medium	1023	998	958	915	859	741	677
	Low	769	745	701	632	577	495	433
36B	High	1522	1475	1416	1349	1276	1188	1108
	Medium	1251	1217	1180	1135	1085	1042	968
	Low	965	951	936	914	886	836	742
36C	High	1539	1489	1450	1400	1283	1201	1110
	Medium	1159	1147	1096	1042	994	943	877
	Low	966	933	892	859	812	769	679
37C	High	1508	1471	1436	1382	1217	1054	1031
	Medium	1151	1138	1117	1053	923	837	758
	Low	959	939	904	829	745	698	616
42C	High	1827	1769	1707	1634	1545	1315	1236
	Medium	1444	1423	1392	1348	1204	1118	1050
	Low	1136	1140	1116	1041	982	893	842
48C	High	1686	1643	1583	1507	1441	1357	1062
	Medium	1482	1439	1392	1340	1280	1090	971
	Low	1252	1222	1186	1148	987	928	810
48D	High	1988	1931	1853	1775	1695	1606	1391
	Medium	1672	1636	1587	1522	1439	1302	1139
	Low	1376	1348	1309	1249	1138	1038	973
60C	High	1851	1813	1757	1680	1601	1513	1262
	Medium	1718	1687	1631	1562	1499	1417	1185
	Low	1560	1546	1505	1441	1383	1258	1144
60D	High	1971	1919	1844	1757	1664	1563	1190
	Medium	1812	1763	1698	1639	1561	1451	1142
	Low	1403	1394	1364	1327	1153	1079	968

AIR FLOW DATA (CFM)¹ (Continued)

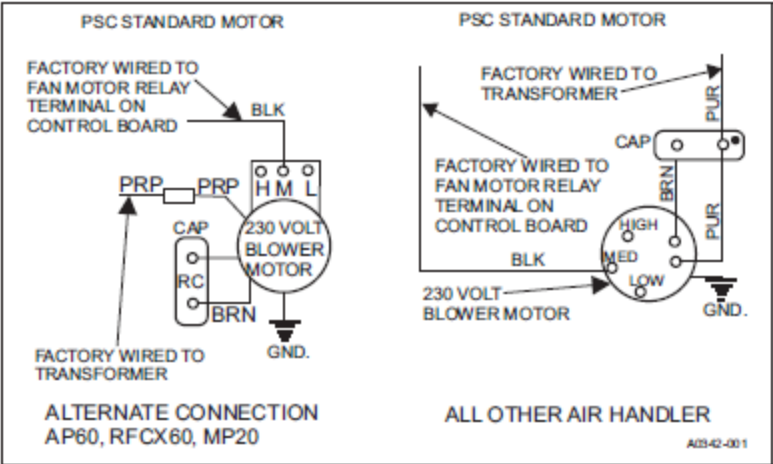
Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
230 Volt								
18B	High	806	780	745	687	623	508	380
	Medium	640	614	563	500	405	284	216
	Low	461	414	325	188	156	N/A	N/A
24B	High	1142	1114	1078	1051	988	931	778
	Medium	854	840	826	800	738	688	605
	Low	684	663	633	578	510	445	322
30B	High	1261	1231	1174	1116	1051	977	891
	Medium	1117	1091	1048	984	934	863	699
	Low	864	846	795	754	663	575	488
36B	High	1601	1552	1485	1414	1337	1258	1178
	Medium	1385	1352	1302	1252	1193	1106	1057
	Low	1117	1103	1079	1044	1001	945	889
36C	High	1671	1636	1581	1513	1439	1330	1210
	Medium	1326	1310	1280	1238	1162	1081	994
	Low	1125	1102	1059	1014	950	894	827
37C	High	1681	1630	1572	1493	1427	1175	1031
	Medium	1308	1284	1250	1213	1022	951	859
	Low	1109	1096	1063	964	856	807	723
42C	High	1924	1861	1778	1707	1618	1442	1271
	Medium	1629	1585	1541	1470	1403	1226	1073
	Low	1323	1295	1271	1232	1111	1045	954
48C	High	1775	1727	1668	1596	1513	1431	1190
	Medium	1591	1551	1500	1447	1380	1312	1059
	Low	1392	1363	1317	1267	1206	1025	924
48D	High	2150	2069	1988	1894	1812	1690	1481
	Medium	1878	1812	1752	1677	1604	1497	1258
	Low	1583	1543	1493	1437	1332	1164	1075
60C	High	1931	1889	1808	1739	1655	1566	1472
	Medium	1845	1798	1731	1659	1581	1498	1249
	Low	1726	1692	1640	1578	1503	1416	1174
60D	High	2060	2006	1922	1829	1717	1613	1224
	Medium	1949	1900	1817	1735	1640	1547	1176
	Low	1600	1563	1527	1476	1400	1132	1022

1. Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure.
 Dry coil conditions only, tested without filters.
 For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp.

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

BLOWER SPEED CONNECTIONS



PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: AVC Series

ELECTRICAL HEAT - MINIMUM FAN SPEED

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models											
		18B	24B	30B	36B	36C	42C	48C	48D	49C	60C	60D	
6HK(0,1)6500206	2.4kW	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500506	4.8kW	Med Lo (D)	Med (C)	Med (C)	Med Lo (D)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500806	7.7kW	Med (C)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6501006 6HK36501025	9.6kW	Med (C)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501306	12.5kW	-	Med Hi (B)	Med Hi (B)	Med (C)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501506 6HK36501525	14.4kW	-	-	Med Hi (B)	Med Hi (B)	Med Hi (B)	Hi (A)	Med (C)	Med (C)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501806 6HK36501825	17.3kW	-	-	-	Med Hi (B)	Med Hi (B)	Hi (A)	Med (C)	Med Hi (B)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6502006 6HK46502025	19.2kW	-	-	-	Med Hi (B)	Hi (A)	Hi (A)	Med Hi (B)	Hi (A)	Med Hi (B)	Med Hi (B)	Med Hi (B)	Med Hi (B)
6HK(1,2)6502506 6HK46502525	24kW	-	-	-	-	-	-	-	Hi (A)	-	-	-	Med Hi (B)

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
- 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

AIR FLOW DATA (CFM)¹

High/Low Speed Cooling and Heat Pump CFM													
Cool Tap	ADJ Tap ²	AVC18B		AVC24B		AVC30B		AVC36B		AVC36C		AVC42C	
		High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
A	B	810	527	1022	562	1060	731	1350	878	1350	878	1596	1037
B	B	675	439	795	437	1013	658	1238	804	1238	804	1400	910
A	A	720	468	900	495	1000	650	1200	780	1200	780	1425	926
B	A	600	390	700	385	900	585	1100	715	1100	715	1250	813
A	C	630	410	783	431	875	569	1050	683	1050	683	1268	824
C	B	534	347	766	421	844	548	1125	731	1125	731	1344	874
B	C	525	341	609	335	788	512	963	626	963	626	1113	723
D	B	450	293	568	312	703	457	900	585	900	585	1120	728
C	A	475	309	675	371	750	488	1000	650	1000	650	1200	780
D	A	400	260	500	275	625	406	800	520	800	520	1000	650
C	C	416	270	587	323	656	427	875	569	875	569	1068	694
D	C	350	228	435	239	547	355	700	455	700	455	890	579

Cool Tap	ADJ Tap ²	AVC48C		AVC48D		AVC49C		AVC60C		AVC60D			
		High	Low	High	Low	High	Low	High	Low	High	Low		
A	B	1760	1144	1760	1144	1773	1127	1860	1308	1935	1316		
B	B	1540	1001	1540	1001	1564	964	1840	1196	1772	1152		
A	A	1600	1040	1600	1040	1617	1004	1750	1138	1800	1170		
B	A	1400	910	1400	910	1412	866	1600	1040	1575	1024		
A	C	1424	926	1424	926	1432	885	1531	995	1665	1082		
C	B	1320	858	1320	858	1332	809	1581	1028	1491	969		
B	C	1246	810	1246	810	1250	755	1400	910	1457	947		
D	B	1100	715	1100	715	1085	654	1323	860	1350	878		
C	A	1200	780	1200	780	1189	720	1375	894	1325	861		
D	A	1000	650	1000	650	964	580	1150	748	1200	780		
C	C	1068	694	1068	694	1044	638	1203	782	1226	797		
D	C	890	579	890	579	847	516	1006	654	1110	722		

High/Low Speed Heat CFM													
Heat Tap	AVC18B		AVC24B		AVC30B		AVC36B		AVC36C		AVC42C		
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	
A	850	850	1025	980	1025	850	1225	1020	1425	1150	1430	1200	
B	750	750	960	960	960	775	1150	950	1150	1000	1375	1150	
C	675	675	725	725	750	750	950	750	925	925	1150	1050	
D	425	425	580	580	580	580	725	725	675	675	900	900	

Heat Tap	AVC48C		AVC48D		AVC49C		AVC60C		AVC60D			
	High	Low	High	Low	High	Low	High	Low	High	Low		
A	1650	1200	1650	1150	1668	964	1850	1250	1825	1150		
B	1550	1150	1600	1050	1564	791	1775	1200	1775	1050		
C	1375	1050	1325	1000	1392	703	1570	1150	1570	1000		
D	1150	1000	1125	780	1127	540	1370	1050	1375	950		

1. Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters.
 For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.
 The ADJ tap does not affect the HEAT tap setting.
 Low speed cooling used only with two stage outdoor units. Speed is preset to 65% of high speed.
 Dehumidification speed is 85% of jumper selected COOL tap and ADJUST tap.
 When operating in both heat pump and electric heat modes, the airflow (CFM) will be per HEAT tap CFM values only.
 At some settings, LOW COOL and/or LOW HEAT airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details.
 Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: AVV Series

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

ELECTRICAL HEAT - MINIMUM FAN SPEED

Heater Kit Models ^{1,2}	Nom. kW @240V	Air Handler Models									
		AVV25B	AVV37B	AVV37C	AVV38C	AVV49C	AVV49D	AVV50C	AVV50D	AVV61C	AVV61D
6HK(0,1)6500206	2.4kW	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500506	4.8kW	Med Lo (D)	Med Lo (D)	Med (C)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500806	7.7kW	Med Lo (D)	Med Lo (D)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6501006	9.6kW	Med Lo (D)	Med Lo (D)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501306	12.5kW	Med (C)	Med (C)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501506	14.4kW	-	Med Hi (B)	Med Hi (B)	Med Hi (B)	Med (C)	Med (C)	Med (C)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501806	17.3kW	-	Med Hi (B)	Med Hi (B)	Med Hi (B)	Med (C)	Med Hi (B)	Med (C)	Med Hi (B)	Med (C)	Med (C)
6HK(1,2)6502006	19.2kW	-	Med Hi (B)	Hi (A)	Hi (A)	Med Hi (B)	Hi (A)	Med Hi (B)	Hi (A)	Med Hi (B)	Med Hi (B)
6HK(1,2)6502506	24kW	-	-	-	-	-	Hi (A)	-	Hi (A)	-	Med Hi (B)

NOTES:

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.

AIR FLOW DATA (CFM) (When operating with electric heat section.)^{1, 2, 3, 4}

High/Low Speed Heat CFM										
Heat Tap	AVV25B		AVV37B		AVV37C		AVV38C		AVV49C	
	High	Low	High	Low	High	Low	High	Low	High	Low
A	1225	1020	1225	1020	1425	1150	1430	1200	1650	1200
B	1150	950	1150	950	1150	1000	1375	1150	1550	1150
C	950	750	950	750	925	925	1150	1050	1375	1050
D	725	725	725	725	675	675	900	900	1150	1000

Heat Tap	AVV49D		AVV50C		AVV50D		AVV61C		AVV61D	
	High	Low	High	Low	High	Low	High	Low	High	Low
A	1650	1150	1650	1200	1650	1150	1850	1250	1825	1150
B	1600	1050	1550	1150	1600	1050	1775	1200	1775	1050
C	1325	1000	1375	1050	1325	1000	1570	1150-	1570	1000
D	1125	780	1150	1000	1125	780	1370	1050	1375	950

NOTES:

- Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.
- The ADJ tap does not affect the HEAT tap setting. Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.
- All CFM are shown at 0.5" w.c. external static pressure. These units have variable-speed ECM motors that automatically adjust to provide constant CFM from 0.0" to 0.4" WC. external static pressure. From 0.4" to 0.8" external static pressure, CFM is reduced by 2% per 0.1" static pressure. Operation of these units on duct systems with external static pressure greater than 0.8" is not recommended.
- Airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: ME Series

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

ELECTRICAL HEAT - MINIMUM FAN SPEED

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models					
		ME08B	ME12B	ME12C	ME14D	ME16C	ME20D
6HK(0,1)6500206	2.4kW	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500506	4.8kW	Med (#3)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500806	7.7kW	Med Hi (#4)	Med Lo (#2)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6501006 6HK36501025	9.6kW	Med Hi (#4)	Med Lo (#2)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501306	12.5kW	Hi (#5)	Med Hi (#4)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501506 6HK36501525	14.4kW	–	Hi (#5)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501806 6HK36501825	17.3kW	–	Hi (#5)	Med Hi (#4)	Med Hi (#4)	Med (#3)	Med (#3)
6HK(1,2)6502006 6HK46502025	19.2kW	–	Hi (#5)	Hi (#5)	–	Med Hi (#4)	Med (#3)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	–	Med (#3)

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.

2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.

3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

AIR FLOW DATA - CFM¹

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)							
			0.10	0.20	0.30	0.40	0.50	0.60	0.70	
ME08B	CM18B	#5 HI	939	893	871	837	804	767	714	
		#4 MED-HI	833	803	765	737	697	639	587	
		#3 MED	638	605	576	494	454	380	278	
		#2 MED-LO	538	489	456	374	283	211	157	
	CM24B	#1 LO	478	446	367	272	211	150	23	
		#5 HI	923	892	862	833	797	743	688	
		#4 MED-HI	846	816	786	750	710	638	599	
		#3 MED	631	605	575	512	442	370	282	
	CM30B	#2 MED-LO	570	530	460	402	328	232	186	
		#1 LO	477	448	372	292	203	157	24	
		#5 HI	937	905	877	841	798	748	704	
		#4 MED-HI	846	808	778	733	667	636	572	
ME12B	CM18B	#3 MED	638	609	556	495	463	399	336	
		#2 MED-LO	560	484	469	408	321	265	201	
		#1 LO	481	448	390	328	252	166	92	
		#5 HI	1355	1334	1302	1270	1231	1201	1170	
	CM24B	#4 MED-HI	1273	1244	1213	1177	1142	1109	1073	
		#3 MED	1074	1041	1009	974	936	894	809	
		#2 MED-LO	862	826	798	766	688	607	587	
		#1 LO	659	616	560	512	457	387	275	
	CM30B	#5 HI	1359	1331	1301	1269	1234	1202	1171	
		#4 MED-HI	1272	1245	1209	1174	1143	1106	1073	
		#3 MED	1072	1040	1007	973	937	874	778	
		#2 MED-LO	857	821	794	756	676	613	567	
CM36B	#1 LO	654	606	557	504	443	379	271		
	#5 HI	1354	1325	1294	1263	1230	1198	1168		
	#4 MED-HI	1268	1235	1203	1171	1139	1107	1075		
	#3 MED	1069	1038	1003	974	935	876	781		
ME12C	CM61C	#2 MED-LO	859	818	794	756	681	620	563	
		#1 LO	654	608	552	503	434	364	289	
		#5 HI	1348	1317	1285	1254	1222	1189	1157	
		#4 MED-HI	1258	1225	1192	1160	1126	1093	1063	
	CM30D	#3 MED	1062	1029	993	964	929	879	778	
		#2 MED-LO	860	822	791	761	682	616	568	
		#1 LO	642	599	554	502	431	367	294	
		#5 HI	1360	1334	1291	1253	1207	1172	1076	
	ME14D	CM36D	#4 MED-HI	1274	1242	1202	1157	1109	1040	1000
			#3 MED	1060	1022	968	923	854	766	694
			#2 MED-LO	910	863	806	722	660	567	524
			#1 LO	655	585	511	436	385	323	267
CM42D		#5 HI	1583	1546	1516	1477	1435	1401	1364	
		#4 MED-HI	1499	1456	1426	1393	1349	1306	1267	
		#3 MED	1295	1247	1217	1181	1135	1080	1005	
		#2 MED-LO	1099	1075	1026	983	909	840	786	
CM30D		#1 LO	906	875	834	754	675	589	521	
		#5 HI	1604	1563	1524	1479	1450	1410	1374	
		#4 MED-HI	1508	1464	1428	1384	1350	1308	1271	
		#3 MED	1300	1250	1209	1175	1132	1075	1006	
CM36D	#2 MED-LO	1102	1058	1028	986	909	838	784		
	#1 LO	912	884	831	763	694	568	530		
	#5 HI	1544	1520	1482	1440	1411	1367	1321		
	#4 MED-HI	1455	1426	1393	1349	1305	1272	1207		
CM30D	#3 MED	1263	1238	1197	1157	1100	1033	980		
	#2 MED-LO	1074	1037	993	946	877	810	729		
	#1 LO	888	853	787	736	644	571	508		

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: MP Series

ELECTRICAL HEAT - MINIMUM FAN SPEED

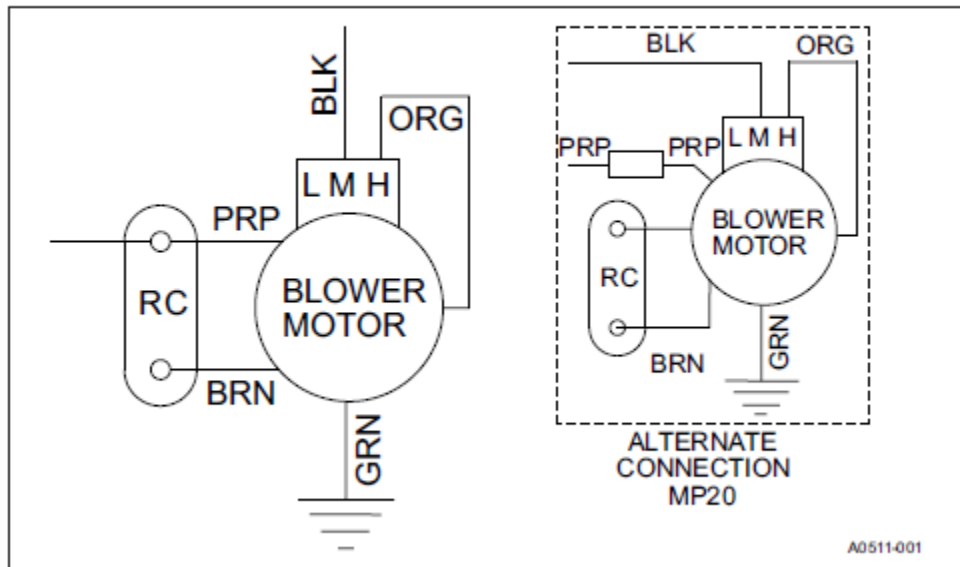
Heater Kit Models ¹	Nom. kW @480V	Air Handler Models				
		MP08B	MP12B	MP14D	MP16C	MP20D
6HK06501046	9.6kW	Med	Low	Med	Low	Med
6HK06501546	14.4kW	-	Med	Med	Low	Med
6HK06501846	17.3kW	-	Med	Med	High	Med
6HK06502046	19.2kW	-	Med	High	High	Med
6HK06502546	24kW	-	-	-	-	High

1. All kits have no service disconnect. Terminal blocks only.

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

BLOWER SPEED CONNECTIONS



AIR FLOW DATA - CFM¹

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)						
			0.10	0.20	0.30	0.40	0.50	0.60	0.70
460 Volt									
MP08B	CM18B	High	1142	1126	1093	1057	1009	953	852
		Medium	855	840	826	798	756	696	594
		Low	676	663	638	584	528	482	404
	CM24B	High	1105	1088	1060	1030	987	948	859
		Medium	825	815	802	780	752	678	591
		Low	655	636	616	569	504	467	345
MP12B	CM30B	High	1521	1471	1397	1322	1241	1161	1057
		Medium	1369	1329	1281	1224	1166	1092	1015
		Low	1130	1107	1071	1029	972	910	842
	CM36B	High	1557	1507	1440	1363	1289	1185	1125
		Medium	1351	1321	1266	1207	1153	1076	1019
		Low	1103	1083	1056	1024	976	928	851
MP14D	CM30D	High	2092	2038	1958	1884	1795	1714	1591
		Medium	1725	1697	1634	1598	1534	1454	1179
		Low	1374	1366	1339	1316	1250	1070	904
	CM36D	High	2099	2040	1980	1903	1814	1680	1605
		Medium	1725	1694	1652	1605	1541	1467	1182
		Low	1388	1372	1340	1306	1277	1106	1026
	CM42D	High	2083	2033	1960	1894	1820	1720	1459
		Medium	1690	1662	1623	1587	1534	1460	1233
		Low	1399	1393	1370	1338	1269	1159	1073
MP16C	CM36C	High	1850	1785	1705	1625	1541	1373	1242
		Medium	1693	1642	1574	1499	1378	1261	1145
		Low	1512	1465	1407	1324	1225	1101	1022
	CM42C	High	1815	1754	1680	1593	1472	1278	1206
		Medium	1670	1613	1554	1473	1311	1210	1082
		Low	1488	1445	1376	1259	1181	1056	979
	CM48C	High	1886	1818	1739	1646	1567	1348	1163
		Medium	1742	1683	1622	1538	1461	1237	1121
		Low	1563	1512	1455	1399	1234	1086	1019
MP20D	CM42D	High	2123	2076	2001	1926	1840	1744	1439
		Medium	1999	1959	1896	1821	1744	1651	1347
		Low	1851	1819	1768	1698	1626	1544	1269
	CM48D	High	2178	2107	2034	1953	1878	1775	1604
		Medium	2014	1965	1905	1843	1761	1660	1351
		Low	1867	1832	1779	1727	1661	1544	1280
	CM60D	High	2132	2052	1993	1899	1813	1733	1594
		Medium	1985	1941	1872	1798	1729	1648	1507
		Low	1848	1810	1758	1695	1627	1548	1355
	CM64D	High	2069	2011	1929	1848	1755	1651	1402
		Medium	1962	1902	1832	1758	1675	1558	1335
		Low	1833	1787	1734	1667	1581	1382	1269

1. Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Coleman

Model: MVC Series

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

ELECTRICAL HEAT - MINIMUM FAN SPEED

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models					
		MVC08B	MVC12B	MVC12C	MVC14D	MVC16C	MVC20D
6HK(0,1)6500206	2.4kW	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500506	4.8kW	Med (C)	Med Lo (D)	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500806	7.7kW	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(0,1)6501006 6HK36501025	9.6kW	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501306	12.5kW	Hi (A)	Med Hi (B)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501506 6HK36501525	14.4kW	–	Hi (A)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501806 6HK36501825	17.3kW	–	Hi (A)	Med Hi (B)	Med Hi (B)	Med (C)	Med (C)
6HK(1,2)6502006 6HK46502025	19.2kW	–	Hi (A)	Hi (A)	–	Med Hi (B)	Med (C)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	–	Med (C)

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

AIR FLOW DATA - CFM¹

High/Low Speed Cooling and Heat Pump CFM													
CFM													
Cool Tap ²	ADJ Tap ³	MVC08B		MVC12B		MVC12C		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
A	B	1022	562	1350	878	1350	878	1425	1037	1780	1144	1935	1316
B	B	795	437	1238	804	1125	866	1425	910	1540	1001	1772	1152
A	A	900	495	1200	780	1200	780	1425	926	1600	1040	1800	1170
B	A	700	385	1100	715	1000	770	1250	813	1400	910	1575	1024
A	C	783	431	1050	683	1050	683	1268	824	1424	926	1665	1082
C	B	766	421	1125	731	984	880	1344	874	1320	858	1491	969
B	C	609	335	963	626	875	674	1113	723	1246	810	1457	947
D	B	568	312	900	585	875	506	1120	728	1100	715	1350	878
C	A	675	371	1000	650	875	782	1200	780	1200	780	1325	861
D	A	500	275	800	520	600	450	1000	650	1000	650	1200	780
C	C	587	323	875	569	766	685	1068	694	1068	694	1226	797
D	C	435	239	700	455	525	394	890	579	890	579	1110	722
m3/min													
Cool Tap ²	ADJ Tap ³	MVC08B		MVC12B		MVC12C		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
A	B	28.9	15.9	38.2	24.8	38.2	24.9	40.4	29.4	49.8	32.4	54.8	37.3
B	B	22.5	12.4	35.0	22.8	31.9	24.5	40.4	25.8	43.6	28.3	50.2	32.6
A	A	25.5	14.0	34.0	22.1	34.0	22.1	40.4	26.2	45.3	29.4	51.0	33.1
B	A	19.8	10.9	31.1	20.2	28.3	21.8	35.4	23.0	39.6	25.8	44.6	29.0
A	C	22.2	12.2	29.7	19.3	29.7	19.3	35.9	23.3	40.3	26.2	47.1	30.6
C	B	21.7	11.9	31.9	20.7	27.9	24.9	38.1	24.7	37.4	24.3	42.2	27.4
B	C	17.2	9.5	27.3	17.7	24.8	19.1	31.5	20.5	35.3	22.9	41.3	26.8
D	B	16.1	8.8	25.5	16.6	19.1	14.3	31.7	20.6	31.1	20.2	38.2	24.8
C	A	19.1	10.5	28.3	18.4	24.8	22.1	34.0	22.1	34.0	22.1	37.5	24.4
D	A	14.2	7.8	22.7	14.7	17.0	12.7	28.3	18.4	28.3	18.4	34.0	22.1
C	C	16.6	9.1	24.8	16.1	21.7	19.4	30.2	19.7	30.2	19.7	34.7	22.6
D	C	12.3	6.8	19.8	12.9	14.9	11.2	25.2	16.4	25.2	16.4	31.4	20.4
High/Low Speed Heat CFM													
CFM													
Heat Tap	MVC08B		MVC12B		MVC12C		MVC14D		MVC16C		MVC20D		
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	
A	1025	980	1225	1020	1425	1150	1425	1050	1650	1200	1825	1150	
B	960	960	1150	950	1150	1000	1325	1000	1550	1150	1775	1050	
C	725	725	950	750	925	925	1125	950	1375	1050	1570	1000	
D	580	580	725	725	675	675	900	900	1150	1000	1375	950	
m3/min													
Heat Tap	MVC08B		MVC12B		MVC12C		MVC14D		MVC16C		MVC20D		
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	
A	29.0	27.8	34.7	28.9	40.4	32.6	40.4	29.7	46.7	34.0	51.7	32.6	
B	27.2	27.2	32.6	26.9	32.6	28.3	37.5	28.3	43.9	32.6	50.3	29.7	
C	20.5	20.5	26.9	21.2	26.2	26.2	31.9	26.9	38.9	29.7	44.5	28.3	
D	16.4	16.4	20.5	20.5	19.1	19.1	25.5	25.5	32.6	28.3	38.9	26.9	

- Air handler units have been tested to UL 1995 / CSA 22.2 No.236 standards up to 0.50" WC. external static pressure.
Dry coil conditions only, tested without filters.
For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.
- Low speed cooling used only with two stage outdoor units. Low Speed is preset to 65% of high speed. The MVC12C uses 65% for Tap A, 77% for Tap B, 89% for Tap C, 75% for Tap D.
- The ADJ tap does not affect the HEAT tap setting.
Dehumidification speed is 85% of jumper selected COOL tap and ADJUST tap.
At some settings, LOW COOL and/or LOW HEAT airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details.
Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: ARUF

MODEL	MOTOR SPEED	STATIC PRESSURE (IN W.C) AIRFLOW (CFM)						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
ARUF25B14	Low	650	620	595	540	490	420	275
	Med	885	865	825	815	750	690	560
	High	1255	1225	1130	1090	965	925	800
ARUF29B14	Low	650	620	595	540	490	420	275
	Med	885	865	825	815	750	690	560
	High	1255	1225	1130	1090	965	925	800
ARUF31B14	Low	660	625	595	560	500	430	330
	Med	930	905	865	820	765	700	590
	High	1235	1185	1130	1060	990	910	825
ARUF37C14	Low	1120	1085	1040	1000	940	875	800
	Med	1425	1385	1345	1285	1220	1145	1060
	High	1625	1575	1520	1460	1375	1295	1200
ARUF43C14	Low	1120	1085	1040	1000	940	875	800
	Med	1425	1385	1345	1285	1220	1145	1060
	High	1625	1575	1520	1460	1375	1295	1200
ARUF49C14	Low	1295	1255	1225	1175	1120	1055	970
	Med	1535	1485	1420	1370	1295	1215	1130
	High	1755	1680	1590	1515	1425	1340	1250
ARUF37D14	Low	1155	1115	1070	1015	955	895	840
	Med	1505	1470	1430	1375	1300	1210	1105
	High	1785	1735	1680	1625	1555	1440	1330
ARUF43D14	Low	1410	1360	1290	1210	1120	1010	920
	Med	1610	1540	1470	1390	1300	1190	1060
	High	1900	1830	1740	1645	1540	1420	1280
ARUF47D14	Low	1420	1370	1310	1240	1125	1045	960
	Med	1625	1585	1515	1435	1350	1235	1095
	High	1930	1890	1820	1735	1635	1505	1355
ARUF49D14	Low	1410	1360	1290	1210	1120	1010	920
	Med	1610	1540	1470	1390	1300	1190	1060
	High	1900	1830	1740	1645	1540	1420	1280
ARUF61D14	Low	1530	1500	1460	1405	1350	1280	1155
	Med	1950	1885	1830	1785	1745	1670	1595
	High	2235	2170	2100	2030	1965	1915	1825

NOTES

- Airflow data indicated is at 230V without air filter in place.
- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum design external static pressure.
- Use the CFM adjustment factors of 0.98 for horizontal left and 0.96 for horizontal right & downflow orientations

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: ASPT

ASPT 25B14AB	1	640	585	580	545	510	490	410	340	280	
	2	800	765	725	700	670	645	595	565	490	
	3	840	805	800	760	740	700	670	625	580	
	4	985	950	920	885	850	815	800	760	725	
	5	1,475	1,440	1,400	1,375	1,355	1,305	1,270	1,240	1,150	
ASPT 29B14AB	1	595	590	565	530	505	455	380	305	260	
	2	790	775	745	705	665	625	585	515	445	
	3	865	820	790	770	735	695	645	595	550	
	4	1,015	980	955	925	880	840	795	770	720	
	5	1,505	1,465	1,430	1,410	1,385	1,350	1,315	1,285	1,220	
ASPT 33C14BA	T1	865	685	615	540	480	410	335	270	215	
	T2	935	875	820	785	720	655	600	550	490	
	T3	1,110	1,050	1,000	955	905	855	795	760	710	
	T4	1,355	1,310	1,260	1,220	1,180	1,135	1,095	1,055	1,005	
	T5	1,560	1,515	1,475	1,430	1,395	1,370	1,330	1,295	1,260	
ASPT 35B14AB	1	875	845	845	825	795	780	730	680	630	
	2	985	945	925	915	905	880	845	795	760	
	3	1070	1025	990	985	980	960	940	905	860	
	4	1245	1205	1170	1135	1115	1115	1100	1090	1035	
	5	1310	1275	1230	1190	1155	1135	1085	1080	1040	
ASPT 37B14AB	1	1,025	985	945	910	875	830	795	735	690	
	2	1,150	1,105	1,065	1,025	995	950	915	870	825	
	3	1,240	1,200	1,160	1,120	1,085	1,050	1,010	970	925	
	4	1,425	1,400	1,355	1,320	1,290	1,250	1,215	1,180	1,145	
	5	1,490	1,455	1,415	1,390	1,355	1,320	1,285	1,250	1,205	
ASPT 37C14AC	1	980	935	895	860	825	800	755	710	665	
	2	1,125	1,075	1,045	1,000	965	930	880	845	820	
	3	1,235	1,190	1,155	1,120	1,085	1,045	1,005	965	920	
	4	1,485	1,450	1,425	1,390	1,355	1,315	1,275	1,230	1,190	
	5	1,565	1,535	1,510	1,480	1,240	1,390	1,365	1,320	1,280	
ASPT 39C14BA	T1	865	685	615	540	480	410	335	270	215	
	T2	935	875	820	785	720	655	600	550	490	
	T3	1,110	1,050	1,000	955	905	855	795	760	710	
	T4	1,355	1,310	1,260	1,220	1,180	1,135	1,095	1,055	1,005	
	T5	1,560	1,515	1,475	1,430	1,395	1,370	1,330	1,295	1,260	
ASPT 47C14BA	1	955	895	855	840	780	735	675	615	560	
	2	1,100	1,050	1,005	965	925	870	815	770	705	
	3	1,205	1,160	1,120	1,075	1,055	990	940	885	830	
	4	1,445	1,410	1,365	1,320	1,275	1,235	1,190	1,140	1,095	
	5	1,525	1,480	1,435	1,400	1,360	1,320	1,275	1,230	1,180	
ASPT 47D14AC	1	1,055	1,015	950	895	830	785	730	680	620	
	2	1,210	1,165	1,110	1,070	1,015	960	900	840	785	
	3	1,335	1,290	1,250	1,205	1,145	1,100	1,050	980	910	
	4	1,625	1,580	1,530	1,495	1,455	1,405	1,350	1,295	1,230	
	5	1,720	1,670	1,625	1,580	1,540	1,490	1,435	1,390	1,325	
ASPT 49C14AC	T1	1,325	1,280	1,240	1,200	1,160	1,115	1,065	1,025	985	
	T2	1,465	1,420	1,380	1,355	1,315	1,280	1,240	1,195	1,155	
	T3	1,505	1,465	1,425	1,390	1,355	1,330	1,290	1,245	1,205	
	T4	1,600	1,565	1,530	1,490	1,460	1,425	1,385	1,365	1,290	
	T5	1,690	1,660	1,625	1,585	1,555	1,520	1,485	1,400	1,250	
ASPT 49D14AC	1	1,485	1,435	1,380	1,320	1,265	1,200	1,230	1,015	930	
	2	1,570	1,525	1,480	1,430	1,370	1,315	1,235	1,155	1,035	
	3	1,680	1,600	1,570	1,555	1,475	1,430	1,360	1,280	1,185	
	4	1,800	1,765	1,715	1,670	1,625	1,590	1,510	1,465	1,390	
	5	2,215	2,160	2,120	2,085	2,040	2,000	1,970	1,930	1,865	

MODEL	SPEED TAP	STATIC PRESSURE (IN W.C)									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ASPT 59C14AC	1	1,370	1,530	1,295	1,255	1,215	1,180	1,140	1,100	1,060	
	2	1,535	1,500	1,465	1,430	1,405	1,370	1,335	1,300	1,210	
	3	1,680	1,645	1,615	1,575	1,545	1,510	1,440	1,330	1,205	
	4	1,905	1,855	1,780	1,690	1,605	1,515	1,425	1,330	1,205	
	5	1,940	1,855	1,775	1,700	1,605	1,505	1,420	1,320	1,205	
ASPT 61D14AC	1	1,545	1,495	1,440	1,390	1,335	1,260	1,180	1,080	1,030	
	2	1,745	1,695	1,625	1,575	1,525	1,475	1,400	1,360	1,275	
	3	1,905	1,855	1,815	1,770	1,725	1,670	1,655	1,575	1,500	
	4	2,155	2,105	2,090	2,045	2,000	1,970	1,955	1,890	1,830	
	5	2,340	2,310	2,265	2,220	2,185	2,165	2,120	2,080	2,030	

NOTES

- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
- Use the CFM adjustment factors of .98 for horizontal left, .95 for horizontal right & .96 for downflow orientations.
- Assumes dry coil with filter in place.
- All models are shipped from the factory with the speed tap set on T4.
- Assumes dry coil; SCFM correction for wet coil = 4%
- All ASPT models are shipped from the factory with the speed tap set on T4.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: DVPEC

MODEL	RATED AIR FLOW CFM								
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DV25PECB14A*	700	690	690	685	680	670	665	660	655
DV37PECC14A*	1190	1170	1165	1160	1145	1130	1120	1105	1100
DV59PECD14A*	1445	1440	1430	1415	1405	1390	1380	1375	1370
DV61PECD14A*	1645	1640	1640	1635	1630	1625	1620	1620	1615

MODEL	MAXIMUM AIR FLOW CFM								
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DV25PECB14A*	770	760	760	755	750	735	730	725	720
DV37PECC14A*	1310	1285	1280	1275	1260	1245	1230	1215	1210
DV59PECD14A*	1590	1585	1575	1560	1545	1530	1520	1515	1505
DV61PECD14A*	1810	1805	1805	1800	1790	1785	1780	1780	1775

Note:

- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
- Use the CFM adjustment factors of .98 for horizontal left, .95 for horizontal right & .96 for downflow orientations.
- Airflow data indicated is at 230V without air filter in place.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: DVPTC

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DV24PTCB14A*	A	Low	415	415	410	410	405	405	400	400	400
	B	Low	575	570	565	560	560	555	555	550	550
	C	Low	685	670	660	650	645	635	630	625	620
	D	Low	795	780	765	755	745	735	725	720	715
	A	High	620	615	610	605	600	600	595	590	590
	B	High	865	850	835	825	815	805	795	790	785
	C	High	1005	990	970	960	945	935	920	915	910
	D	High	1165	1145	1125	1110	1100	1085	1070	1065	1055
DV25PTCB14A*	A	Low	460	445	445	425	410	400	400	400	395
	B	Low	620	610	600	605	600	590	585	575	565
	C	Low	700	695	690	690	690	690	675	665	660
	D	Low	750	750	745	745	740	730	720	710	700
	A	High	670	660	650	650	655	645	640	635	625
	B	High	870	865	855	850	840	840	840	830	835
	C	High	1000	990	980	975	965	965	955	955	945
	D	High	1105	1095	1085	1075	1065	1055	1050	1040	1030
DV35PTCB14	A	Low	395	390	395	390	385	380	380	380	380
	B	Low	580	580	590	580	575	580	575	575	575
	C	Low	670	670	680	690	680	670	660	660	665
	D	Low	715	705	710	720	715	705	690	685	680
	A	High	645	630	645	645	635	630	630	635	635
	B	High	900	875	870	870	870	870	865	855	845
	C	High	1030	1015	1005	995	990	985	990	990	980
	D	High	1075	1060	1045	1035	1030	1025	1020	1020	1015
DV29PTCB14A* DV37PTCB14A*	A	Low	390	385	375	360	350	335	325	315	305
	B	Low	545	540	545	540	540	540	535	530	525
	C	Low	610	620	630	635	630	625	620	625	625
	D	Low	720	735	740	740	735	730	725	715	705
	A	High	615	620	610	605	610	615	615	620	625
	B	High	790	795	795	795	795	790	800	795	785
	C	High	925	930	930	925	925	920	915	910	905
	D	High	1085	1085	1085	1080	1080	1075	1070	1065	1060
DV30PTCC14A*	A	Low	465	455	440	430	425	415	405	400	395
	B	Low	615	610	605	600	595	595	590	585	585
	C	Low	755	745	740	735	730	725	720	720	715
	D	Low	900	890	885	880	875	870	865	865	860
	A	High	620	615	610	610	605	605	600	600	600
	B	High	850	840	835	830	825	820	815	815	810
	C	High	1030	1025	1020	1015	1010	1010	1005	1000	1000
	D	High	1245	1235	1225	1220	1210	1205	1200	1195	1195
DV31PTCC14A* DV37PTCC14A*	A	Low	610	600	590	590	600	605	610	610	610
	B	Low	710	710	705	705	695	690	685	675	665
	C	Low	845	845	845	825	815	810	800	805	795
	D	Low	915	910	910	900	850	840	830	820	825
	A	High	885	880	880	860	850	840	830	820	830
	B	High	1055	1055	1055	1040	1030	1015	1005	995	985
	C	High	1275	1270	1265	1260	1250	1240	1230	1215	1205
	D	High	1365	1360	1360	1330	1300	1290	1280	1270	1255
DV33PTCC14A*	A	Low	500	480	460	445	430	415	400	380	365
	B	Low	580	565	545	535	525	515	505	495	485
	C	Low	710	700	685	675	670	665	655	645	640
	D	Low	725	750	755	760	755	745	735	725	715
	A	High	710	700	685	685	685	680	670	660	645
	B	High	765	780	785	785	785	775	770	760	745
	C	High	950	960	970	970	970	960	955	945	935
	D	High	1090	1090	1090	1095	1090	1085	1080	1075	1065

Note: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DV36PTCC14A*	A	Low	515	505	500	485	465	460	450	425	410
	B	Low	715	705	700	685	675	670	660	640	630
	C	Low	950	935	930	910	895	890	875	855	835
	D	Low	1135	1125	1120	1105	1090	1085	1075	1055	1040
	A	High	740	730	725	710	695	690	680	660	645
	B	High	1015	1005	1000	985	965	960	950	925	910
	C	High	1345	1335	1330	1315	1300	1295	1290	1270	1255
	D	High	1615	1605	1600	1585	1570	1565	1555	1535	1520
DV37PTCD14A*	A	Low	605	605	605	575	560	545	525	510	500
	B	Low	730	725	725	700	700	695	680	660	645
	C	Low	820	820	820	800	760	750	740	720	700
	D	Low	870	885	940	885	875	865	850	835	835
	A	High	910	905	900	870	870	860	855	845	845
	B	High	1085	1080	1080	1060	1060	1055	1045	1035	1020
	C	High	1230	1225	1225	1205	1205	1200	1190	1185	1180
	D	High	1405	1405	1405	1370	1365	1355	1345	1335	1330
DV39PTCC14A*	A	Low	715	695	680	685	685	680	675	665	650
	B	Low	755	770	780	780	780	780	770	765	755
	C	Low	780	790	795	805	800	800	795	805	795
	D	Low	875	885	890	890	890	890	885	880	875
	A	High	960	960	965	970	965	965	960	955	950
	B	High	1120	1115	1115	1115	1120	1115	1115	1110	1105
	C	High	1180	1180	1175	1175	1175	1175	1170	1165	1160
	D	High	1325	1320	1315	1315	1310	1310	1310	1305	1300
DV42PTCD14	A	Low	600	580	560	545	535	520	505	500	490
	B	Low	795	780	765	750	740	730	720	715	710
	C	Low	1025	1010	995	985	970	960	950	945	940
	D	Low	1250	1235	1225	1215	1210	1200	1195	1190	1185
	A	High	835	815	800	790	780	765	755	750	745
	B	High	1115	1105	1090	1080	1070	1065	1055	1050	1045
	C	High	1445	1430	1420	1410	1405	1395	1390	1385	1380
	D	High	1775	1760	1750	1740	1735	1725	1720	1715	1710
DV48PTCC14A*	A	Low	510	505	500	490	485	480	475	465	455
	B	Low	710	705	700	690	680	680	670	660	650
	C	Low	940	935	930	920	910	910	905	890	880
	D	Low	1165	1160	1160	1155	1150	1145	1140	1135	1125
	A	High	735	730	725	715	705	700	695	685	675
	B	High	1010	1005	1000	990	985	980	975	965	955
	C	High	1340	1335	1330	1320	1310	1310	1305	1290	1280
	D	High	1675	1665	1660	1645	1635	1630	1620	1605	1590
DV48PTCD14A*	A	Low	910	910	900	895	885	880	875	870	850
	B	Low	1050	1045	1035	1030	1025	1020	1015	1010	1010
	C	Low	1155	1145	1140	1135	1130	1125	1120	1120	1115
	D	Low	1215	1210	1200	1195	1190	1185	1180	1175	1170
	A	High	1370	1360	1350	1345	1340	1330	1325	1325	1320
	B	High	1570	1560	1550	1545	1535	1530	1525	1520	1515
	C	High	1720	1710	1700	1695	1685	1680	1670	1670	1665
	D	High	1840	1820	1800	1785	1775	1760	1745	1740	1735
DV49PTCC14A*	A	Low	705	710	725	735	740	740	740	735	730
	B	Low	730	745	760	770	775	775	775	770	765
	C	Low	850	865	870	875	880	880	875	870	865
	D	Low	950	955	960	965	965	965	965	960	955
	A	High	1030	1040	1040	1045	1045	1045	1045	1040	1035
	B	High	1090	1095	1095	1095	1095	1095	1095	1090	1085
	C	High	1290	1290	1280	1285	1280	1280	1275	1275	1270
	D	High	1425	1425	1420	1420	1415	1410	1410	1405	1400

Note: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DV49PTCD14A*	A	Low	795	815	820	820	810	800	785	785	770
	B	Low	870	890	895	895	890	875	865	850	850
	C	Low	985	990	995	995	990	980	970	955	940
	D	Low	1040	1055	1055	1055	1045	1035	1025	1020	1005
	A	High	1195	1195	1195	1200	1195	1185	1175	1165	1155
	B	High	1325	1320	1320	1315	1315	1305	1295	1285	1275
	C	High	1460	1460	1455	1455	1455	1450	1440	1430	1420
	D	High	1520	1530	1530	1530	1530	1525	1515	1510	1495
DV59PTCCL14A*	A	Low	635	620	610	600	600	600	600	600	600
	B	Low	790	805	810	810	805	805	795	810	800
	C	Low	930	940	940	935	930	925	920	915	905
	D	Low	1065	1065	1070	1065	1060	1050	1045	1035	1030
	A	High	870	880	875	875	870	865	860	860	845
	B	High	1230	1230	1225	1220	1210	1205	1200	1190	1180
	C	High	1420	1410	1410	1405	1395	1385	1380	1380	1370
	D	High	1615	1600	1595	1595	1585	1580	1570	1565	1555
DV59PTCD14A*	A	Low	1030	1035	1040	1040	1030	1025	1015	995	970
	B	Low	1260	1260	1260	1260	1260	1250	1245	1235	1225
	C	Low	1330	1335	1330	1330	1325	1320	1315	1305	1295
	D	Low	1395	1395	1395	1390	1390	1385	1375	1365	1355
	A	High	1450	1445	1445	1435	1430	1425	1420	1410	1395
	B	High	1795	1790	1790	1785	1775	1765	1760	1750	1745
	C	High	1890	1890	1890	1880	1870	1865	1855	1850	1840
	D	High	1995	1995	1990	1985	1985	1975	1965	1955	1945
DV60PTCD14A*	A	Low	1205	1205	1210	1205	1205	1200	1195	1195	1195
	B	Low	1375	1370	1365	1360	1360	1355	1355	1350	1350
	C	Low	1445	1445	1450	1445	1445	1440	1440	1440	1435
	D	Low	1535	1530	1525	1520	1520	1515	1510	1510	1510
	A	High	1615	1615	1610	1610	1605	1605	1600	1600	1600
	B	High	1825	1820	1815	1810	1810	1805	1805	1805	1800
	C	High	1930	1925	1920	1915	1915	1910	1905	1905	1900
	D	High	2040	2030	2025	2020	2015	2010	2005	2005	2000
DV61PTCD14A*	A	Low	1080	1085	1080	1085	1080	1075	1070	1065	1055
	B	Low	1200	1200	1210	1210	1210	1210	1205	1205	1200
	C	Low	1290	1290	1280	1275	1280	1280	1270	1265	1265
	D	Low	1360	1355	1350	1355	1350	1345	1340	1340	1330
	A	High	1630	1630	1630	1625	1620	1615	1610	1600	1590
	B	High	1820	1820	1820	1815	1805	1795	1785	1780	1770
	C	High	1935	1930	1925	1920	1905	1900	1890	1875	1865
	D	High	2035	2030	2025	2020	2005	1995	1985	1960	1955

Note: When applying a humidistat (normally dosed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

HTR KW	S9	S10	S11	DV24 PTCB14	DV25 PTCB14	DV29 PTCB14	DV30 PTCC14	DV37 PTCC14	DV33 PTCC14	DV35PTCB16 DV37PTCB14	DV37 PTCD14	DV39 PTCC14	DV42 PTCD14†	DV31 PTCC14
3	ON	ON	ON	730	550	550	730	NR	600	550	---	---	850**	600
5	ON	ON	OFF	780	650	650	780	850	700	650	1240	850	1400	850
6	ON	OFF	ON	850	700	700	850	900	750	700	1240	900	1630	900
8	ON	OFF	OFF	950	800	800	950	1000	875	800	1240	1000	1630	1000
10	OFF	ON	ON	1025	850	875	1025	1170	950	875	1240	1170	1670	1170
15	OFF	ON	OFF	---	875	875	---	1345	950	1050	1520	1345	1720	1345
15*	OFF	OFF	ON	---	---	---	---	1345	---	---	---	1345	---	1345
20	OFF	OFF	ON	---	---	---	---	NR	---	---	1520	---	1800	NR
21	OFF	OFF	OFF	---	---	---	---	NR	---	---	---	---	---	NR
25*	OFF	OFF	OFF	---	---	---	---	NR	---	---	---	---	---	NR

Note: Airflow data shown applies to the electric heat only in either legacy mode or communicating mode operation

* Within thermostat user menu CTKD* communicating thermostat will display 20KW for OFF- OFF- ON dip switch selection, 21kW for OFF-OFF-OFF dip switch selection.

NR - Not rated

† For match-up with a 2-ton outdoor unit; heater kit application shall not exceed 10 kW. Airflow for 5 kW up to 10 kW heater kits shall be set to 850 CFM speed tap of ON-ON-ON.

†† For match-up with a 3-ton outdoor unit; heater kit application shall not exceed 15 kW. Airflow for 5 kW up to 15 kW heater kits shall be set to 1400 CFM speed tap of ON-ON-OFF.

††† For match-up with a 3.5-ton outdoor unit; heater kit application shall not exceed 20 kW. Airflow for 5 kW up to 20 kW heater kits shall be set to 1620 CFM speed tap of ON-ON-OFF.

** 3 kW heater kit is not applicable for this indoor application.

HTR KW	S9	S10	S11	DV48 PTCC14	DV48 PTCD14††	DV49 PTCC14	DV49PTC D14 ††	DV59PTC C14	DV59PTC D14	DV60 PTCD14†††	DV61PTC D14 ††
3	ON	ON	ON	---	---	---	---	---	---	NR	---
5	ON	ON	OFF	850	1400	1170	1250	1170	1240	1620	1250
6	ON	OFF	ON	900	1630	1170	1300	1170	1240	1670	1300
8	ON	OFF	OFF	1000	1630	1170	1500	1170	1240	1720	1500
10	OFF	ON	ON	1200	1670	1170	1550	1170	1240	1750	1550
15	OFF	ON	OFF	1440	1720	1345	1720	1345	1520	1780	1780
15*	OFF	OFF	ON	1500	---	1345	---	1345	---	---	---
20	OFF	OFF	ON	1500	1815	---	---	---	1520	1850	1850
21	OFF	OFF	OFF	---	1850	---	---	---	---	1850	---
25*	OFF	OFF	OFF	---	---	---	---	---	---	---	1850

Note: Airflow data shown applies to the electric heat only in either legacy mode or communicating mode operation

* Within thermostat user menu CTKD* communicating thermostat will display 20KW for OFF- OFF- ON dip switch selection, 21kW for OFF-OFF-OFF dip switch selection.

NR - Not rated

† For match-up with a 2-ton outdoor unit; heater kit application shall not exceed 10 kW. Airflow for 5 kW up to 10 kW heater kits shall be set to 850 CFM speed tap of ON-ON-ON.

†† For match-up with a 3-ton outdoor unit; heater kit application shall not exceed 15 kW. Airflow for 5 kW up to 15 kW heater kits shall be set to 1400 CFM speed tap of ON-ON-OFF.

††† For match-up with a 3.5-ton outdoor unit; heater kit application shall not exceed 20 kW. Airflow for 5 kW up to 20 kW heater kits shall be set to 1620 CFM speed tap of ON-ON-OFF.

** 3 kW heater kit is not applicable for this indoor application.

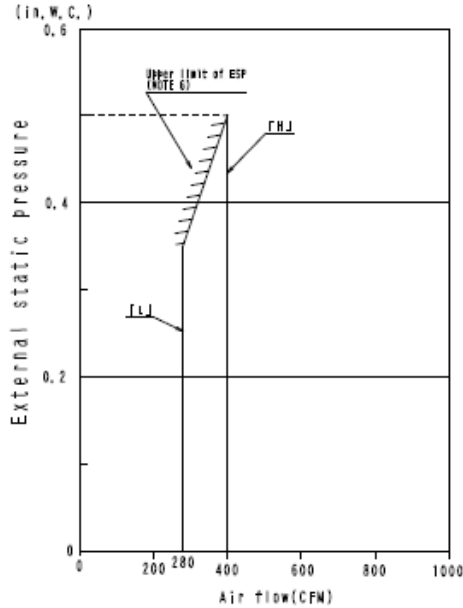
PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: FTQ-PA

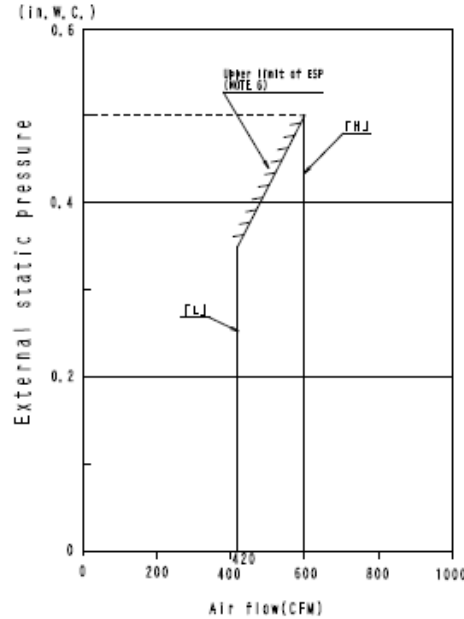
7. Airflow Auto Adjustment Characteristics

FXTQ12PAVJU



3D068210

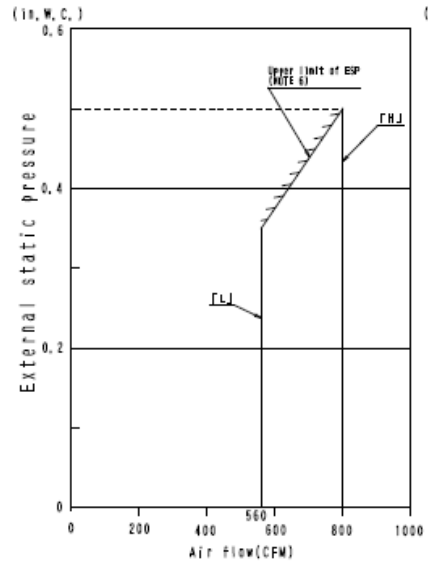
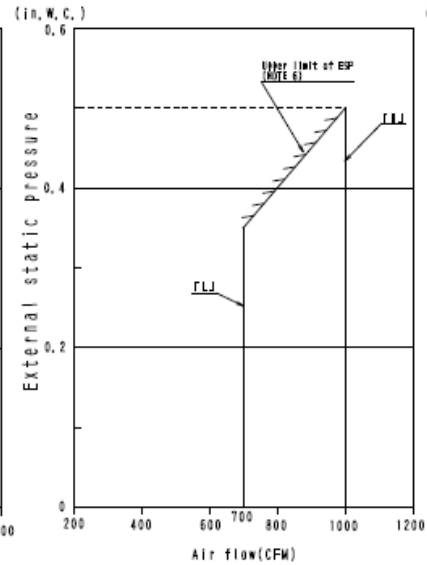
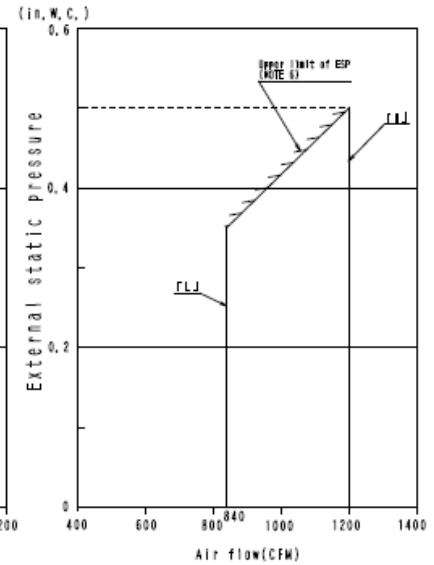
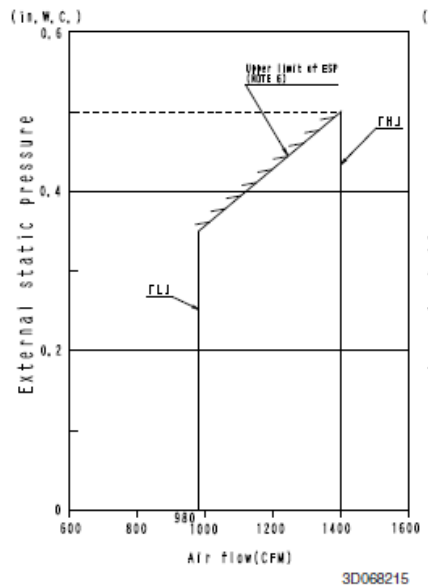
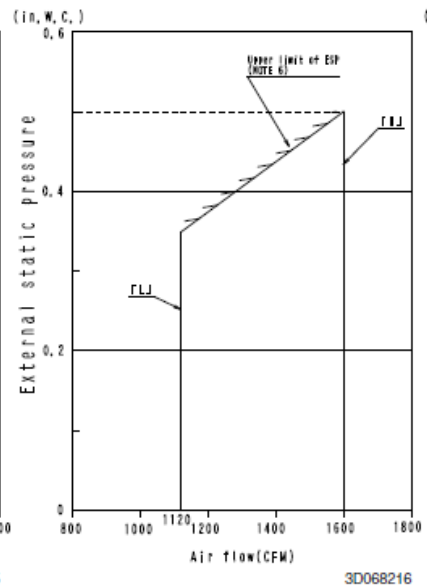
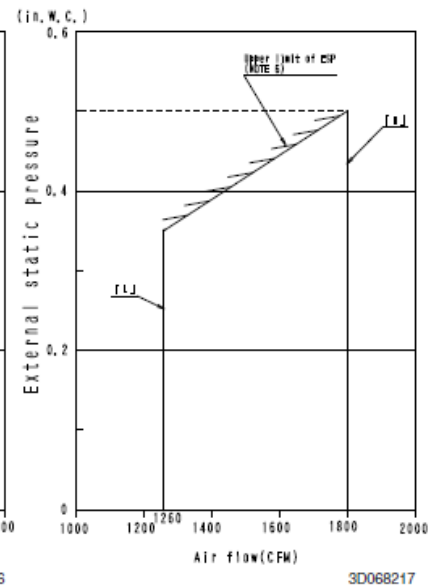
FXTQ18PAVJU



3D068211

Notes:

1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated volume.
2. The unit automatically adjusts external static pressure between 0.0 in.W.C. - 0.5 in.W.C (When fan speed is "H").
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. This figure shows a fan characteristics at "H" speed and "L" speed.
5. Fan speed is changeable by using the remote controller.
6. ESP: external static pressure.

FXTQ24PAVJU**FXTQ30PAVJU****FXTQ36PAVJU****FXTQ42PAVJU****FXTQ48PAVJU****FXTQ54PAVJU****Notes:**

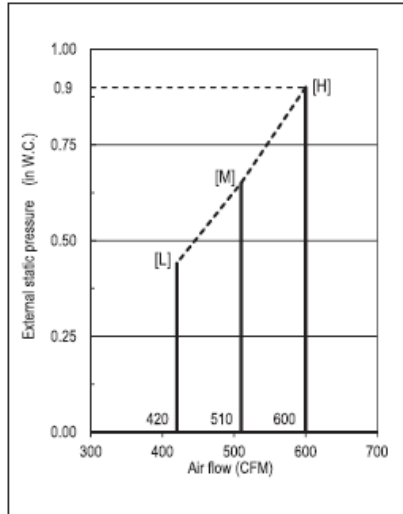
1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated volume.
2. The unit automatically adjusts external static pressure between 0.0 in.W.C. - 0.5 in.W.C. (When fan speed is "H").
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. This figure shows a fan characteristics at "H" speed and "L" speed.
5. Fan speed is changeable by using the remote controller.
6. ESP: external static pressure.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

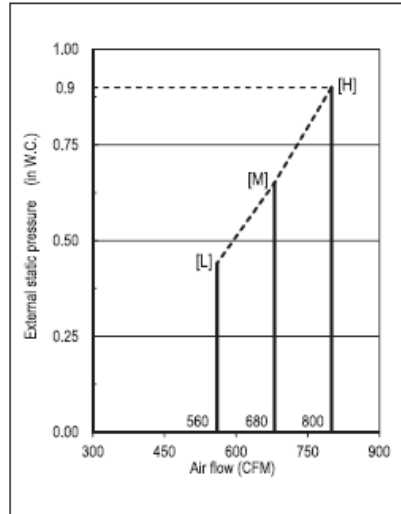
Manufacturer: Daikin

Model: FTQ-TA

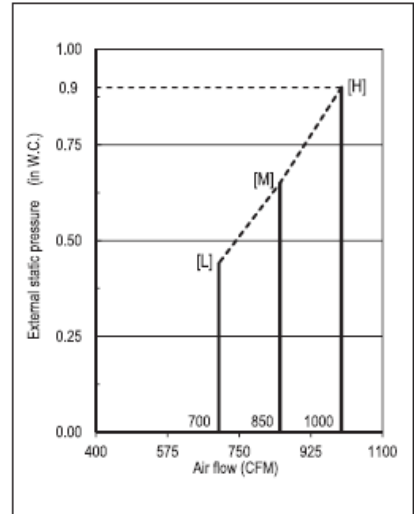
16.2 FTQ
FTQ18TAVJUD
FTQ18TAVJUA



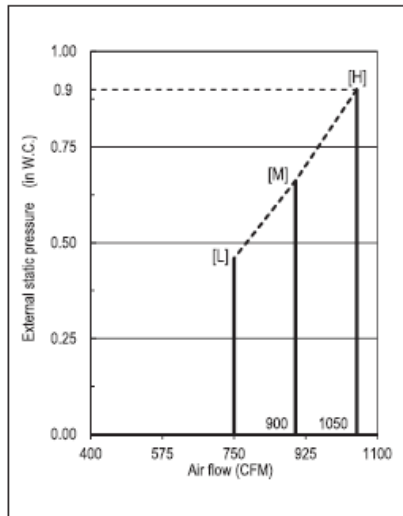
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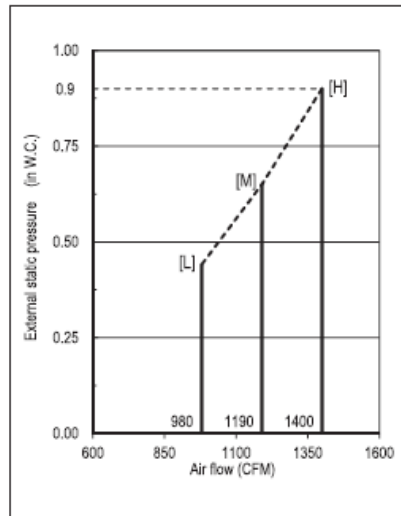
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FTQ30TAVJUA



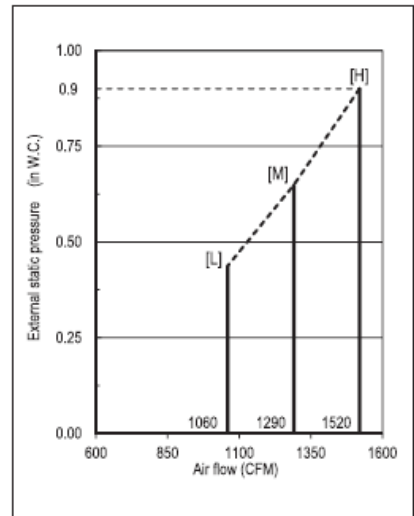
FTQ36TAVJUD
FTQ36TAVJUA



FTQ42TAVJUD
FTQ42TAVJUA



FTQ48TAVJUD
FTQ48TAVJUA



Note:

1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated air volume.
2. The unit automatically adjusts the external static pressure between 0.0 in. W.C. - 0.9 in. W.C.
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. Fan speed is changeable by using the remote controller.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: MBR

SPEED	STATIC	MBR1200**-* SCFM	MBR1600**-* SCFM	MBR2000**-* SCFM
High	0.1	1,500	1,800	2,160
	0.2	1,460	1,740	2,080
	0.3	1,360	1,680	1,990
	0.4	1,280	1,610	1,890
	0.5	1,200	1,520	1,790
	0.6	1,110	1,430	1,690
Medium	0.1	1,380	1,540	1,730
	0.2	1,320	1,490	1,670
	0.3	1,270	1,450	1,590
	0.4	1,200	1,400	1,520
	0.5	1,140	1,350	1,420
	0.6	1,040	1,280	1,320
Low	0.1	1,170	1,130	1,520
	0.2	1,130	1,100	1,450
	0.3	1,080	1,070	1,360
	0.4	1,020	1,030	1,290
	0.5	950	990	1,200
	0.6	830	930	1,090

NOTES

- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
- Use the CFM adjustment factors of .98 for horizontal left, .95 for horizontal right & .96 for downflow orientations.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Daikin

Model: MBVC

AIRFLOW DATA

MODEL	SPEED TAP	SPEED	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
MBVC1200A*	A	Low	420	415	400	400	395	390	390	390	380
	B	Low	550	545	540	540	535	530	530	525	520
	C	Low	680	675	670	665	660	655	655	650	640
	D	Low	810	805	800	800	800	795	790	785	785
	A	High	615	605	600	600	595	590	590	585	580
	B	High	805	805	800	800	800	795	790	785	780
	C	High	1010	1005	1000	1000	995	995	990	985	975
	D	High	1210	1205	1200	1200	1200	1195	1195	1190	1180
MBVC1600A*	A	Low	690	680	670	665	660	655	625	595	575
	B	Low	850	830	800	795	790	785	775	750	725
	C	Low	980	970	940	935	930	910	890	865	860
	D	Low	1110	1085	1070	1055	1045	1025	1000	990	975
	A	High	1045	1015	1000	990	975	950	935	920	900
	B	High	1245	1215	1200	1180	1175	1165	1150	1130	1115
	C	High	1415	1410	1400	1365	1360	1350	1340	1330	1320
	D	High	1605	1600	1600	1540	1530	1520	1510	1500	1490
MBVC2000A*	A	Low	835	815	800	800	795	795	790	775	750
	B	Low	1075	1070	1070	1065	1050	1045	1045	1040	1035
	C	Low	1210	1205	1200	1200	1195	1190	1190	1185	1175
	D	Low	1345	1340	1340	1320	1320	1315	1315	1305	1305
	A	High	1210	1205	1200	1195	1150	1150	1145	1135	1115
	B	High	1610	1605	1600	1540	1535	1535	1530	1520	1510
	C	High	1830	1805	1800	1785	1760	1760	1755	1750	1715
	D	High	2020	2010	2000	1995	1995	1970	1970	1965	1955

COOLING AND HEAT PUMP AIRFLOW

S1	S2	SPEED TAP	MBVC1200 AIRFLOW (SCFM)	MBVC1600 AIRFLOW (SCFM)	MBVC2000 AIRFLOW (SCFM)
off	off	A	600	1000	1200
on	off	B	800	1200	1600
off	on	C	1000	1400	1800
on	on	D	1200	1600	2000

HEAT KIT AIRFLOW

COOLING / HP / Aux TRIM			COOLING PROFILE		
S3	S4	Trim Value	S5	S6	
off	off	0	off	off	A
on	off	10%	on	off	B
off	on	-10%	off	on	C
on	on	0	on	on	D

NOTES

- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
- Use the CFM adjustment factors of .98 for horizontal left, .95 for horizontal right & .96 for downflow orientations.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Goodman

Model: ASPT

MODEL	SPEED TAP	STATIC PRESSURE (IN W.C)									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ASPT 25B14AB	1	640	585	580	545	510	490	410	340	280	
	2	800	765	725	700	670	645	595	565	490	
	3	840	805	800	760	740	700	670	625	580	
	4	985	950	920	885	850	815	800	760	725	
	5	1,475	1,440	1,400	1,375	1,335	1,305	1,270	1,240	1,150	
ASPT 29B14AB	1	595	590	565	530	505	455	380	305	260	
	2	790	775	745	705	665	625	585	515	445	
	3	865	820	790	770	735	695	645	595	530	
	4	1,015	980	955	925	880	840	795	770	720	
	5	1,505	1,465	1,430	1,410	1,385	1,350	1,315	1,285	1,220	
ASPT 33C14BA	1	865	685	615	540	480	410	335	270	215	
	2	935	875	820	785	720	655	600	550	490	
	3	1,110	1,050	1,000	955	905	855	795	760	710	
	4	1,355	1,310	1,260	1,220	1,180	1,135	1,095	1,055	1,005	
	5	1,560	1,515	1,475	1,430	1,395	1,370	1,330	1,295	1,260	
ASPT 35B14AB	1	875	845	845	825	795	780	730	680	630	
	2	985	945	925	915	905	880	845	795	760	
	3	1,070	1,025	990	985	980	960	940	905	860	
	4	1,245	1,205	1,170	1,135	1,115	1,115	1,100	1,090	1,035	
	5	1,310	1,275	1,230	1,190	1,155	1,135	1,085	1,080	1,040	
ASPT 37B14AB	1	1,025	985	945	910	875	830	795	755	690	
	2	1,150	1,105	1,065	1,025	995	950	915	870	825	
	3	1,240	1,200	1,160	1,120	1,085	1,050	1,010	970	925	
	4	1,425	1,400	1,355	1,320	1,290	1,250	1,215	1,180	1,145	
	5	1,490	1,455	1,415	1,390	1,355	1,320	1,285	1,250	1,205	
ASPT 37C14AC	1	980	935	895	860	825	800	755	710	665	
	2	1,125	1,075	1,045	1,000	965	930	880	845	820	
	3	1,235	1,190	1,155	1,120	1,085	1,045	1,005	965	920	
	4	1,485	1,450	1,425	1,390	1,355	1,315	1,275	1,230	1,190	
	5	1,565	1,535	1,510	1,480	1,440	1,390	1,365	1,320	1,280	
ASPT 39C14BA	1	865	685	615	540	480	410	335	270	215	
	2	935	875	820	785	720	655	600	550	490	
	3	1,110	1,050	1,000	955	905	855	795	760	710	
	4	1,355	1,310	1,260	1,220	1,180	1,135	1,095	1,055	1,005	
	5	1,560	1,515	1,475	1,430	1,395	1,370	1,330	1,295	1,260	
ASPT 47C14BA	1	955	895	855	840	780	735	675	615	560	
	2	1,100	1,050	1,005	965	925	870	815	770	705	
	3	1,205	1,160	1,120	1,075	1,035	990	940	885	830	
	4	1,445	1,410	1,365	1,320	1,275	1,235	1,190	1,140	1,095	
	5	1,525	1,480	1,435	1,400	1,360	1,320	1,275	1,230	1,180	
ASPT 47D14AC	1	1,055	1,015	950	895	830	785	730	680	620	
	2	1,210	1,165	1,110	1,070	1,015	960	900	840	785	
	3	1,335	1,290	1,250	1,205	1,145	1,100	1,050	980	910	
	4	1,625	1,580	1,530	1,495	1,455	1,405	1,350	1,295	1,230	
	5	1,720	1,670	1,625	1,580	1,540	1,490	1,435	1,390	1,325	
ASPT 49C14AC	1	1,325	1,280	1,240	1,200	1,160	1,115	1,065	1,025	985	
	2	1,465	1,420	1,380	1,355	1,315	1,280	1,240	1,195	1,155	
	3	1,505	1,465	1,425	1,390	1,355	1,330	1,290	1,245	1,205	
	4	1,600	1,565	1,530	1,490	1,460	1,425	1,385	1,365	1,290	
	5	1,690	1,660	1,625	1,585	1,555	1,520	1,485	1,400	1,250	
ASPT 49D14AC	1	1,485	1,435	1,380	1,320	1,265	1,200	1,230	1,015	930	
	2	1,570	1,525	1,480	1,430	1,370	1,315	1,235	1,155	1,035	
	3	1,680	1,600	1,570	1,555	1,475	1,430	1,360	1,280	1,185	
	4	1,800	1,765	1,715	1,670	1,625	1,590	1,510	1,465	1,390	
	5	2,215	2,160	2,120	2,085	2,040	2,000	1,970	1,930	1,865	

MODEL	SPEED TAP	STATIC PRESSURE (IN W.C.)									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ASPT 59C14AC	1	1,370	1,330	1,295	1,255	1,215	1,180	1,140	1,100	1,060	
	2	1,535	1,500	1,465	1,430	1,405	1,370	1,335	1,300	1,210	
	3	1,680	1,645	1,615	1,575	1,545	1,510	1,440	1,330	1,205	
	4	1,905	1,855	1,780	1,690	1,605	1,515	1,425	1,330	1,205	
	5	1,940	1,855	1,775	1,700	1,605	1,505	1,420	1,320	1,205	
ASPT 61D14AC	1	1,545	1,495	1,440	1,390	1,335	1,260	1,180	1,080	1,030	
	2	1,745	1,695	1,625	1,575	1,525	1,475	1,400	1,360	1,275	
	3	1,905	1,855	1,815	1,770	1,725	1,670	1,635	1,575	1,500	
	4	2,155	2,105	2,090	2,045	2,000	1,970	1,935	1,890	1,830	
	5	2,340	2,310	2,265	2,220	2,185	2,165	2,120	2,080	2,030	

- Notes:
- Airflow data indicated is at 230V without air filter in place.
 - The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
 - The shaded area indicates ranges in excess of maximum design external static pressure.
 - Use the CFM adjustment factors of 0.98 for horizontal left and 0.96 for horizontal right & downflow orientations.
 - When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Goodman

Model: AVPTC

AVPTC25B14B*, AVPTC33C14B*		
Tons	High Stage CFM	Default Low Stage CFM
1.5	600	402
2	800	536

AVPTC39C14B*		
Tons	High Stage CFM	Default Low Stage CFM
2.5	1,000	670
3	1,200	804

AVPTC29B14B*		
Tons	High Stage CFM	Default Low Stage CFM
1.5	600	402
2	800	536
2.5	1,000	670

AVPTC49C14B*, AVPTC49D14B*, AVPTC59C14B*		
Tons	High Stage CFM	Default Low Stage CFM
3	1,200	804
3.5	1,400	938
4	1,600	1,072

AVPTC31C14B*, AVPTC35B14B* AVPTC37B14B*, AVPTC37C14B*		
Tons	High Stage CFM	Default Low Stage CFM
2	800	536
2.5	1,000	670
3	1,200	804

AVPTC59D14B*		
Tons	High Stage CFM	Default Low Stage CFM
3.5	1,400	938
4	1,600	1,072
4.5	1,800	1,206
5	2,000	1,340

AVPTC37D14B*		
Tons	High Stage CFM	Default Low Stage CFM
3	1,200	804

AVPTC61D14B*		
Tons	High Stage CFM	Default Low Stage CFM
4	1,600	1,072
4.5	1,800	1,206
5	2,000	1,340

Notes:

1. For installations with a communicating outdoor unit, airflow is set automatically by the condenser or heat pump. No indoor airflow setting is needed for the install.
2. For installations with a non-communicating outdoor unit, target airflows are listed in the tables above.
3. Recommended external static pressures are 0.1- 0.5 in. wc (0.6 in. wc and above not recommended).
4. Listed airflow values are targets only. Actual airflow may deviate from targets due to variations in individual installations and may be adjusted using trim values in the CoolCloud app or onboard push button menus
5. For most installations, 400 SCFM per ton is desirable.

ELECTRIC HEAT AIRFLOW TABLE											
Htr Kw	AVPTC25B14	AVPTC29B14	AVPTC29B14 AVPTC29B14	AVPTC31C14	AVPTC31C14	AVPTC37C14 AVPTC39C14	AVPTC49C14 AVPTC59C14	AVPTC37D14	AVPTC49D14 ++	AVPTC59D14	AVPTC61D14 ++
3	550	550	550	600	600	NR	NR	NR	NR	NR	NR
5	650	650	650	700	700	700	800	870	950	990	1030
6	700	700	700	770	750	770	800	970	1060	1110	1150
8	800	800	800	880	850	880	950	1060	1150	1200	1250
10	850	850	850	970	920	970	1090	1120	1220	1240	1320
15	875	875	875	1090	950	1090	1290	1220	1520	1520	1650
19	NR	NR	1050	1280	NR	1280	1345	NR	NR	NR	NR
20	NR	NR	NR	NR	NR	NR	NR	1250	NR	1520	1690
21	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1750

Selecting Heater Kit: Use the Electric Heating Wattage Menu (Eht) to select heater kit size. See "Menu Navigation and Selection Instructions" in Installation Manual. Default selection is 0 (No Heat Kit). Select installed heater kit for heater kit operation.

NR- Not Rated

++ For match up with a 3 ton outdoor unit: Airflow for 5kW up to 15kW heater kits shall be set to 1220 CFM by selecting 10 in the Electric Heating Wattage (Eht) menu.

+++ For match up with a 3.5 ton outdoor unit: Heater kit application shall not exceed 20 kW. Airflow for 5kW up to 20kW heater kits shall be set to 1320 CFM by selecting 10 in the Electric Heating Wattage (Eht) menu.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Goodman

Model: MBVC

MODEL	SPEED TAP	SPEED	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
MBVC1201A*	A	Low	420	415	400	400	395	390	390	390	380
	B	Low	550	545	540	540	535	530	530	525	520
	C	Low	680	675	670	665	660	655	655	650	640
	D	Low	810	805	800	800	800	795	790	785	785
	A	High	615	605	600	600	595	590	590	585	580
	B	High	805	805	800	800	800	795	790	785	780
	C	High	1010	1005	1000	1000	995	995	990	985	975
	D	High	1210	1205	1200	1200	1200	1195	1195	1190	1180
MBVC1601A*	A	Low	690	680	670	665	660	655	625	595	575
	B	Low	850	830	800	795	790	785	775	750	725
	C	Low	980	970	940	935	930	910	890	865	860
	D	Low	1110	1085	1070	1055	1045	1025	1000	990	975
	A	High	1045	1015	1000	990	975	950	935	920	900
	B	High	1245	1215	1200	1180	1175	1165	1150	1130	1115
	C	High	1415	1410	1400	1365	1360	1350	1340	1330	1320
	D	High	1605	1600	1600	1540	1530	1520	1510	1500	1490
MBVC2001A*	A	Low	835	815	800	800	795	795	790	775	750
	B	Low	1075	1070	1070	1065	1050	1045	1045	1040	1035
	C	Low	1210	1205	1200	1200	1195	1190	1190	1185	1175
	D	Low	1345	1340	1340	1320	1320	1315	1315	1305	1305
	A	High	1210	1205	1200	1195	1150	1150	1145	1135	1115
	B	High	1610	1605	1600	1540	1535	1535	1530	1520	1510
	C	High	1830	1805	1800	1785	1760	1760	1755	1750	1715
	D	High	2020	2010	2000	1995	1995	1970	1970	1965	1955

COOLING AND HEAT PUMP AIRFLOW

S1	S2	SPEED TAP	MBVC1201 AIRFLOW (SCFM)	MBVC1601 AIRFLOW (SCFM)	MBVC2001 AIRFLOW (SCFM)
off	off	A	600	1000	1200
on	off	B	800	1200	1600
off	on	C	1000	1400	1800
on	on	D	1200	1600	2000

HEAT KIT AIRFLOW

COOLING / HP / AUX TRIM			COOLING PROFILE		
S3	S4	Trim Value	S5	S6	
off	off	0	off	off	A
on	off	10%	on	off	B
off	on	-10%	off	on	C
on	on	0	on	on	D

NOTES

- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
- Use the CFM adjustment factors of .98 for horizontal left, .95 for horizontal right & .96 for downflow orientations.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Lennox

Model: CBA25UH

Air Flow – Cooling Blower Speed

The cooling blower speed is factory configured to provide correct air flow for an outdoor unit that matches the cooling capacity rating of the air handler.

If the outdoor unit is smaller than the maximum cooling capacity rating for the air handler, the cooling blower speed may need to be changed. Refer to blower performance chart, table 2 on page 16 .

⚠ WARNING



Electric shock hazard! - Disconnect all power supplies before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

CHANGE BLOWER SPEED

- 1 - Disconnect all power supplies.
- 2 - Remove the air handler access panel.
- 3 - Locate pin number 2 on the blower relay. Two black wires are connected to this terminal pin. One connects to pin number 5 on the blower relay, one connects to an in-line splice connecting to a blue wire.
- 4 - Select the required blower motor speed. Connect red-LO or black-HI and plug it into the 4-pin blower relay harness connector.

NOTE - Reuse the factory-installed wire nut on the unused wires.

- 5 - Replace all panels.
- 6 - Reconnect power.

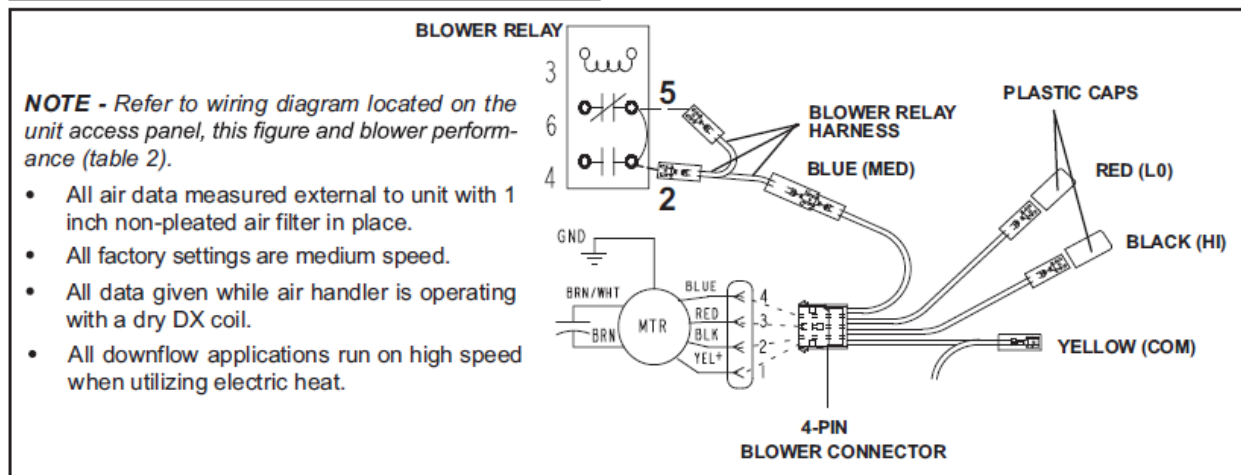


FIGURE 1. Changing Blower Speed

Blower Data

CBA25UH-018 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	920	264	690	190	540	144
0.20	880	251	670	183	525	140
0.30	855	238	640	176	505	136
0.40	790	224	605	167	470	130
0.50	710	210	550	155	420	122

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBA25UH-024 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1105	342	1010	280	675	210
0.20	1045	322	980	262	675	202
0.30	1000	307	940	247	655	192
0.40	915	284	805	235	630	180
0.50	855	268	740	216	590	170

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBA25UH-030 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1310	496	1080	391	870	310
0.20	1260	466	1055	378	870	301
0.30	1215	449	1025	361	855	288
0.40	1155	431	985	343	810	278
0.50	1085	408	935	325	770	265

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBA25UH-036 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1560	532	1275	402	1020	295
0.20	1520	518	1240	388	970	287
0.30	1445	502	1190	375	955	280
0.40	1395	480	1150	363	910	270
0.50	1325	460	1085	346	805	254

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

Blower Data

CBA25UH-042 PERFORMANCE

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1815	674	1525	498	1300	394
0.20	1755	652	1495	486	1275	387
0.30	1695	634	1450	473	1250	376
0.40	1605	607	1390	455	1210	367
0.50	1530	582	1345	441	1155	356

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBA25UH-048 PERFORMANCE (Less Filter)

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High		Medium-High		Medium		Medium-Low		Low	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1895	597	1770	493	1715	454	1500	315	1250	211
0.20	1860	629	1735	510	1670	470	1465	331	1210	222
0.30	1835	632	1700	529	1635	487	1435	348	1185	231
0.40	1795	656	1670	544	1615	504	1400	364	1130	239
0.50	1760	667	1650	552	1575	514	1360	379	1110	251

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

CBA25UH-060 PERFORMANCE (Less Filter)

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High		Medium-High		Medium		Medium-Low		Low	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1980	624	1905	538	1815	484	1625	354	1100	132
0.20	1955	644	1870	563	1785	493	1595	365	1050	140
0.30	1925	643	1835	568	1760	507	1565	385	1000	144
0.40	1895	663	1810	585	1730	527	1520	398	925	162
0.50	1860	673	1765	595	1685	542	1490	398	830	172

NOTE - All air data measured external to unit with dry coil and 1 inch non-pleated air filter in place.
Electric heaters have no appreciable air resistance.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Lennox

Model: CBA25UHE

Measuring Static Pressure

- 1 - Measure tap locations as shown in figure 9.

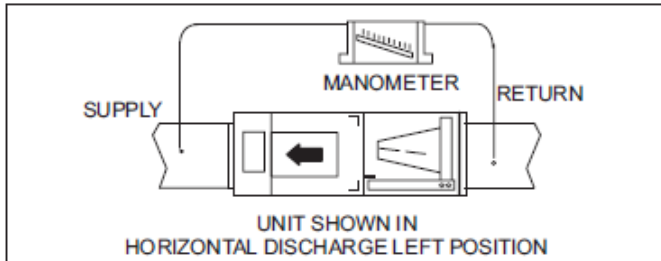


FIGURE 9. Static Pressure Test

- 2 - Punch a 1/4" (6mm) diameter hole in supply and return air plenums. Insert manometer hose flush with inside edge of hole or insulation. Seal around the hose with permagum. Connect the zero end of the manometer to the discharge (supply) side of the system. On ducted systems, connect the other end of manometer to the return duct as above. For systems with non-ducted returns, leave the other end of the manometer open to the atmosphere.
- 3 - With only the blower motor running and the evaporator coil dry, observe the manometer reading. Adjust blower motor speed to deliver the air desired according to the job requirements.
- 4 - For best air performance external static pressure drop must not exceed 0.5" W.C. (1.2 kPa). Refer to blower data tables for CFM and external static.
- 5 - Seal around the hole when the check is complete.

Adjusting Blower Speed

MOTOR SPEED TAPS

NOTE – Motor is programmed for a 45-second delayed OFF on all speed taps except TAP #1 (continuous fan speed).

Table 4 lists the recommended factory blower speed tap selections for CBA27UH series units.

TABLE 4. Recommended Blower Speed Tap Selection

Operation	CBA27UHE	Outdoor Unit	Tap
Cooling	ALL SIZES	Air conditioner	3
		Heat pump	3
Heating*		Air conditioner with electric heat only	4
		Heat pump with electric heat	4

*Minimum setting for heat

These settings are for nominal tonnage match-ups with the CBA27UHE units. When matched with other sizes, it is recommended that the CFM be adjusted to approximately 400 CFM per ton.

To change blower motor speed tap remove the speed tap from Y2 on the terminal strip and insert the desired speed tap. Use the Blower Data tables on pages 10 and 11 for the desired CFM setting.

IMPORTANT

The high-efficiency programmable motor features programmed electronic braking. The integral control brakes the motor near the end of the supply blower operation, allowing the motor to maintain a more controlled ramping shut-down.

TABLE 5. Motor Speed Taps

Tap	Operation	Remarks
1	Continuous or low-speed fan (for two-speed heat pumps or AC units)	Continuous fan speed is energized (24volt input to G) when either G or Y1 has a 24 volt signal (24 volt input from Y1 passes through the room thermostat's Fan Automatic contacts to the G terminal).
2	Low-speed operation on high-static system	CFM set at 1/2 ton less than nominal of unit (e.g. 3-ton set at 1000 CFM).
3	Cooling speed setting	CFM set at 400 cfm per nominal ton at ARI minimum static allowed, as follows: 1.5 to 2.0 ton - 0.10 2.5 to 3.5 ton - 0.15 4 to 5 ton - 0.20
4	Heat pump with electric heat	CFM set at 400 cfm per nominal ton at .4 static. Energized when electric heat element has a call for heat.
5	High-static applications	CFM set at 400 cfm per nominal ton at .8 static.

BLOWER DATA

CBA27UHE-018 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	717	66	707	63	735	74	781	81	959	133
.20	596	58	570	54	636	70	737	91	922	144
.30	473	56	430	48	603	77	697	101	877	150
.40	402	61	335	54	540	81	651	105	846	161
.50	358	67	302	60	492	92	607	117	811	173
.60	295	74	248	63	434	94	561	121	769	179
.70	262	79	202	72	399	103	507	131	727	187
.80	N/A	N/A	N/A	N/A	348	108	459	137	695	196

CBA27UHE-024 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	767	78	753	75	826	88	957	131	1095	189
.20	662	68	648	66	791	100	937	142	1063	199
.30	615	76	612	77	750	108	895	149	1040	211
.40	561	83	539	83	711	116	861	160	1010	226
.50	522	87	507	89	681	126	821	172	970	230
.60	450	96	438	93	628	134	778	175	944	237
.70	419	100	411	103	584	142	750	186	905	248
.80	365	110	358	108	521	147	702	194	864	256

CBA27UHE-030 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	1061	115	1104	126	1169	154	1212	166	1278	200
.20	941	103	973	118	1070	144	1157	173	1241	210
.30	789	90	848	104	1019	151	1121	185	1201	223
.40	640	83	789	111	991	165	1077	199	1169	233
.50	525	93	728	118	946	175	1038	209	1124	244
.60	469	101	629	128	900	181	1006	215	1100	256
.70	434	104	581	139	851	194	956	230	1051	268
.80	365	116	521	155	754	208	915	237	1000	275

CBA27UHE-036 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts at 208V									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	1074	134	1099	147	1264	206	1343	240	1498	340
.20	962	121	1027	143	1222	220	1291	253	1467	344
.30	887	126	989	153	1192	234	1269	266	1433	364
.40	852	136	944	164	1144	242	1224	280	1391	378
.50	791	150	894	172	1111	257	1194	286	1365	383
.60	717	160	820	186	1067	266	1153	297	1320	398
.70	649	168	745	202	1037	270	1118	309	1290	407
.80	606	183	697	213	999	284	1081	317	1247	422

BLOWER DATA

CBA27UHE-042 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	1282	177	1346	201	1497	261	1489	261	1723	398
.20	1143	159	1278	204	1475	281	1461	273	1690	408
.30	1067	162	1233	209	1447	297	1427	290	1656	434
.40	1024	175	1199	223	1406	315	1407	305	1639	438
.50	920	189	1154	235	1376	320	1360	324	1599	462
.60	923	197	1099	252	1345	338	1328	336	1573	473
.70	838	204	1022	267	1294	358	1303	351	1541	485
.80	815	218	1003	275	1238	375	1228	373	1494	515

CBA27UHE-048 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	1359	190	1509	257	1718	362	1773	401	1903	511
.20	1238	174	1473	273	1690	380	1758	419	1899	515
.30	1135	172	1453	289	1658	397	1707	434	1868	535
.40	1090	180	1450	290	1619	412	1687	449	1830	553
.50	1032	195	1374	315	1588	431	1660	465	1801	558
.60	980	204	1336	331	1561	440	1618	472	1770	582
.70	929	223	1295	339	1510	457	1593	493	1733	600
.80	867	235	1227	363	1488	473	1552	508	1703	618

CBA27UHE-060 BLOWER PERFORMANCE

External Static Pressure in. w.g.	Air Volume and Motor Watts									
	Tap 1		Tap 2		Tap 3		Tap 4		Tap 5	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
.10	1404	206	1704	340	1886	453	1928	481	2268	800
.20	1295	194	1658	349	1849	467	1905	510	2228	829
.30	1256	204	1631	365	1806	489	1869	525	2192	830
.40	1199	217	1594	386	1784	505	1842	546	2169	856
.50	1145	236	1549	394	1751	523	1799	548	2136	870
.60	1091	248	1508	413	1720	534	1775	569	2106	894
.70	978	270	1474	433	1683	549	1741	592	2089	907
.80	946	279	1440	453	1655	566	1709	611	2050	925

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Lennox

Model: CBA38MV

Air Handler Control Button, Display and Jumpers

Use figure 24 as a reference for jumper settings. If any of the referenced jumpers are missing, the Air Handler Control will display Error Code 130 as per table 10, and the Air Handler Control will automatically use the factory default setting shown in figure 24.

⚠ IMPORTANT

Before changing any clippable links or jumper settings, make sure the motor has completely stopped. Any changes will not take place while the motor is running.

PUSH BUTTON

An on-board push button is provided for the purpose of placing the Air Handler Control in different operation modes and can be used to recall stored error codes. When button is pushed and held, Air Handler Control will cycle through a menu of options depending on current operating mode. Every three seconds a new menu item will be displayed. If the button is released while that item is shown on the display, Air Handler Control will enter displayed operating mode, or execute defined operation sequence for that menu option. Once all items on menu have been displayed the menu resumes from the beginning (if button is still held).

- 1 - Press the diagnostic push button and hold it to cycle through a menu of options. Every three seconds a new menu item will be displayed. Release the button when the desired mode is displayed.
- 2 - When the solid "E" is displayed, the control enters the Error Code Recall mode. Error Code Recall mode menu options: Display will cycle through Error Codes and will automatically exit Error Code recall once the last error code has been reached; solid "≡" exits Error Code Recall mode; and solid "c" clears the error history. Must press button while flashing "c" is displayed to clear error codes. Cycling power to AHC will clear stored error codes.
- 3 - When the solid "-" is displayed, the control enters the applicable mode. Field configuration mode menu options: "H" electric heat stages detected; the AHC automatically detects the electric heat when power is applied and does not require "manual electric heat detection" using the push button, "A" Blower Test Mode or "P" programming or configuring unit size code. Releasing the button when solid "-" is displayed exits current active mode.

JUMPERS

Jumpers are used for non-communicating mode only.

- 1 - **Humidification** – Controls the status of H terminal on the thermostat block. Configurations are as follows:
 - If jumper is installed in **SMART** Humidification position (Default), H terminal is active if heat demand is present and indoor blower is running.
 - If jumper is installed in **AUTO** Humidification posi-

tion, H terminal is energized whenever indoor blower is running.

- 2 - **EvenHeat** – Target Discharge Air Temperature selection is used to set discharge air temperatures for EvenHeat operation.

NOTE - Optional Discharge Air Temperature Sensor, Lennox Catalog # 88K38 is REQUIRED for EVENHEAT operation and must be ordered separately.

- 3 - **Blower Only CFM** – Used to select Indoor blower CFM for continuous operation.
- 4 - **Heat** – Used to select Indoor blower CFM for electrical heat by placing the jumper in proper position. Actual CFM values for different air handler sizes are shown in Targeted CFM tables starting on page 30.
- 5 - **Cool** – Used to select cooling indoor blower CFM by placing the jumper in proper position. Actual CFM values for different air handler sizes are shown in Targeted CFM tables starting on page 30.
- 6 - **Adjust** - Used to select the indoor blower CFM adjustment value by placing the jumper in appropriate position.

- If **NORM** is selected, indoor blower runs at normal speeds.
- If **+** is selected, indoor blower runs at approximately 10% higher speed than **NORM** setting.
- If **-** is selected, indoor blower runs at approximately 10% lower speed than **NORM** setting.

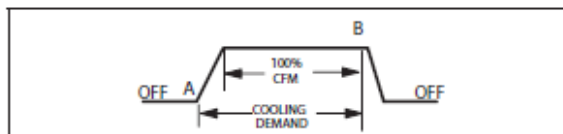
If the jumper is missing, the Air Handler Control will activate the *Configuration Jumper is Missing* alarm in and will automatically use the default factory setting in table 10. See figure 24 for jumper configurations. Actual CFM values for different air handler sizes are shown in Targeted CFM tables starting on page 26.

- 7 - **Delay** – Indoor blower cooling profile, delay for cooling and heat pump operations.
- For heat pump **heating** operation only delay profiles 1 and 2 are applicable. If profiles 3 or 4 have been selected, heat pump operation will use profile 1 only.
 - For heat pump **cooling** operation all 4 profiles are operational.

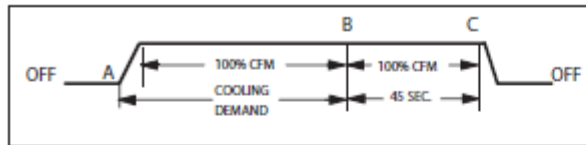
If the jumper is missing, the Air Handler Control will activate the *Configuration Jumper is Missing* alarm and will automatically use the default factory setting in table 10. See figure 24 for jumper configurations.

Delay Profile 1

- A - When cool or heat demand is initiated, motor ramps up to 100% and runs at 100% until demand is satisfied.
- B - Once demand is met, motor ramps down to stop.

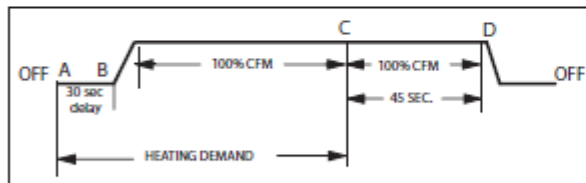


Delay Profile 2
Cooling – Air Conditioner and Heat Pump



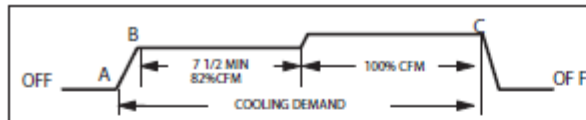
- A - When cool demand is initiated, motor ramps up to 100% and runs at 100% until demand is satisfied.
- B - Once demand is met, motor runs at 100% for 45 seconds.
- C - Motor ramps down to stop.

Heating – Heat Pump Only



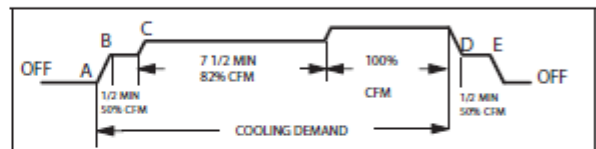
- A - When heat demand is initiated, 30 seconds motor on delay starts.
- B - After the motor on delay expires, motor ramps up to 100% and runs at 100% until demand is satisfied.
- C - Once demand is met, motor runs at 100% for 45 seconds.
- D - Motor ramps down to stop.

Delay Profile 3



- A - When cooling demand is initiated, motor ramps up to 82%.
- B - Motor runs at 82% for approximately 7.5 minutes and then ramps up to 100% (unless the demand has been satisfied) and motor runs at 100% until demand is satisfied.
- C - Once demand is met, motor ramps down to stop.

Delay Profile 4



- A - When cooling demand is initiated, motor ramps up to 50%.
- B - Motor runs at 50% for 30 seconds and ramps up to 82%.
- C - Motor runs at 82% for approximately 7.5 minutes and then ramps up to 100% (unless the demand has been satisfied) and motor runs at 100% until demand is satisfied.
- D - Once demand is met, motor runs at 50% for 30 seconds.
- E - Motor ramps down to stop.

DISPLAY

An on-board single character LED display (see figure 20 for LED display location) indicates general system status information such as mode of operation, indoor blower CFM and error codes. Multi-character strings are displayed with character ON for one second, OFF for 0.5 seconds and one second pause between the character groups.

TABLE 10. AHC System Status Codes

AHC Single Character Display	Action
Letter or Number	Unit Size Code displayed represents air handler model size and capacity . See <i>Configuring Unit Size Codes</i> in figure 22.
≡	If three horizontal bars are displayed, AHC does not recognize air handler model size and capacity. See <i>Configuring Unit Size Codes</i> in Figure 22.
.	Idle mode (decimal point / no unit operation)
R	Cubic feet per minute (cfm) setting for indoor blower (1 second ON, 0.5 second OFF) / cfm setting for current mode displayed. Example: R 1000
C	Cooling Compressor Capacity (1 second ON, 0.5 second OFF) / % of input rate displayed/ Pause/ cfm setting displayed/ Pause/ Repeat codes on systems with iComfort communicating outdoor unit. C1 or C2 displayed / Pause/ cfm setting displayed/ Pause/ Repeat when installed with a non-communicating outdoor unit. Example C70 or C100 with communicating outdoor unit or C1 or C2 with non-communicating outdoor units
d	Dehumidification mode (1 second ON) / 1 second OFF) / cfm setting displayed / Pause / Repeat Codes)
d F	Defrost mode. (Y, W and O call)
H	Electric Heat Stage (1 second ON, 0.5 second OFF) / 1 or 2 displayed / Pause / cfm setting displayed / Pause / Repeat codes. Example: H0 or H 1 or H2 or H3
h	Compressor Heating Capacity (1 second ON, 0.5 second OFF) / % of input rate displayed/ Pause/ cfm setting displayed/ Pause/ Repeat codes on systems with iComfort communicating outdoor unit. h1 or h2 displayed / Pause/ cfm setting displayed/ Pause/ Repeat when installed with a non-communicating outdoor unit. Example h10 or h 100 with communicating outdoor unit or h 1 or h2 with non-communicating outdoor units
U	Discharge air sensor temperature (indoor blower must be operating) U 105

TABLE 11. AHC Configuration, Test and Error Recall (Fault and Lockout) Function

NOTE — AHC MUST BE IN IDLE MODE)		
Single Character LED Display		Action
Solid	-	Push and hold button until solid appears, release button.
Solid	-	Press and hold Solid "-" until required symbol displays . <i>H</i> <i>A</i> or <i>P</i>
CONFIGURING ELECTRIC HEAT SECTIONS – AHC will automatically configure electric heat when 240V power is applied.		
Solid	<i>H</i>	Air Handler Control has been enhanced to automatically configure electric heat when the electric heat harness is connected to the air handler and 240 volt power is applied. The air handler will not energize the blower and heat stages during the automatic electric heat detection process. Releasing the push button when "H" is displayed will display the stages of electric heat that were automatically detected upon power up. Example HO, H1, H2, H3, H4, H5. H2 indicates 2 stage of electric heat were detected.
INDOOR BLOWER TEST		
Solid	<i>A</i>	Release push button - control cycles indoor blower on for ten seconds at 70% of maximum air for selected capacity size unit. Control will automatically exit current active mode.
CONFIGURING UNIT SIZE CODES		
Single Character LED Display		Action
Solid	<i>P</i>	RELEASE push button - This mode allows the field to select a unit size code (number or letter) that matches the air handler model size and capacity. IMPORTANT — All field replacement controls may be manually configured to confirm air handler model size and capacity.
Blinking	<i>P</i>	1. When the correct Unit Size Code is displayed, RELEASE push button. Selected code will flash for 10 second period. 2. During ten second period, HOLD push button until code stops blinking (three seconds minimum). 3. Air Handler Control will store code in memory and exit current active mode. LED display will go blank and then the Unit Size Code will display for 2 to 5 seconds. NOTE - If ten second period expires, or push button is held less than 3 seconds, control will automatically exit current active mode and go into IDLE Mode without storing unit size code. If this occurs, then Unit Size Code configuring procedure must be repeated.
ERROR CODE RECALL MODE (NOTE — CONTROL MUST BE IN IDLE MODE)		
Solid	<i>E</i>	To enter Error Code Recall Mode — PUSH and HOLD button until solid E appears, then RELEASE button. Control will display up to ten error codes stored in memory. If E000 is displayed, there are no stored error codes.
Solid	≡	Error Code Recall will automatically exit after the last stored code is displayed. To exit Error Code Recall Mode — PUSH and HOLD button until solid three horizontal bars appear, then RELEASE button. <i>NOTE - Error codes are not cleared</i>
Solid	<i>C</i>	To clear error codes stored in memory, continue to HOLD push button while the three horizontal bars are displayed. Release push button when solid c is displayed. Error codes are automatically cleared when 240V power is cycled off and then back on.
Blinking	<i>C</i>	Push and hold for one (1) second, release button. Seven-segment will display 0000 and exit error recall mode.

Target CFM Tables

BLOWER DATA

CBA38MV-018/024 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
+	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	480	685	885	1050	480	685	885	1050
	NORM	400	575	795	940	400	575	795
-	385	515	715	830	385	515	715	830

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

BLOWER DATA

CBA38MV-030 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
+	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	630	875	1095	1315	630	875	1095	1315
	NORM	545	785	995	1195	545	785	995
-	510	700	890	1075	510	700	890	1075

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

BLOWER DATA

CBA38MV-036 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
+	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	920	1255	1410	1580	920	1255	1410	1580
	NORM	815	1165	1315	1435	815	1165	1315
-	720	1010	1155	1285	720	1010	1155	1285

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.

First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.

Lennox iHarmony® Zoning System applications - minimum blower speed is 250 cfm.

Target CFM Tables (cont'd)

BLOWER DATA

CBA38MV-042 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1100	1320	1540	1760	1100	1320	1540	1760
NORM	1000	1200	1400	1600	1000	1200	1400	1600
-	900	1080	1260	1440	900	1080	1260	1440

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
 First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.
 Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

BLOWER DATA

CBA38MV-048 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1670	1870	2100	2200	1670	1870	2100	2200
NORM	1460	1670	1870	2100	1460	1670	1870	2100
-	1230	1410	1600	1800	1230	1410	1600	1800

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
 First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.
 Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

BLOWER DATA

CBA38MV-060 BLOWER PERFORMANCE

0 through 0.80 in. w.g. External Static Pressure Range

"ADJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1695	1890	2140	2210	1695	1890	2140	2210
NORM	1525	1680	1850	2075	1525	1680	1850	2075
-	1300	1450	1630	1800	1300	1450	1630	1800

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
 First stage cooling air volume is 70% of COOL speed setting. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.
 Lennox iHarmony® Zoning System applications - minimum blower speed is 450 cfm.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Lennox

Model: CBX40UHV

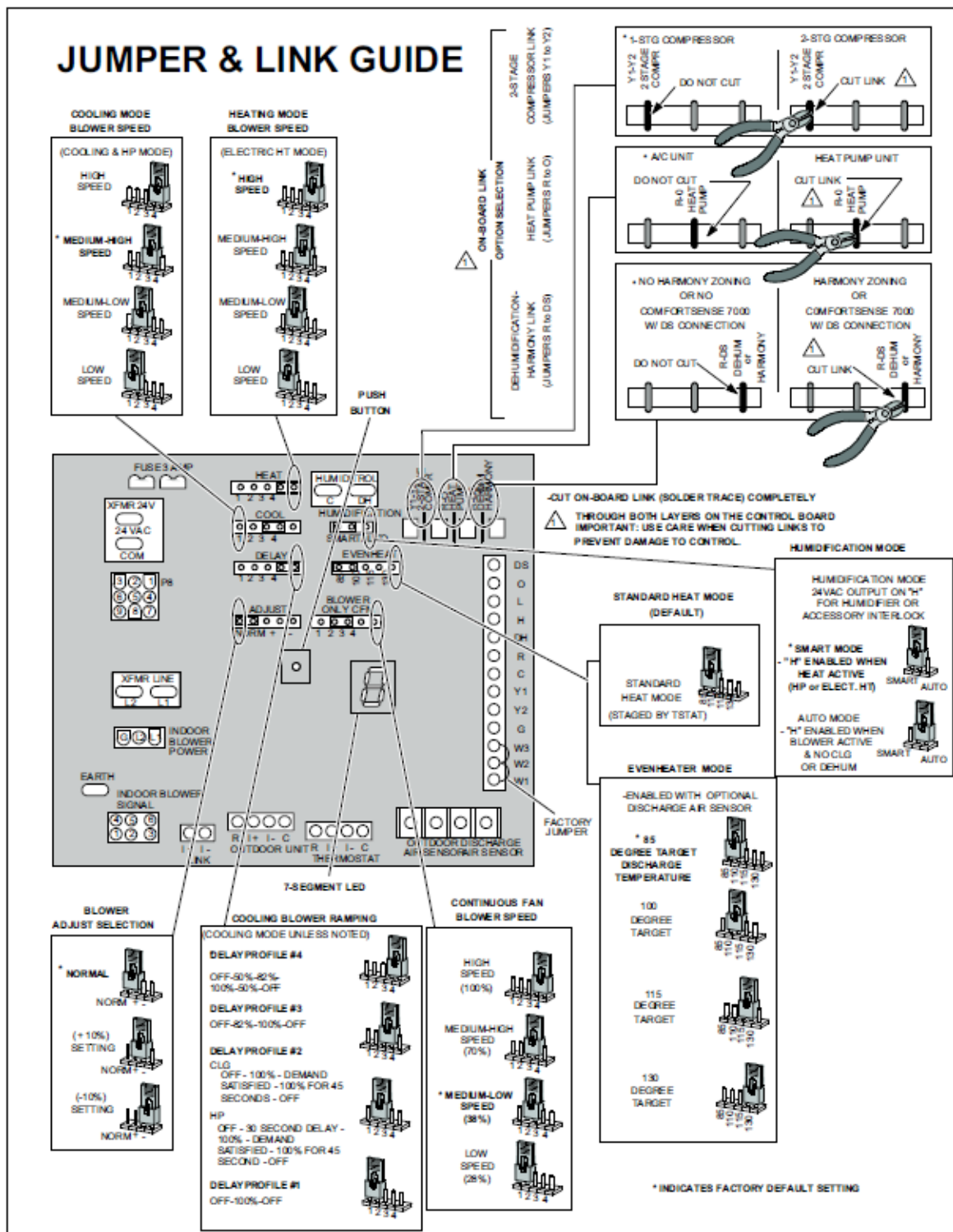


Figure 16. Air Handler Configuration

Air Handler Control Button, Display and Jumpers

Use figure 16 as reference for jumper settings. If any of the referenced jumpers are missing, the Air Handler Control will display Error Code **130** as per table 10, and the Air Handler Control will automatically use the **factory default** setting shown in figure 16)

▲ IMPORTANT

Before changing any dipswitch links or jumper settings, make sure the motor has completely stopped. Any changes will not take place while the motor is running.

PUSH BUTTON

An on-board push button is provided for the purpose of placing the Air Handler Control in different operation modes and can be used to recall stored error codes. When button is pushed and held, Air Handler Control will cycle through a menu of options depending on current operating mode. Every three seconds a new menu item will be displayed. If the button is released while that item is shown on the display, Air Handler Control will enter displayed operating mode, or execute defined operation sequence for that menu option. Once all items on menu have been displayed the menu resumes from the beginning (if button is still held).

JUMPERS

Jumpers are used for non-communicating mode only.

- Humidification** — Controls the status of **H** terminal on the thermostat block. Configurations are as follows:
 - If jumper is installed in **SMART** Humidification position (Default), **H** terminal is active if heat demand is present and indoor blower is running.
 - If jumper is installed in **AUTO** Humidification position, **H** terminal is energized whenever indoor blower is running.
- EvenHeat** — Target Discharge Air Temperature selection is used to set discharge air temperatures for EvenHeat operation.

NOTE - Optional Discharge Air Temperature Sensor, Lennox Catalog # 88K38 is **REQUIRED** for **EVENHEAT** operation and must be ordered separately.

- Blower Only CFM** — Used to select Indoor blower CFM for continuous operation.
- Heat** — Used to select Indoor blower CFM for electrical heat by placing the jumper in proper position. Actual CFM values for different air handler sizes are shown in the **Targeted CFM Tables**.
- Cool** — Used to select cooling indoor blower CFM by placing the jumper in proper position. Actual CFM values for different air handler sizes are shown in the **Targeted CFM Tables**.
- Adjust** - Used to select the indoor blower CFM adjustment value by placing the jumper in appropriate position.

- If **NORM** is selected, indoor blower runs at normal speeds.
- If **+** is selected, indoor blower runs at approximately 10% higher speed than **NORM** setting.
- If **-** is selected, indoor blower runs at approximately 10% lower speed than **NORM** setting.

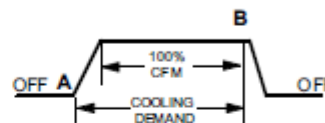
If the jumper is missing, the Air Handler Control will activate the *Configuration Jumper is Missing* alarm in and will automatically use the default factory setting in table 10. See figure 16 for jumper configurations. Actual CFM values for different air handler sizes are shown in the **Targeted CFM Tables**.

- Delay** — Indoor blower cooling profile, delay for cooling and heat pump operations.
 - For heat pump **heating** operation only delay profiles 1 and 2 are applicable. If profiles 3 or 4 have been selected, heat pump operation will use profile 1 only.
 - For heat pump **cooling** operation all 4 profiles are operational.

If the jumper is missing, the air handler control will activate the *Configuration Jumper is Missing* alarm and will automatically use the default factory setting in table 10. See figure 16 for jumper configurations.

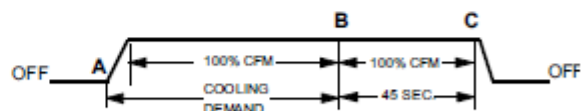
Delay Profile 1

- When cool or heat demand is initiated, motor ramps up to 100% and runs at 100% until demand is satisfied.
- Once demand is met, motor ramps down to stop.



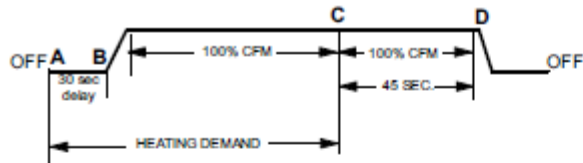
Delay Profile 2

Cooling — Air Conditioner and Heat Pump:



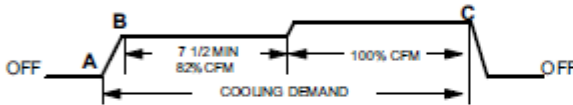
- When cool demand is initiated, motor ramps up to 100% and runs at 100% until demand is satisfied.
- Once demand is met, motor runs at 100% for 45 seconds.
- Motor ramps down to stop.

Heating — Heat Pump only:



- A. When heat demand is initiated, 30 seconds motor on delay starts
- B. After the motor on delays expires, motor ramps up to 100% and runs at 100% until demand is satisfied.
- C. Once demand is met, motor runs at 100% for 45 seconds.
- D. Motor ramps down to stop.

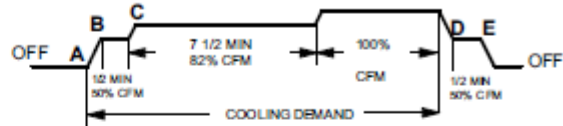
Delay Profile 3



- A. When cool demand is initiated, motor ramps up to 82%

- B. Motor runs at 82% for approximately 7.5 minutes and then ramp up to 100% (unless the demand has been satisfied) and motor runs at 100% until demand is satisfied.
- C. Once demand is met, motor ramps down to stop

Delay Profile 4



- A. When cool demand is initiated, motor ramps up to 50%
- B. Motor runs at 50% for 30 seconds and ramps up to 82%
- C. Motor runs at 82% for approximately 7.5 minutes and then ramp up to 100% (unless the demand has been satisfied) and motor runs at 100% until demand is satisfied.
- D. Once demand is met, motor runs at 50% for 30 seconds.
- E. Motor ramps down to stop

AHC CHARACTER DISPLAY

An on-board single character LED display (see figure 16 for LED display location) indicates general system status information such as mode of operation, indoor blower CFM and error codes. Multi-character strings are displayed with character ON for one second, OFF for 0.5 seconds and one second pause between the character groups.

Table 11. AHC System Status Codes

AHC Single Character Display	Action
Letter or Number	Unit Size Code (number or letter) displayed represents air handler model size and capacity. See <i>Configuring Unit Size Codes</i> in figure 18.
≡	If three horizontal bars are displayed, AHC does not recognize air handler model size and capacity. See <i>Configuring Unit Size Codes</i> in figure 18.
.	Idle mode (decimal point / no unit operation)
<i>R</i>	Delivered CFM. Example: <i>R</i> 200
<i>⌈</i>	Stage Cooling (Shows active cooling stages) <i>⌈</i> 1 or <i>⌈</i> 2
<i>d</i>	Dehumidification mode (Unit in dehumidification mode only)
<i>d F</i>	Shown only while in active defrost (Y, W and O call)
<i>H</i>	Stage heating (Shows number of active electric heat pilot relays) <i>H</i> 1 or <i>H</i> 2 or <i>H</i> 3
<i>h</i>	Stage heat pump (shows active heat pump stages) <i>h</i> 1 or <i>h</i> 2
<i>U</i>	Discharge air sensor temperature (indoor blower must be operating) <i>U</i> 105

Table 12. AHC Configuration, Test and Error Recall (Fault and Lockout) Function

NOTE — AHC MUST BE IN IDLE MODE)		
Single Character LED Display		Action
Solid	-	Push and hold button until solid appears, release button. Display will blink.
Blinking	-	Push and hold button until required symbol displays. <i>H A or P</i>
CONFIGURING ELECTRIC HEAT SECTIONS		
Solid	<i>H</i>	Release push button - control will cycle the indoor blower motor on to the selected heat speed and stage the electric heat relays on and off to automatically detect number of electric heat sections. Control will store the number of electric heat sections. Control will automatically exit <i>current active mode</i> .
INDOOR BLOWER TEST		
Solid	<i>A</i>	Release push button - control cycles indoor blower on for ten seconds at 70% of maximum air for selected capacity size unit. Control will automatically exit <i>current active mode</i> .
CONFIGURING UNIT SIZE CODES		
Single Character LED Display		Action
Solid	<i>P</i>	RELEASE push button - This mode allows the field to select a unit size code (number or letter) that matches the air handler model size and capacity. IMPORTANT — All field replacement controls may be manually configured to confirm air handler model size and capacity.
Blinking	<i>P</i>	<ol style="list-style-type: none"> When the correct Unit Sized Code is displayed, RELEASE push button. Selected code will flash for 10 second period. During ten second period, HOLD push button until code stops blinking (three seconds minimum). Air Handler Control will store code in memory and exit <i>current active mode</i>. LED display will go blank and then the Unit Size Code will display for 2 to 5 seconds. <p>NOTE - If ten second period expires, or push button is held less than 3 seconds, control will automatically exit <i>current active mode</i> and go into IDLE Mode without storing unit size code. If this occurs, then Unit Size Code configuring procedure must be repeated.</p>
ERROR CODE RECALL MODE (NOTE — CONTROL MUST BE IN IDLE MODE)		
Solid	<i>E</i>	To enter Error Code Recall option— PUSH and HOLD button until solid E appears, then RELEASE button. Control will display up to ten error codes stored in memory. If E000 is displayed, there are no stored error codes.
Solid	— — —	To exit Error Code Recall option — PUSH and HOLD button until solid three horizontal bars appear, then RELEASE button. <i>NOTE - Error codes are not cleared</i>
Solid	<i>C</i>	To clear error codes stored in memory, continue to HOLD push button while the three horizontal bars are displayed. Release push button when solid c is displayed. Display will blink.
Blinking	<i>C</i>	Push and hold for one (1) second, release button. Seven-segment will display 0000 and exit error recall mode.

Target CFM Tables

CBX40UHV-024 BLOWER PERFORMANCE

0 through 0.80 in. W.g. External Static Pressure Range

"AJUST" Jumper Setting	Jumper Speed Positions								
	"HEAT" Speed				"COOL" Speed				
	1	2	3	4	1	2	3	4	
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	715	855	1000	1130	465	690	900	1050	
NORM	670	770	900	1035	425	620	825	950	
-	580	700	800	930	385	560	735	850	

NOTES:

- The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
- First stage cooling air volume is 70% of COOL speed settings. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.
- Lennox Harmony III™ Zone Control applications - minimum blower speed if 250 cfm.

CBX40UHV-030 BLOWER PERFORMANCE

0 through 0.80 in. W.g. External Static Pressure Range

"AJUST" Jumper Setting	Jumper Speed Positions								
	"HEAT" Speed				"COOL" Speed				
	1	2	3	4	1	2	3	4	
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	800	935	1070	1210	660	880	1100	1320	
NORM	725	850	975	1100	600	800	1000	1200	
-	655	765	880	990	540	720	900	1080	

NOTES:

- The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
- First stage cooling air volume is 70% of COOL speed settings. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 250 cfm.
- Lennox Harmony III™ Zone Control applications - minimum blower speed if 250 cfm.

CBX40UHV-036 BLOWER PERFORMANCE

0 through 0.80 in. W.g. External Static Pressure Range

"AJUST" Jumper Setting	Jumper Speed Positions								
	"HEAT" Speed				"COOL" Speed				
	1	2	3	4	1	2	3	4	
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1230	1335	1445	1545	900	1225	1380	1545	
NORM	1120	1215	1315	1400	81	1125	1275	1400	
-	1010	1185	1200	1265	73	1000	1135	1265	

NOTES:

- The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
- First stage cooling air volume is 70% of COOL speed settings. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 380 cfm.
- Lennox Harmony III™ Zone Control applications - minimum blower speed if 380 cfm.

CBX40UHV-042 BLOWER PERFORMANCE

0 through 0.80 in. W.g. External Static Pressure Range

"AJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1100	1320	1540	1760	1100	1320	1540	1760
NORM	1000	1200	1400	1600	1000	1200	1400	1600
-	900	1080	1260	1440	900	1080	1260	1440

NOTES:

- The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
- First stage cooling air volume is 70% of COOL speed settings. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.
- Lennox Harmony III™ Zone Control applications - minimum blower speed if 450 cfm.

CBX40UHV-048 AND CBX40UHV-060 BLOWER PERFORMANCE

0 through 0.80 in. W.g. External Static Pressure Range

"AJUST" Jumper Setting	Jumper Speed Positions							
	"HEAT" Speed				"COOL" Speed			
	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1850	1960	2090	2150	1625	1820	2055	2145
NORM	1705	1800	1900	2005	1425	1625	1805	2005
-	1560	1625	1720	1770	1205	1375	1555	1725

NOTES:

- The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
- First stage cooling air volume is 70% of COOL speed settings. Continuous fan speed is approximately 28%, 38%, 70% and 100% (Jumper selectable) of the same second-stage COOL speed selected, minimum 450 cfm.
- Lennox Harmony III™ Zone Control applications - minimum blower speed if 450 cfm.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Mitsubishi

Model: PVA

13.4. Changing blower external static pressure

The air handler is equipped with an adjustable static pressure setting. The available settings are shown in the table below.

Model	Available ESP [in. WG]		
PVA-A12	0.30	0.50	0.80
PVA-A18	0.30	0.50	0.80
PVA-A24	0.30	0.50	0.80
PVA-A30	0.30	0.50	0.80
PVA-A36	0.30	0.50	0.80
PVA-A42	0.30	0.50	0.80*

*PVA-A42 in Downflow External Static pressure: 0.70

The air handler will be set to 0.50 ESP from the factory.

The air handler's static pressure can be changed through the mode/function settings in the controller. Please refer to the installation manual for the controller on how to change this option. Depending on the controller used, the mode/function will be either 08 for mode (PAR-31 & Simple MA) or 108 for function (MHK1). Please notice there are different settings when installing the air handler in the downflow position.

Vertical, Horizontal Left, Horizontal Right External Static Pressure Setting

External Static Pressure	Setting No. of Mode/Function 08/108	Setting No. of Mode/Function 10/110 (Factory Setting)
0.3 in. WG [75Pa]	1	1
0.5 in. WG [125Pa] (Factory Setting)	2	1
0.8 in. WG [200Pa]	3	1

Downflow External Static Pressure Setting

External Static Pressure	Setting No. of Mode/Function 08/108	Setting No. of Mode/Function 10/110
0.3 in. WG [75Pa]	1	2
0.5 in. WG [125Pa] (Factory Setting)	2	2
0.8 in. WG [200Pa]*	3	2

*PVA-A42 in Downflow External Static pressure: 0.70

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Mitsubishi

Model: SVZ-KP 12,18

13.4. Changing blower external static pressure

The air handler is equipped with an adjustable static pressure setting. The available settings are shown in the table below.

Model	Available ESP [in. WG]		
SVZ-KP12	0.30	0.50	0.80
SVZ-KP18			

The air handler will be set to 0.50 ESP from the factory.

The air handler's static pressure can be changed through the mode/function settings in the controller. Please refer to the installation manual for the controller on how to change this option. Depending on the controller used, the mode/function will be either 08 for mode (PAR-31 & Simple MA) or 108 for function (MHK1).

Vertical, Horizontal Left, Horizontal Right External Static Pressure Setting

External Static Pressure	Setting No. of Mode/Function 08/108	Setting No. of Mode/Function 10/110 (Factory Setting)
0.3 in. WG [75Pa]	1	1
0.5 in. WG [125Pa] (Factory Setting)	2	1
0.8 in. WG [200Pa]	3	1

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Mitsubishi

Model: SVZ-KP 12, 36, 24, 30, 36

13.4. Changing blower external static pressure

The air handler is equipped with an adjustable static pressure setting. The available settings are shown in the table below.

Model	Available ESP [in. WG]		
SVZ-KP12	0.30	0.50	0.80
SVZ-KP18			
SVZ-KP24			
SVZ-KP30			
SVZ-KP36			

The air handler will be set to 0.50 ESP from the factory.

The air handler's static pressure can be changed through the mode/function settings in the controller. Please refer to the installation manual for the controller on how to change this option. Depending on the controller used, the mode/function will be either 08 for mode (PAR-31 & Simple MA) or 108 for function (MHK1).

Vertical, Horizontal Left, Horizontal Right External Static Pressure Setting

External Static Pressure	Setting No. of Mode/Function 08/108	Setting No. of Mode/Function 10/110 (Factory Setting)
0.3 in. WG [75Pa]	1	1
0.5 in. WG [125Pa] (Factory Setting)	2	1
0.8 in. WG [200Pa]	3	1

Manufacturer: Payne

Model: 40MBAA

WIRELESS REMOTE CONTROLLER

1. A wireless remote controller is supplied for setting airflow. Please refer to the installation manual in HVAC Partners for setting airflow.
2. The Infrared receiver is located inside the control box of the indoor Air Handler and can be relocated if necessary.



Fig. 5 — Wireless Remote Controller

AIR FLOW DATA

Table 6 — Air Flow Data

SYSTEM SIZE		24K (208/230V)	36K (208/230V)	48K (208/230V)
Airflow** (CFM)	High	882	1,176	1,412
	Medium	765	1,000	1,294
	Low	588	824	1,176

Airflow values obtained at AHRI 210/240 rating conditions.

**Measured at rated static pressure:

24K: 0.1 in. WG (25pa)

36K: 0.15 in. WG (37pa)

48K: 0.2 in. WG (50pa)

SETTING STATIC PRESSURE AND AIRFLOW

The indoor fan coil units can be programmed to have different static pressures settings or airflows; the factory default setting is SP1. Follow the next steps to set the **static pressure** or **Automatic Airflow** using the Wireless Remote Controller according to the installation conditions.

- The external static pressure can be manually changed to the fan curves SP1, SP2, SP3, SP4.
- Choose the Automatic Airflow “AF” adjustment function to automatically identify the static pressure and regulate the airflow amount.

Follow these instructions to configure:

1. Ensure the test run is done with a dry coil. If the coil is not dry, run the unit for 2 hours in the **FAN ONLY** mode to dry the coil.
2. Check that both the power supply wiring and the duct installation have been completed. Check that the air vent is properly positioned. Check that the air filter is properly attached to the air return side passage of the unit.
3. If there is more than one air inlet and/or outlet, adjust the dampers so that the airflow rate of each air inlet and outlet conforms to the designed airflow rate. Ensure the unit is in **FAN ONLY** mode.

The wireless remote controller is required to setup the static pressure of the indoor air handler units.

NOTE: When a system is using the 24V interface built-in, the indoor unit’s fan speed defaults to **AUTO** with the indoor unit’s default logic.

The external static pressure should be selected using the wireless remote controller (RG57F3(B)/BGEFU1), included with the indoor unit, by pointing it toward the indoor unit’s Infrared Receiver typically located inside the control box.

- a. Before using the service functions of the remote, turn **OFF** the indoor unit with the remote.
- b. Turn off the power to the indoor and outdoor units for 3 minutes.
- c. Turn the power back on.
- d. Remove the batteries from the RG57 wireless remote controller and wait for the remote screen to clear or press any button and the screen clears.
- e. Reinstall the batteries.
- f. Within 30 seconds of replacing the batteries, simultaneously press **MODE** and **TIMER ON** for five (5) seconds. You are now in the **SERVICE FUNCTION** mode – and the remote display reads **F1**.
- g. Manual static pressure or Automatic Airflow adjustment selection:
 1. For manual static pressure selection, press the **DOWN** arrow in the center of the remote (labeled **TEMP**) to display **E9**. Press **MODE** to set the external static pressure/airflow rate in the range of 1-4 (airflow increases quickly). Press **TIMER ON** to confirm. The values on the remote controller (1,2,3,4) correlate directly to the static pressure curves SP1, SP2, SP3, SP4 (see “**FAN PERFORMANCES AT VARYING STATIC PRESSURES**” on page 13).
 2. If choosing the **AUTOMATIC AIRFLOW ADJUSTMENT** function, with **F1** in the remote display, press the **DOWN** arrow once and **d4** appears. Press **TIMER ON** to confirm. **AF** appears in the unit’s LED display. The system starts the fan for the airflow automatic adjustment. The **ON** indicator flashes when the fan runs during the **AUTOMATIC AIRFLOW ADJUSTMENT**. After 3 to 6 minutes, the system stops operating once the **AUTOMATIC AIRFLOW ADJUSTMENT** is complete.
- h. Remove the remote controller battery, and then re-insert the battery after the remote controller screen goes blank. The remote controller exits the **SERVICE FUNCTION** mode.

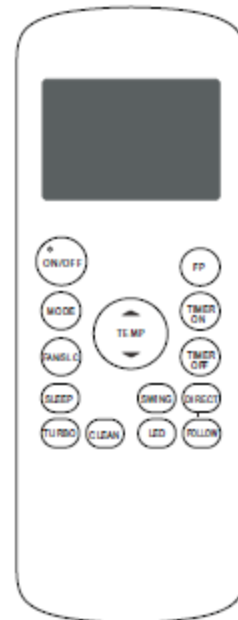


Fig. 8 — Remote Controller

FAN PERFORMANCES AT VARYING STATIC PRESSURES

Table 10 — Static Pressure at the Rated Point and Static Pressure Range

AHU	FAN COIL BLOWER PERFORMANCE CFM (DRY COIL WITHOUT FILTER OR ELECTRIC HEAT)										
	Model Number	Static Pressure	Speed	EXTERNAL STATIC PRESSURE (in.w.c.)							
				0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
24	SP1	High	1,076	975	853	675	502	200	/	/	/
		Medium	942	822	658	465	184	/	/	/	/
		Low	797	648	437	100	/	/	/	/	/
	SP2	High	1,250	1,175	1,075	965	815	650	475	200	/
		Medium	1,185	1,095	996	855	685	512	291	/	/
		Low	1,100	1,005	892	712	558	322	/	/	/
	SP3	High	1,490	1,415	1,334	1,250	1,156	1,028	880	750	600
		Medium	1,375	1,294	1,206	1,100	988	822	676	500	284
		Low	1,285	1,200	1,105	995	845	685	525	252	/
	SP4	High	1,825	1,756	1,670	1,592	1,515	1,450	1,360	1,250	1,120
		Medium	1,630	1,556	1,480	1,400	1,310	1,215	1,105	950	825
		Low	1,525	1,450	1,372	1,280	1,190	1,074	935	785	650
36	SP1	High	1,335	1,270	1,165	1,062	950	810	645	450	240
		Medium	1,185	1,100	990	845	685	520	335	/	/
		Low	1,020	915	775	600	405	/	/	/	/
	SP2	High	1,475	1,405	1,320	1,230	1,125	990	855	715	570
		Medium	1,340	1,260	1,172	1,055	920	775	630	460	275
		Low	1,205	1,115	1,011	870	715	555	380	/	/
	SP3	High	1,648	1,585	1,515	1,440	1,354	1,235	1,125	990	875
		Medium	1,510	1,440	1,362	1,275	1,168	1,040	910	780	645
		Low	1,385	1,305	1,215	1,115	986	855	727	580	421
	SP4	High	1,815	1,733	1,663	1,605	1,528	1,435	1,346	1,235	1,130
		Medium	1,668	1,606	1,539	1,465	1,380	1,275	1,178	1,050	941
		Low	1,558	1,481	1,406	1,350	1,219	1,100	986	875	748
48	SP1	High	1,611	1,530	1,462	1,375	1,276	1,170	1,052	925	831
		Medium	1,498	1,417	1,333	1,225	1,125	998	900	775	631
		Low	1,375	1,297	1,212	1,110	994	860	716	558	389
	SP2	High	1,774	1,701	1,642	1,570	1,504	1,420	1,313	1,202	1,081
		Medium	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
		Low	1,558	1,481	1,406	1,323	1,220	1,110	986	880	748
	SP3	High	1,868	1,805	1,736	1,675	1,604	1,532	1,433	1,330	1,211
		Medium	1,781	1,709	1,649	1,582	1,511	1,420	1,308	1,208	1,081
		Low	1,662	1,595	1,531	1,460	1,386	1,275	1,161	1,040	915
	SP4	High	2,024	1,974	1,919	1,850	1,795	1,726	1,652	1,560	1,466
		Medium	1,942	1,872	1,818	1,765	1,697	1,620	1,534	1,455	1,345
		Low	1,825	1,770	1,708	1,648	1,578	1,492	1,400	1,295	1,180

>300CFM <450CFM

NOTES:

- Airflow based upon dry coil at 230v without filter or electric heater.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 48 size must have supply static greater than 0.20 in wc.
- Airflow above 400 cfm/ton could result in condensate blowing off coil or splashing out of drain pan.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Payne

Model: FB4CNF-P

FB4C AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FB4C 018	Tap 5	767	739	702	669	620	565
	Tap 4	614	589	534	486	436	398
	Tap 3	701	660	616	581	537	499
	Tap 2	614	589	534	486	436	398
	Tap 1	410	350	304	261	228	203
FB4C 024 & 025	Tap 5	969	936	892	835	763	676
	Tap 4	826	795	766	743	706	660
	Tap 3	826	795	766	743	706	660
	Tap 2	701	660	616	581	537	499
	Tap 1	617	592	552	507	472	420
FB4C 030	Tap 5	1108	1090	1065	1034	1009	974
	Tap 4	1026	1000	969	938	899	865
	Tap 3	1026	1000	969	938	899	865
	Tap 2	909	873	842	799	762	724
	Tap 1	826	795	757	722	674	634
FB4C 036	Tap 5	1301	1276	1245	1218	1176	1121
	Tap 4	1227	1191	1169	1143	1105	1074
	Tap 3	1227	1191	1169	1143	1105	1074
	Tap 2	1087	1062	1030	1001	966	930
	Tap 1	1026	1000	969	938	899	865
FB4C 042	Tap 5	1560	1544	1507	1464	1424	1358
	Tap 4	1419	1397	1358	1320	1279	1239
	Tap 3	1419	1397	1358	1320	1279	1239
	Tap 2	1249	1220	1184	1142	1093	1052
	Tap 1	1242	1205	1158	1110	1069	1026
FB4C 048	Tap 5	1743	1712	1679	1642	1610	1574
	Tap 4	1669	1634	1599	1564	1531	1499
	Tap 3	1669	1634	1599	1564	1531	1499
	Tap 2	1452	1413	1377	1339	1308	1271
	Tap 1	1300	1256	1221	1182	1142	1101
FB4C 060	Tap 5	1897	1867	1836	1808	1774	1736
	Tap 4	1817	1785	1757	1724	1693	1655
	Tap 3	1817	1785	1757	1724	1693	1655
	Tap 2	1657	1621	1589	1557	1518	1474
	Tap 1	1443	1412	1377	1332	1286	1243
FB4C 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

- Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 036, 3 element heater sizes 042 through 061). For FB4C models, airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in. wc. Horizontal applications of 042 - 061 sizes must have supply static greater than 0.20 in. wc.
- Airflow above 400 cfm/ton on 048-061 size could result in condensate blowing off coil or splashing out of drain pan.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

FB4C Unit Size	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)															
		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13			
		TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	
018	525	72 / 22	41	20	0.00	37	17	0.00	32	15	0.00	27	13	0.02	21	11	0.03
		67 / 19	33	20	0.03	29	18	0.03	24	16	0.03	19	13	0.03	13	11	0.04
		62 / 17	26	20	0.03	22	18	0.03	18	16	0.04	14	14	0.10	11	11	0.26
	600	72 / 22	45	22	0.00	40	19	0.00	35	17	0.01	30	15	0.03	23	12	0.04
		67 / 19	37	22	0.04	32	20	0.04	27	17	0.04	21	15	0.04	15	12	0.05
		62 / 17	29	22	0.04	24	20	0.04	19	18	0.05	15	15	0.12	13	13	0.28
	675	72 / 22	49	24	0.00	44	21	0.00	38	19	0.03	32	16	0.04	25	13	0.05
		67 / 19	40	24	0.05	35	22	0.05	29	19	0.05	23	16	0.05	16	14	0.06
		62 / 17	32	25	0.05	27	22	0.05	21	19	0.06	17	17	0.14	14	14	0.29
024	700	72 / 22	43	22	0.00	38	20	0.00	33	17	0.03	28	15	0.04	22	12	0.05
		67 / 19	35	23	0.05	30	20	0.05	25	18	0.05	20	15	0.05	14	13	0.06
		62 / 17	28	23	0.06	23	21	0.06	18	18	0.06	15	15	0.14	12	12	0.29
	800	72 / 22	47	24	0.00	42	22	0.01	36	19	0.04	31	17	0.06	24	14	0.06
		67 / 19	38	25	0.06	33	22	0.06	28	20	0.07	22	17	0.07	15	14	0.08
		62 / 17	30	26	0.07	25	23	0.07	20	20	0.08	16	16	0.17	13	13	0.31
	900	72 / 22	51	26	0.00	45	24	0.03	40	21	0.06	33	18	0.07	26	15	0.07
		67 / 19	41	27	0.07	36	25	0.08	30	22	0.08	24	19	0.08	17	16	0.09
		62 / 17	33	28	0.08	28	25	0.08	22	22	0.09	18	18	0.19	15	15	0.33
025	700	72 / 22	53	26	0.00	47	23	0.00	41	21	0.00	35	18	0.02	27	15	0.03
		67 / 19	43	27	0.03	37	24	0.03	31	21	0.03	25	18	0.03	17	15	0.04
		62 / 17	34	27	0.03	28	24	0.03	23	21	0.04	18	18	0.10	14	14	0.26
	800	72 / 22	58	29	0.00	52	26	0.00	46	23	0.01	38	20	0.03	30	16	0.04
		67 / 19	47	30	0.04	41	26	0.04	35	23	0.04	27	20	0.04	19	17	0.05
		62 / 17	38	30	0.04	32	27	0.04	25	24	0.05	20	20	0.12	16	16	0.28
	900	72 / 22	63	32	0.00	57	28	0.00	50	25	0.03	41	21	0.04	33	18	0.05
		67 / 19	52	32	0.05	45	29	0.05	38	25	0.05	30	22	0.05	21	18	0.06
		62 / 17	41	33	0.05	34	29	0.05	27	26	0.06	22	22	0.14	18	18	0.29
030	875	72 / 22	62	31	0.00	56	28	0.00	49	24	0.02	41	21	0.04	32	17	0.04
		67 / 19	51	32	0.04	44	28	0.05	37	25	0.05	29	21	0.05	21	18	0.05
		62 / 17	40	32	0.05	34	29	0.05	27	25	0.06	21	21	0.13	18	18	0.28
	1000	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	19	0.06
		67 / 19	56	35	0.06	49	31	0.06	41	28	0.06	32	24	0.06	22	20	0.07
		62 / 17	44	36	0.06	37	32	0.06	29	28	0.07	24	24	0.16	20	20	0.30
	1125	72 / 22	74	37	0.00	66	33	0.02	58	29	0.05	48	25	0.06	38	21	0.07
		67 / 19	60	38	0.07	53	34	0.07	44	30	0.07	35	26	0.07	24	22	0.08
		62 / 17	48	39	0.07	40	35	0.07	32	31	0.09	26	26	0.18	21	21	0.32
036	1050	72 / 22	68	34	0.00	61	31	0.00	53	27	0.04	45	23	0.05	35	20	0.06
		67 / 19	56	36	0.06	49	32	0.06	41	28	0.06	32	24	0.07	22	20	0.07
		62 / 17	44	36	0.06	37	33	0.07	30	29	0.08	24	24	0.17	20	20	0.31
	1200	72 / 22	75	38	0.00	67	34	0.03	58	30	0.06	49	26	0.07	38	22	0.07
		67 / 19	61	39	0.07	53	35	0.08	45	31	0.08	35	27	0.08	25	22	0.09
		62 / 17	49	40	0.08	41	36	0.08	32	32	0.09	26	26	0.19	22	22	0.33
	1350	72 / 22	81	41	0.00	72	37	0.05	63	32	0.07	53	28	0.08	41	23	0.09
		67 / 19	66	43	0.08	58	38	0.09	48	34	0.09	38	29	0.09	27	25	0.10
		62 / 17	53	44	0.09	44	40	0.09	35	35	0.11	29	29	0.22	24	24	0.35
042	1225	72 / 22	89	44	0.00	80	40	0.00	70	35	0.02	58	30	0.03	46	25	0.04
		67 / 19	73	45	0.04	63	41	0.04	53	36	0.04	42	31	0.04	29	25	0.05
		62 / 17	58	46	0.04	48	41	0.04	38	36	0.05	30	30	0.12	25	25	0.28
	1400	72 / 22	98	49	0.00	88	44	0.00	77	39	0.03	64	33	0.04	50	28	0.05
		67 / 19	80	50	0.05	70	45	0.05	58	39	0.05	46	34	0.05	32	28	0.06
		62 / 17	64	51	0.06	53	46	0.06	42	40	0.06	34	34	0.14	28	28	0.29
	1575	72 / 22	106	53	0.00	95	48	0.00	83	42	0.04	69	36	0.05	54	30	0.06
		67 / 19	87	55	0.06	76	49	0.06	63	43	0.06	50	37	0.07	35	31	0.07
			62 / 17	69	56	0.07	58	50	0.07	46	44	0.08	37	37	0.17	31	31

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT (Continued)

FB4C Unit Size	INDOOR COIL AIR	SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)															
		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13			
		TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	
048	1400	72 / 22	88	46	0.00	79	42	0.00	69	37	0.03	58	31	0.04	45	26	0.05
		67 / 19	72	48	0.05	63	43	0.05	52	37	0.05	41	32	0.05	29	27	0.06
		62 / 17	57	49	0.06	48	43	0.06	38	38	0.06	30	30	0.14	25	25	0.29
	1600	72 / 22	97	51	0.00	87	46	0.01	75	40	0.04	63	35	0.06	49	29	0.06
		67 / 19	79	52	0.06	69	47	0.06	57	41	0.07	45	36	0.07	32	30	0.08
		62 / 17	63	54	0.07	53	48	0.07	42	42	0.08	34	34	0.17	28	28	0.31
	1800	72 / 22	105	55	0.00	94	50	0.03	82	44	0.06	68	38	0.07	54	31	0.07
		67 / 19	86	57	0.07	75	51	0.08	62	45	0.08	49	39	0.08	34	33	0.09
		62 / 17	68	59	0.08	57	53	0.08	45	47	0.09	37	37	0.19	30	30	0.33
060	1600	72 / 22	106	54	0.00	95	49	0.00	82	43	0.01	69	37	0.03	54	31	0.04
		67 / 19	86	56	0.04	75	50	0.04	63	44	0.04	49	37	0.04	35	31	0.05
		62 / 17	68	56	0.04	57	50	0.04	45	44	0.05	36	36	0.12	29	29	0.28
	1750	72 / 22	113	58	0.00	101	52	0.00	88	46	0.02	74	39	0.04	58	33	0.04
		67 / 19	92	59	0.04	80	53	0.05	67	47	0.05	53	40	0.05	37	33	0.05
		62 / 17	73	61	0.05	61	54	0.05	49	48	0.06	39	39	0.13	32	32	0.28
	2000	72 / 22	124	64	0.00	111	57	0.00	97	50	0.04	81	43	0.05	63	36	0.06
		67 / 19	101	66	0.06	88	59	0.06	74	52	0.06	58	44	0.06	41	37	0.07
		62 / 17	80	67	0.06	67	60	0.06	53	53	0.07	43	43	0.16	35	35	0.30
061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

CFM - Cubic Ft per Minute EWB - Entering Wet Bulb °F (°C) LWB - Leaving Wet Bulb °F (°C) TC - Gross Cooling Capacity 1000 Bnh
 SHC - Gross Sensible Capacity 1000 Bnh BF - Bypass Factor MBH - 1000 Bnh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{wb})
 $h_{wb} = \frac{\text{total capacity (Bnh)}}{4.5 \times \text{CFM}}$
 where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychrometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

**FB4C AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc)
AT INDICATED AIRFLOW (DRY TO WET COIL)**

UNIT SIZE	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
018	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
024	0.034	0.049	0.063	0.076	0.089	—	—	—	—	—	—	—	—	—	—	—
025	0.015	0.026	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
030	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
036	—	—	—	—	—	0.070	0.080	0.090	0.099	—	—	—	—	—	—	—
042	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
048	—	—	—	—	—	—	—	—	—	0.063	0.070	0.076	0.083	0.090	—	—
060	—	—	—	—	—	—	—	—	—	—	—	0.049	0.054	0.059	0.065	0.070
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

FB4C 018 - 036			FB4C 042 - 061		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 018 through 036 size units and 15-kW heaters (3 elements) in the 042 through 061 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

MINIMUM CFM AND MOTOR SPEED SELECTION

FB4C	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
018	525	525	525	—	600	—	—	—	—	—
024 & 025	700	700	700	—	700	775	—	—	—	—
030	—	875	875	—	875	875	—	1060	—	—
036	—	1050	970	970	970	920	—	1040	—	—
042	—	—	1225	1225	1225	1225	1225	1225	—	—
048	—	—	1400	1400	1400	1400	1400	1400	1400	1400
060 & 061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

Speed Tap 4 (white wire) is used for electric heat only. White wire must remain on tap 4.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Payne

Model: FE4A

AIRFLOW DELIVERY — COOLING, HEATING, ELECTRIC HEATING MODES

The FE4 and FE5A fan coils will provide airflow at a rate that is requested by the Integrated System User Interface during air conditioning or heat pump heating (without electric heat) modes. The nominal airflow for both heating and cooling modes is 350 cfm/ton nominal size of the outdoor unit installed. The airflow actually requested by the User Interface is modified by its internal algorithms for zoning, comfort or efficiency concerns. Refer to the

documentation for the User Interface for more information on how the User Interface controls the fan coil. Safe operation of electric heaters requires airflow delivery at or above the minimum CFM for electric heater application listed in the chart below. The fan coil will adjust its airflow delivery to maintain safe airflow as operating mode and staging conditions require.

FE4A/FE5A FAN COIL AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODELS

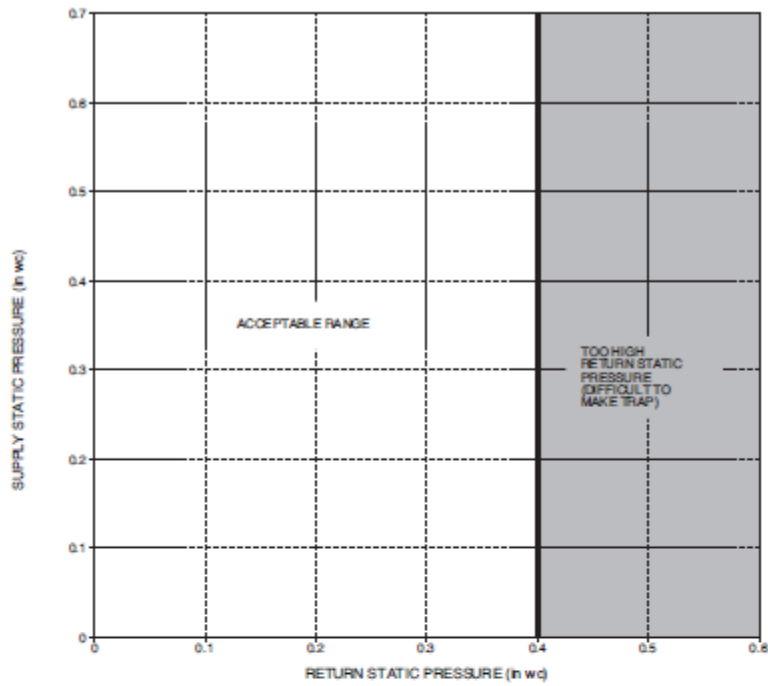
MODEL FE4A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
002	EMERGENCY	625	625	675	775	950	—	—
	18,000	625	625	675	—	—	—	—
	24,000	650	725	775	900	—	—	—
	30,000	800	875	875	925	1125	—	—
	36,000	975	975	975	1025	1125	—	—
003	EMERGENCY	675	700	775	850	1050	—	—
	24,000	675	875	875	1100	1150	—	—
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1350	—	—
005	EMERGENCY	675	700	775	850	1050	1400	1425
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1250	—	—
	48,000	1305	1305	1305	1305	1350	1500	1600
006	EMERGENCY	1050	1050	1050	1050	1125	1750	1750
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—
	48,000	1300	1300	1300	1350	1500	1750	1750
	60,000	1625	1625	1625	1625	1750	1750	1750
MODEL FE5A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
004	EMERGENCY	675	775	775	900	1125	—	—
	24,000	975	975	975	—	—	—	—
	30,000	1050	1050	1100	1125	—	—	—
	36,000	1050	1050	1100	1350	1350	—	—
	42,000	1125	1125	1150	1350	1350	—	—

Note 1: Emergency – Air conditioner with electric heater application, or emergency heat.

Note 2: These airflows are minimum airflows as UL listed.

Note 3: Dashed entry indicates that the heater/fan coil/outdoor unit combination is not approved. Do not apply.

ACCEPTABLE DUCT CONDITIONS



For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

MINIMUM RPM TABLE

MODEL	SYSTEM SIZES	CFM RANGE	MIN RPM
FE4ANF02	018, 024, 030, 036	150 – 1200	300
FE4AN(B,F)03	024, 030, 036, 042	200 – 1400	295
FE4AN(B,F)06	030, 036, 042, 048	250 – 1600	275
FE4ANB06	036, 042, 048, 060	500 – 2000	275
FE5ANB04	024, 030, 036, 042	500 – 1400	275

MAXIMUM STATIC TABLE

MODEL	AIRFLOW DELIVERY	AVAILABLE STATIC PRESSURE
FE4ANF02	625 CFM	1.00 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	0.80 in wc
	1200 CFM	0.60 in wc
FE4AN(B,F)03	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	0.80 in wc
FE4AN(B,F)06	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE4ANB06	1600 CFM	0.50 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
FE5ANB04	1750 CFM	1.00 in wc
	2000 CFM	0.60 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
FE5ANB04	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc

GROSS COOLING CAPACITIES (MBTUH)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
		35 / 2			40 / 4			45 / 7			50 / 10			56 / 13		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FE4ANR002																
500	72/22	40.19	19.65	0.00	36.23	17.59	0.00	31.86	15.48	0.00	27.00	13.31	0.00	21.65	11.11	0.00
	67/19	32.99	19.92	0.01	28.96	17.79	0.01	24.52	15.62	0.01	19.64	13.40	0.01	14.29	11.17	0.01
	62/17	26.44	20.11	0.01	22.36	17.93	0.01	17.93	15.73	0.01	13.56	13.56	0.03	11.28	11.28	0.19
650	72/22	49.76	24.23	0.00	44.85	21.76	0.00	39.40	19.20	0.00	33.36	16.55	0.01	26.66	13.83	0.01
	67/19	40.90	24.80	0.01	35.90	22.22	0.01	30.37	19.55	0.02	24.27	16.82	0.02	17.58	14.06	0.02
	62/17	32.84	25.24	0.02	27.75	22.56	0.02	22.25	19.85	0.02	17.13	17.13	0.06	14.25	14.25	0.21
875	72/22	61.99	30.08	0.00	55.87	27.15	0.00	49.04	24.04	0.01	41.48	20.80	0.02	33.10	17.46	0.02
	67/19	51.08	31.23	0.03	44.83	28.09	0.03	37.91	24.84	0.03	30.23	21.47	0.03	21.83	18.03	0.03
	62/17	41.11	32.14	0.03	34.76	28.88	0.03	27.91	25.53	0.04	22.04	22.04	0.10	18.33	18.33	0.25
1000	72/22	67.83	32.91	0.00	61.10	29.78	0.00	53.66	26.40	0.02	45.36	22.89	0.03	36.17	19.27	0.03
	67/19	55.96	34.39	0.04	49.12	31.01	0.04	41.53	27.48	0.04	33.11	23.83	0.04	23.88	20.06	0.04
	62/17	45.09	35.62	0.04	38.13	32.08	0.04	30.69	28.43	0.06	24.54	24.54	0.12	20.40	20.40	0.27
1250	72/22	77.77	37.84	0.00	70.13	34.30	0.03	61.59	30.55	0.06	52.04	26.60	0.06	41.42	22.50	0.05
	67/19	64.36	40.02	0.06	56.52	36.24	0.06	47.77	32.27	0.06	38.04	28.12	0.06	27.46	23.81	0.07
	62/17	51.98	41.92	0.06	44.00	37.93	0.06	35.61	33.77	0.08	29.12	29.12	0.16	24.20	24.20	0.30
FE4ANR003																
600	72/22	43.01	20.98	0.00	38.69	18.78	0.00	33.92	16.51	0.00	28.64	14.18	0.00	22.85	11.81	0.01
	67/19	35.27	21.34	0.01	30.88	19.04	0.01	26.07	16.71	0.01	20.79	14.34	0.01	15.03	11.95	0.01
	62/17	28.24	21.59	0.01	23.81	19.25	0.01	19.05	16.90	0.02	14.56	14.56	0.05	12.11	12.11	0.21
800	72/22	53.83	26.15	0.00	48.40	23.49	0.00	42.36	20.71	0.00	36.72	17.83	0.02	28.38	14.89	0.02
	67/19	44.23	26.92	0.02	38.71	24.10	0.02	32.61	21.20	0.03	25.91	18.24	0.03	18.65	15.26	0.03
	62/17	35.47	27.49	0.03	29.87	24.58	0.03	23.89	21.65	0.03	18.67	18.67	0.09	15.51	15.51	0.24
1000	72/22	63.07	30.80	0.00	56.66	27.57	0.00	49.58	24.36	0.02	41.76	21.04	0.03	33.10	17.62	0.03
	67/19	51.91	31.82	0.04	45.41	28.58	0.04	38.24	25.24	0.04	30.31	21.78	0.04	21.76	18.29	0.05
	62/17	41.71	32.80	0.04	35.12	29.43	0.04	28.13	26.00	0.06	22.41	22.41	0.12	18.60	18.60	0.27
1200	72/22	71.01	34.48	0.00	63.77	31.12	0.02	55.79	27.57	0.04	46.96	23.88	0.05	37.18	20.08	0.05
	67/19	58.54	36.17	0.05	51.21	32.59	0.05	43.10	28.87	0.06	34.13	25.02	0.06	24.47	21.08	0.06
	62/17	47.12	37.60	0.06	39.70	33.86	0.06	31.89	30.00	0.07	25.83	25.83	0.15	21.43	21.43	0.29
1400	72/22	77.96	37.96	0.01	70.07	34.31	0.04	61.29	30.47	0.06	51.54	26.47	0.06	40.78	22.33	0.07
	67/19	64.44	40.15	0.07	56.37	36.28	0.07	47.43	32.24	0.07	37.54	28.04	0.07	26.89	23.69	0.08
	62/17	51.95	42.08	0.07	43.78	37.99	0.08	35.30	33.73	0.09	28.95	28.95	0.19	24.01	24.01	0.32
FE5ANR004																
600	72/22	40.42	19.84	0.00	36.59	17.80	0.00	32.35	15.70	0.00	27.64	13.54	0.00	22.39	11.33	0.00
	67/19	33.22	20.00	0.00	29.31	17.90	0.00	24.99	15.74	0.00	20.19	13.53	0.00	14.87	11.27	0.00
	62/17	26.67	20.11	0.00	22.69	17.96	0.00	18.31	15.75	0.00	13.60	13.54	0.00	11.29	11.29	0.17
800	72/22	52.07	25.46	0.00	47.19	22.92	0.00	41.75	20.28	0.00	35.66	17.53	0.00	28.84	14.70	0.00
	67/19	42.88	25.89	0.00	37.88	23.24	0.00	32.31	20.49	0.00	26.10	17.66	0.00	19.18	14.75	0.00
	62/17	34.51	26.21	0.00	29.39	23.46	0.00	23.73	20.64	0.00	17.81	17.81	0.01	14.85	14.85	0.18
1000	72/22	62.54	30.48	0.00	56.75	27.53	0.00	50.25	24.45	0.00	42.94	21.21	0.00	34.73	17.84	0.00
	67/19	51.63	31.28	0.00	45.66	28.17	0.01	38.98	24.93	0.01	31.49	21.55	0.01	23.12	18.06	0.01
	62/17	41.66	31.91	0.01	35.51	28.66	0.01	28.71	25.30	0.01	21.89	21.89	0.03	18.26	18.26	0.19
1200	72/22	71.89	34.94	0.00	65.33	31.70	0.00	57.89	28.24	0.00	49.50	24.59	0.00	40.06	20.76	0.00
	67/19	59.49	36.20	0.01	52.68	32.73	0.01	45.02	29.06	0.01	36.39	25.22	0.01	26.71	21.21	0.01
	62/17	48.10	37.22	0.01	41.07	33.55	0.01	33.27	29.72	0.01	25.77	25.77	0.06	21.51	21.51	0.20
1400	72/22	80.24	38.94	0.00	73.00	35.45	0.00	64.73	31.69	0.00	56.41	27.69	0.01	44.86	23.46	0.01
	67/19	66.53	40.71	0.01	58.99	36.93	0.01	50.47	32.91	0.02	40.84	28.66	0.02	29.98	24.20	0.02
	62/17	53.91	42.17	0.02	46.10	38.14	0.02	37.43	33.92	0.02	29.46	29.46	0.07	24.60	24.60	0.22
FE4ANR005																
750	72/22	57.24	28.01	0.00	51.64	25.08	0.00	45.46	22.08	0.00	38.59	19.00	0.00	30.99	15.85	0.00
	67/19	46.98	28.35	0.00	41.29	25.33	0.00	35.01	22.24	0.00	28.09	19.09	0.00	20.47	15.90	0.01
	62/17	37.67	28.59	0.01	31.89	25.50	0.01	25.61	22.37	0.01	19.28	19.28	0.02	16.05	16.05	0.19
950	72/22	69.68	33.97	0.00	62.89	30.52	0.00	55.32	26.92	0.00	48.89	23.21	0.00	37.57	19.40	0.00
	67/19	57.29	34.68	0.01	50.33	31.06	0.01	42.64	27.33	0.01	34.14	23.51	0.01	24.80	19.63	0.01
	62/17	45.99	35.21	0.01	38.92	31.47	0.01	31.24	27.68	0.01	23.90	23.90	0.04	19.89	19.89	0.20
1150	72/22	80.80	39.28	0.00	72.96	35.40	0.00	64.17	31.32	0.00	54.37	27.06	0.01	43.48	22.66	0.01
	67/19	66.56	40.46	0.02	58.50	36.34	0.02	49.54	32.05	0.02	39.60	27.64	0.02	28.70	23.15	0.02
	62/17	53.51	41.36	0.02	45.29	37.07	0.02	36.38	32.70	0.02	26.26	26.26	0.07	23.51	23.51	0.22
1500	72/22	97.47	47.29	0.00	88.05	42.83	0.00	77.49	38.05	0.01	66.68	33.04	0.02	52.41	27.78	0.02
	67/19	80.52	49.40	0.03	70.85	44.58	0.03	60.01	39.53	0.03	47.89	34.25	0.03	34.64	28.83	0.04
	62/17	64.96	51.12	0.03	55.02	46.04	0.03	44.30	40.80	0.04	35.27	35.27	0.10	29.34	29.34	0.25
1700	72/22	106.61	51.26	0.00	95.43	46.52	0.01	84.03	41.43	0.03	71.21	36.06	0.03	56.82	30.42	0.03
	67/19	87.38	53.92	0.04	76.93	48.80	0.04	65.20	43.40	0.04	52.01	37.70	0.04	37.60	31.83	0.05
	62/17	70.60	56.17	0.04	59.87	50.74	0.04	48.32	45.08	0.05	38.96	38.96	0.13	32.40	32.40	0.27
FE4ANR006																
1050	72/22	76.01	37.07	0.00	68.82	33.39	0.00	60.76	29.56	0.00	51.72	25.55	0.00	41.64	21.42	0.00
	67/19	62.63	37.91	0.01	55.22	34.04	0.01	46.97	30.03	0.01	37.78	25.89	0.01	27.60	21.64	0.01
	62/17	50.40	38.54	0.01	42.81	34.53	0.01	34.49	30.41	0.01	26.28	26.28	0.03	21.90	21.90	0.19
1300	72/22	89.86	43.58	0.00	81.26	39.43	0.00	71.77	35.02	0.00	61.13	30.39	0.00	49.17	25.56	0.01
	67/19	74.04	45.04	0.01	65.36	40.60	0.01	55.62	35.94	0.01	44.72	31.09	0.01	32.62	26.09	0.01

CFM – Cubic Ft per Minute EWB – Entering Wet Bulb (°F / °C)
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor

LWB – Leaving Wet Bulb (°F / °C) TC – Gross Cooling Capacity 1000 Btuh
 MBH – 1000 Btuh

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

Leaving wb = wb corresponding to enthalpy of air leaving coil

$$h_{wb} = h_{wb} - \frac{\text{Total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

where h_{wb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.

3. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	Correction Factor					
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.
 Correction Factor = 1.09 x (1 - BF) x (db - 80)

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER kW	ELEMENTS	STATIC PRESSURE CORRECTION (in wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	- .02	- .03
20	4	- .04	- .06
18, 24, 30	6	- .06	- .10

The airflow performance table was developed using fan coils with 10kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

MODEL	CFM									
FE4A	400	600	800	1000	1200	1400	1600	1800	2000	
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—	—
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—	—
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—	—
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133	—
MODEL	CFM									
FE5A	400	600	800	1000	1200	1400	1600	1800	2000	
004	—	0.015	0.026	0.038	0.053	0.070	—	—	—	—

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc) AT INDICATED AIRFLOW (DRY TO WET COIL)

MODEL	CFM										
FE4A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048
MODEL	CFM										
FE5A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
004	0.004	0.005	0.007	0.009	0.011	0.013	0.016	0.018	0.020	0.023	—

NOTE: Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Payne

Model: FV4C

PERFORMANCE DATA

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Nominal A/C Cooling	A/C Cooling Dehumidity	High Speed		Low Speed		Lo	Med	High
				Nominal A/C Cooling	A/C Cooling Dehumidity	Nominal A/C Cooling	A/C Cooling Dehumidity			
002	018	525	420	—	—	—	—	350	420	525
	024	700	560	700	560	560	450	350	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
003	024	700	560	700	560	560	450	415	560	700
	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
005	030	875	700	—	—	—	—	440	700	875
	036	1050	840	1050	840	840	670	525	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
006	036	1050	840	1050	840	840	670	540	840	1050
	042	1225	980	—	—	—	—	610	980	1225
	048	1400	1120	1400	1120	1120	895	700	1120	1400
	060	1750	1400	1750	1400	1400	1120	875	1400	1750

* Consult AHJ ratings before matching outdoor unit with FV4C fan coil.

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10KW heater and filter installed.
4. Airflows shown are at standard air conditions.

FV4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

OPERATING MODE										
UNIT SIZE	OUTDOOR UNIT CAPACITY	SINGLE—SPEED APPLICATION		TWO—SPEED APPLICATION				FAN ONLY		
		Heat Pump Comfort	Heat Pump Efficiency	High Speed		Low Speed		Lo	Med	High
				Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency			
002	018	470	525	—	—	—	—	350	380	470
	024	630	700	630	700	505	560	350	505	630
	030	785	875	—	—	—	—	390	630	785
	036	945	1050	945	1050	755	840	470	755	945
003	024	630	700	630	700	415	560	415	505	630
	030	785	875	—	—	—	—	415	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
005	030	785	875	—	—	—	—	425	630	785
	036	945	1050	945	1050	755	840	470	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
006	036	945	1050	945	1050	755	840	540	755	945
	042	1100	1225	—	—	—	—	550	880	1100
	048	1260	1400	1260	1400	1010	1120	630	1010	1260
	060	1575	1750	1575	1750	1260	1400	785	1260	1575

NOTES:

1. The above airflows result with the AC, HP CFM ADJUST select jumper set on NOM.
2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
3. Dry coil at 230 volts and with 10KW heater and filter installed.
4. Airflows shown are at standard air conditions.

PERFORMANCE DATA (cont)

AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODES

FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER KW RANGE											
		0-5			0-10			0-15			0-20		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
002	18,000	625	625	625	675	675	—	—	—	—	—	—	—
	24,000	650	725	835	—	725	835	875	875	875	—	—	—
	30,000	815	905	1040	—	905	1040	900	900	1040	1100	1100	1100
	36,000	980	1085	1250	980	1085	1250	980	1085	1250	1100	1100	1250
003	24,000	675	725	835	875	875	—	—	—	—	—	—	—
	30,000	815	905	1040	875	905	1040	1100	1100	1100	—	—	—
	36,000	980	1085	1250	980	1085	1250	1100	1100	1250	1225	1225	1250
	42,000	1140	1270	1460	1140	1270	1460	1140	1270	1460	1225	1270	1460
FAN UNIT SIZE	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER KW RANGE											
		0-10			0-15			0-20			0-30		
		Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High
005	30,000	975	975	1040	1100	1100	1100	—	—	—	—	—	—
	36,000	980	1085	1250	1100	1100	1250	1250	1250	1250	—	—	—
	42,000	1140	1270	1460	1140	1270	1460	1250	1270	1460	—	—	—
	48,000	1305	1450	1665	1305	1450	1665	1305	1450	1665	1500	1500	1665
006	36,000	1100	1100	1250	1350	1350	1350	—	—	—	—	—	—
	42,000	1140	1270	1460	1350	1350	1460	1525	1525	1525	—	—	—
	48,000	1305	1450	1665	1350	1450	1665	1525	1525	1665	1750	1750	1750
	60,000	1630	1810	2085	1630	1810	2085	1630	1810	2085	1750	1810	2085

NOTE: Lo, NOM, and HI refer to AC, HP CFM ADJUST selection.
 — Airflow not recommended for heater/system size.

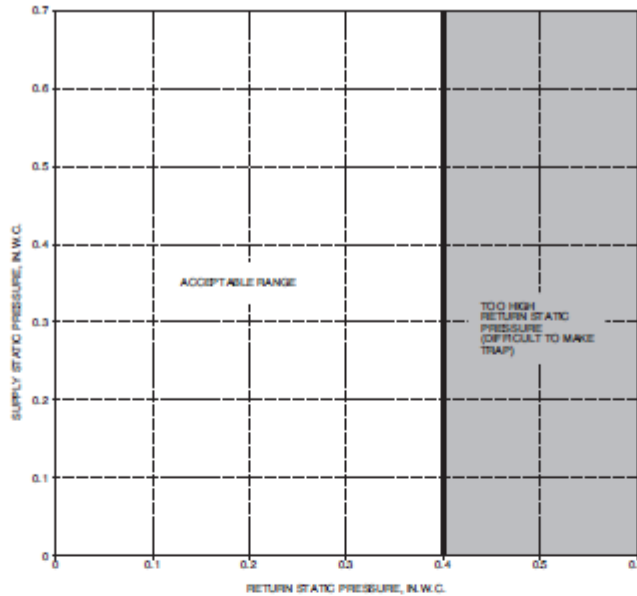
MINIMUM CFM FOR ELECTRIC HEATER APPLICATION

FAN COIL UNIT	HEAT PUMP UNIT SIZE	CFM				
		HEATER SIZE kW				
		5	8, 9, 10	15	18, 20	24, 30
002	Heater Only	625	625	725	875	—
	018	625	625	—	—	—
	024	650	725	875	—	—
	030	800	875	875	1040	—
	036	970	970	970	1040	—
003	Heater Only	675	700	1050	1050	—
	024	675	875	—	—	—
	030	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
005	Heater Only	675	700	1050	1050	1400
	018	800	875	1100	—	—
	036	975	975	1100	1225	—
	042	1125	1125	1125	1225	—
	048	1305	1305	1305	1305	1400
006	Heater Only	1050	1050	1050	1050	1750
	018	1100	1100	1350	1350	—
	042	1125	1125	1350	1350	—
	048	1300	1300	1350	1465	1750
	060	1625	1625	1625	1750	1750

NOTES:

1. Heater Only—Air conditioner with electric heater application.
2. These airflows are minimum acceptable airflows as UL listed. Actual airflow delivered will be per airflow delivery chart for Electric Heating Modes.

PERFORMANCE DATA (cont)



A02296

ACCEPTABLE DUCT CONDITIONS

For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

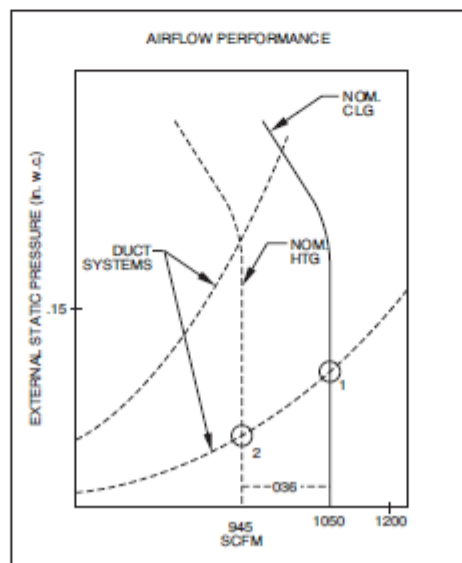
The airflow performance charts for the FV4C fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

The dotted curved lines are static pressure drop characteristics for several fixed-duct systems. These lines can be used to predict the

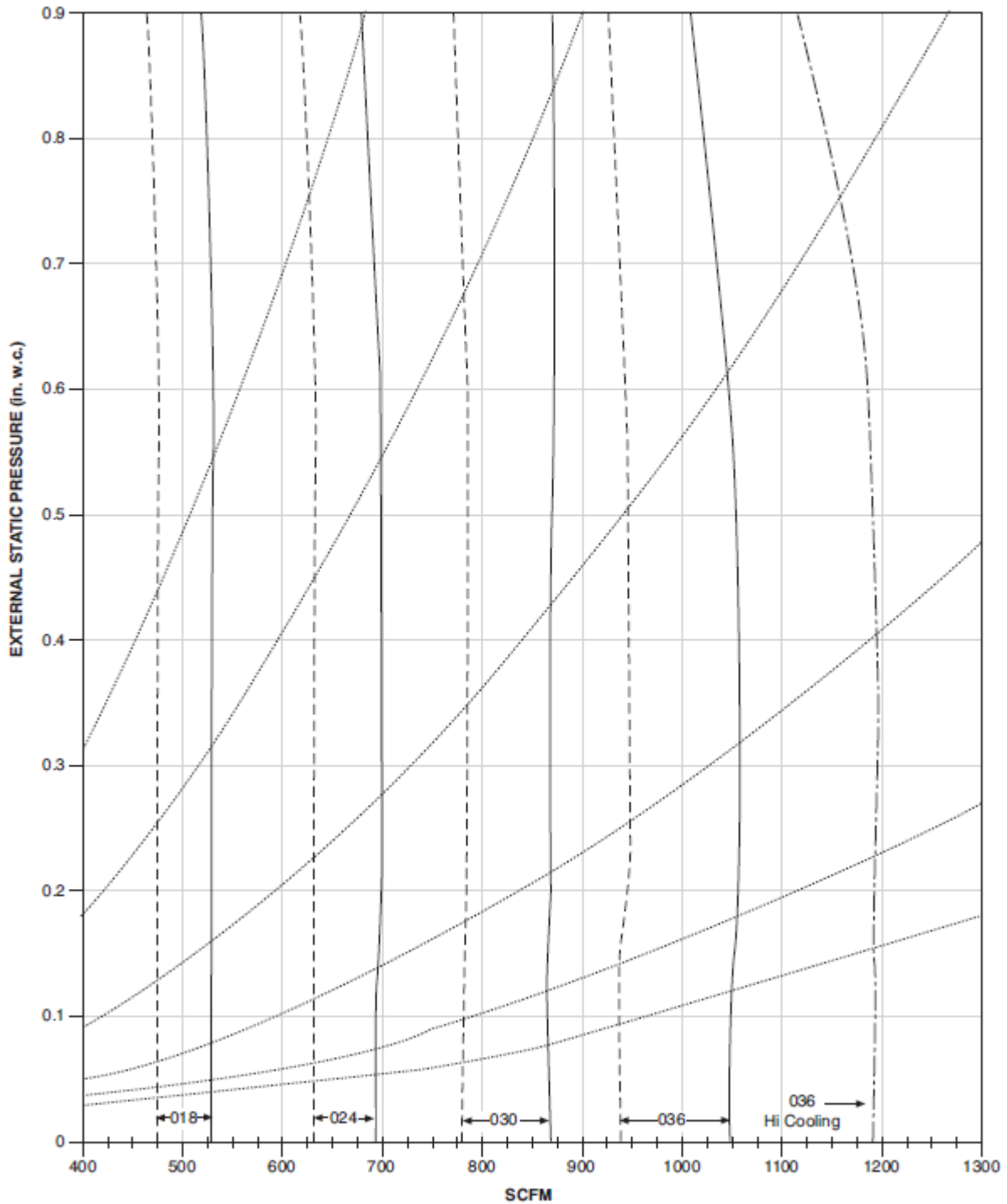
system static pressure drop at any airflow given the actual drop at 1 known point.

For example, a duct system is designed for 0.15 in. water column (in. w.c.) drop at 1200 CFM. The FV4CNF005 operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of 0.11 in. w.c. (See point 1.) On the same duct system, the FV4CNF005 operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 in. w.c. (See point 2.)

This example is but one of many possible duct system designs. The FV4CNF005 will deliver the above airflows against much higher static pressures.



AIRFLOW PERFORMANCE

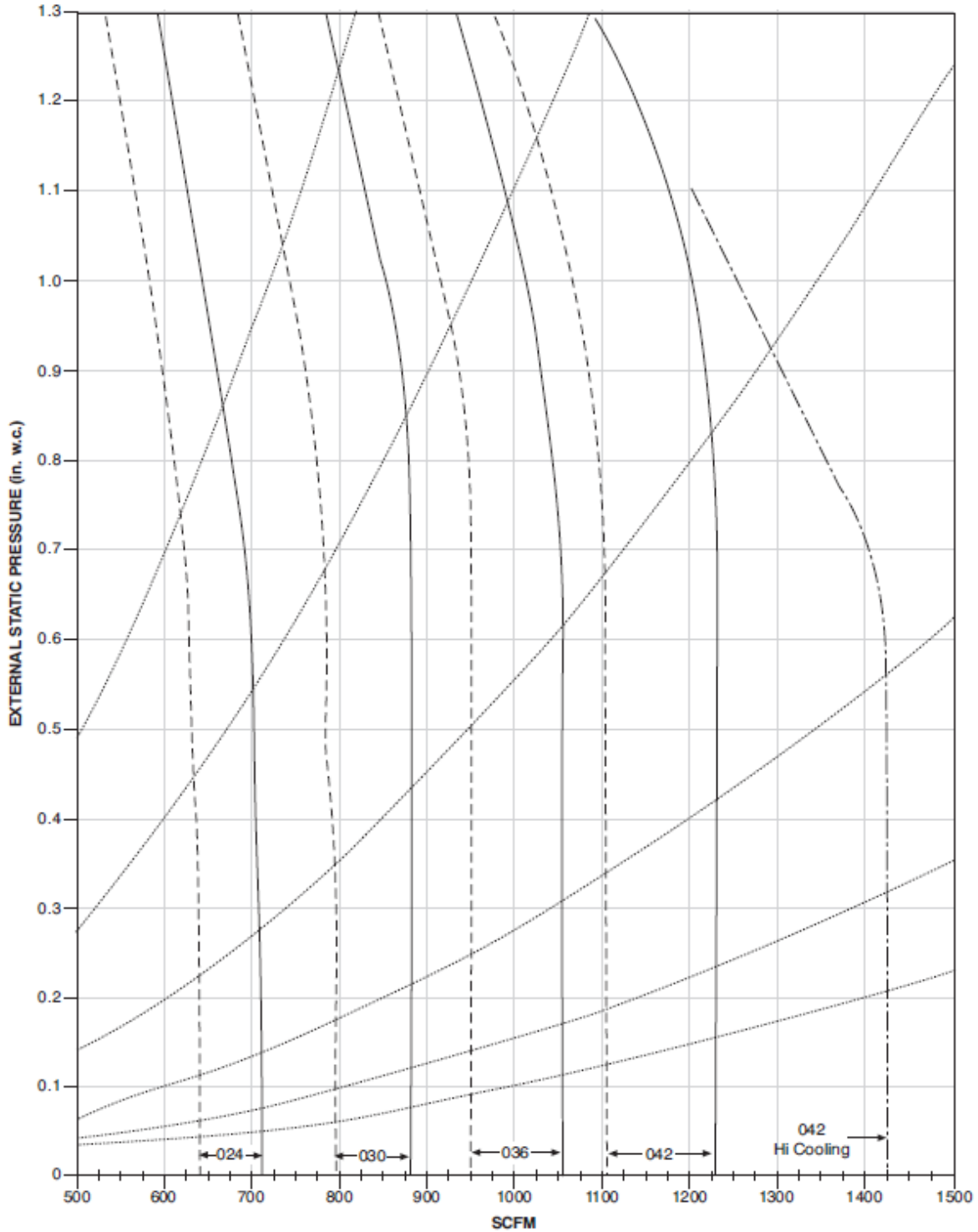


A09340

FV4CNF002

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

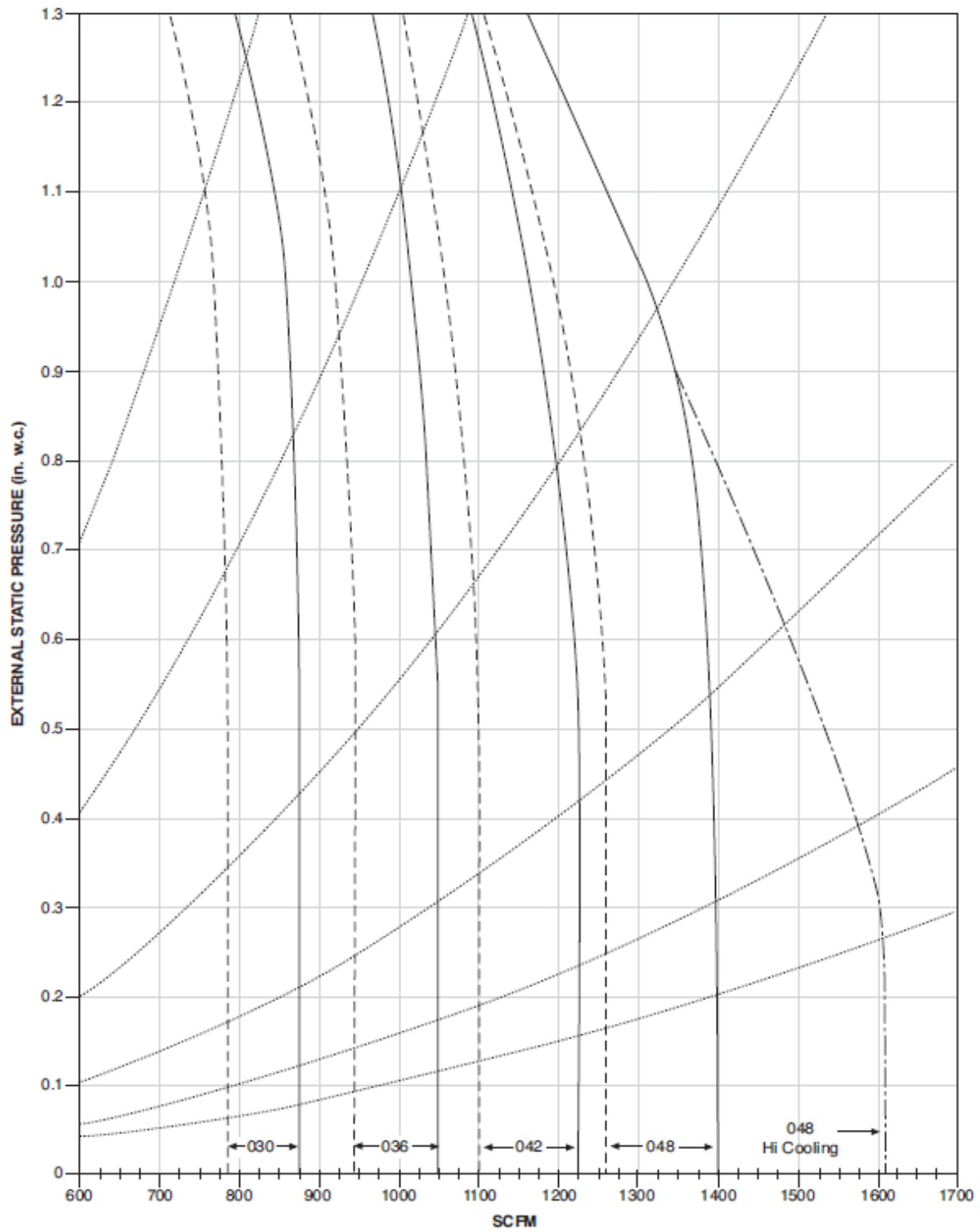


A09341

FV4CN(B,F)003

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE

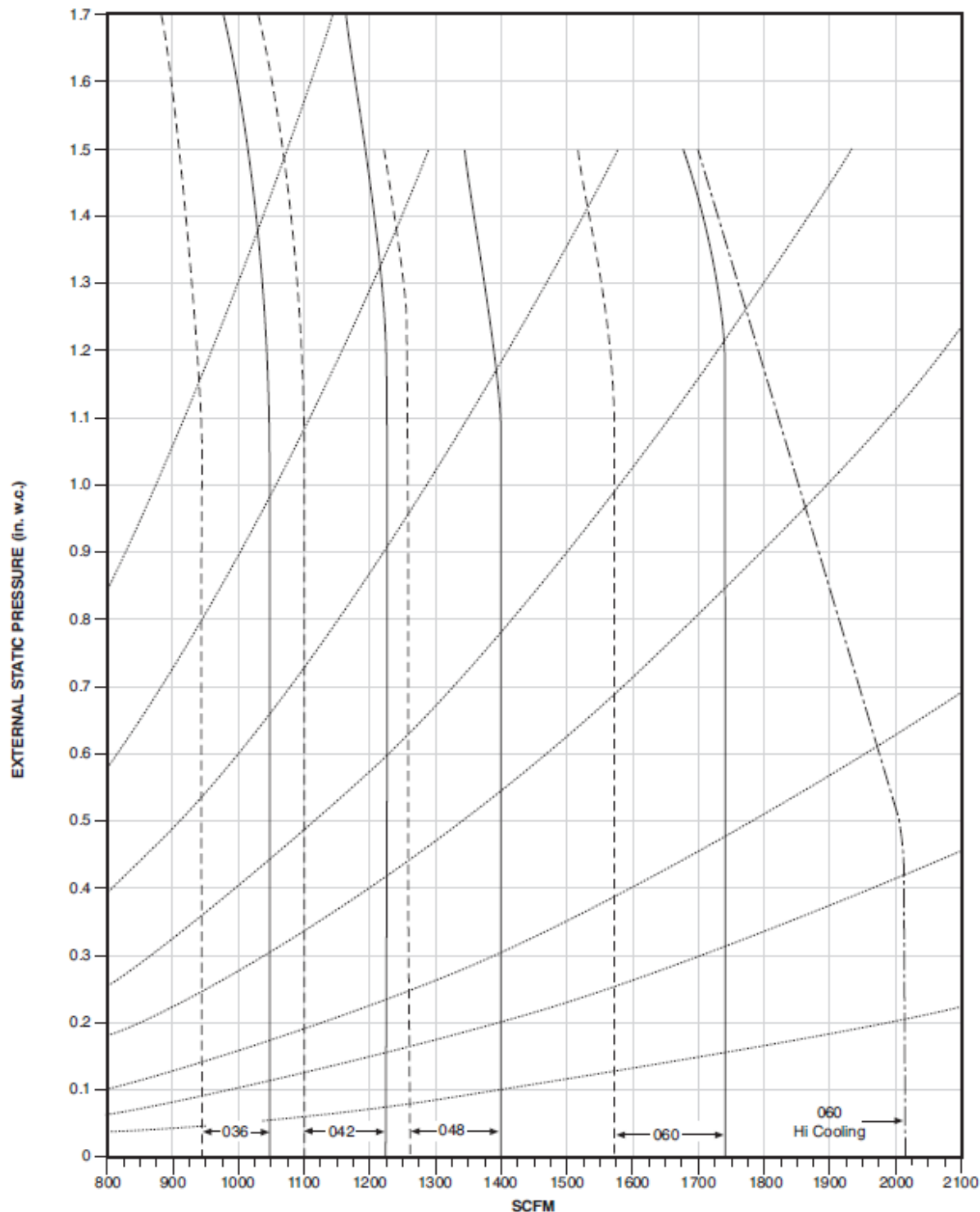


A09342

FV4CN(B,F)005

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE



A09343

FV4CNB006

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · · Fixed Duct Systems (See description under Acceptable Duct Conditions.)

AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATER KW	ELEMENTS	STATIC PRESSURE CORRECTION (in. wc)	
		Sizes 002-005	Size 006
0	0	+ .02	+ .03
5	1	+ .01	+ .02
8, 10	2	0	0
9, 15	3	-.02	-.03
20	4	-.04	-.06
18, 24, 30	6	-.06	-.10

The FV4C airflow performance table was developed using fan coils with 10-kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in. wc)

UNIT SIZE	CFM									
	400	600	800	1000	1200	1400	1600	1800	2000	
002	0.020	0.044	0.048	0.072	0.100	—	—	—	—	
003	—	0.020	0.035	0.051	0.070	0.092	—	—	—	
005	—	—	0.035	0.051	0.070	0.092	0.120	—	—	
006	—	—	—	0.038	0.053	0.070	0.086	0.105	0.133	

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (IN. WC) AT INDICATED AIRFLOW (DRY TO WET COIL)

UNIT SIZE	CFM										
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	—	—	—	—
003	—	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	—	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
UNIT SIZE	CFM										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048

UNITS WITHOUT ELECTRICAL HEAT

UNIT SIZE	VOLTS—PHASE	FLA	MIN CKT AMPS	BRANCH CIRCUIT	
				Min Wire Size Awg*	Fuse/Ckt Bkr Amps
002	208/230-1	4.3	5.4	14	15
003	208/230-1	4.3	5.4	14	15
005	208/230-1	4.3	5.4	14	15
006	208/230-1	6.8	8.5	14	15

*Use copper wire only to connect unit. If other than uncoated (non-plated) 75°C copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used consult applicable tables of the National Electric Code (ANSI/NFPA 70).

NOTE: If branch circuit wire length exceeds 100 ft, consult NEC 210-19a to determine maximum wire length. Use 2% voltage drop.

FLA — Full Load Amps

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Payne

Model: PF4MNB

Performance Data

Table 1 – Airflow Performance (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
PF4MNB019	Tap 5	776	745	696	660	609	572
	Tap 4	683	644	589	548	494	461
	Tap 3	683	644	589	548	494	461
	Tap 2	631	583	500	443	409	361
	Tap 1	625	524	457	417	367	319
PF4MNB025	Tap 5	958	920	891	851	816	780
	Tap 4	825	795	757	722	674	634
	Tap 3	825	795	757	722	674	634
	Tap 2	728	695	635	598	543	509
	Tap 1	631	583	500	443	409	361
PF4MNB031	Tap 5	1189	1151	1104	1050	1003	959
	Tap 4	1041	998	944	886	837	772
	Tap 3	1041	998	944	886	837	772
	Tap 2	924	876	817	752	704	660
	Tap 1	779	693	628	571	526	476
PF4MNB037	Tap 5	1363	1332	1294	1253	1207	1157
	Tap 4	1237	1206	1160	1121	1070	1013
	Tap 3	1237	1206	1160	1121	1070	1013
	Tap 2	1095	1058	1007	951	888	824
	Tap 1	1014	885	773	673	609	549
PF4MNB043	Tap 5	1519	1490	1454	1419	1379	1332
	Tap 4	1437	1403	1366	1333	1294	1245
	Tap 3	1437	1403	1366	1333	1294	1245
	Tap 2	1257	1226	1191	1141	1090	1033
	Tap 1	1237	1206	1160	1121	1070	1013
PF4MNB049	Tap 5	1757	1725	1693	1653	1614	1576
	Tap 4	1664	1628	1593	1552	1517	1477
	Tap 3	1664	1628	1593	1552	1517	1477
	Tap 2	1459	1420	1379	1336	1298	1259
	Tap 1	1301	1241	1195	1150	1102	1039
PF4MNB061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1685	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

■ - Airflow above 450 cfm/ton.

Notes:

1. Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 037, 3 element heater sizes 043 through 061).
2. Airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
3. To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 043 - 061 sizes must have supply static greater than 0.20 in wc.
4. Airflow above 400 cfm/ton on 049-061 size could result in condensate blowing off coil or splashing out of drain pan.

Table 4 – Minimum CFM and Motor Speed Selection

FAN COIL SIZES	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
019	525	525	525	—	600*	—	—	—	—	—
025	700	700	700	—	700	775*	—	—	—	—
031	—	875	875	—	875	875	—	1060*	—	—
037	—	1050	970	970	970	920	—	1040	—	—
043	—	—	1225	1225	1225	1225	1225	1225	—	—
049	—	—	1400	1400	1400	1400	1400	1400	1400	1400
061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates medium speed (blue). All other motor speeds at low tap.

Table 5 – Air Delivery Performance Correction Component Pressure Drop (in wc) at Indicated Airflow (Dry-to-Wet Coil)

SIZE	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
019	0.034	0.049	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—
025	0.016	0.027	0.038	0.049	0.059	—	—	—	—	—	—	—	—	—	—	—
031	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
037	—	—	—	—	—	0.055	0.064	0.073	0.081	—	—	—	—	—	—	—
043	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
049	—	—	—	—	—	—	—	—	—	0.038	0.043	0.049	0.054	0.059	—	—
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

Table 6 – Factory-Installed Filter Static Pressure Drop (in wc)

Unit Size PF4MNB	CFM									
	400	600	800	1000	1200	1400	1600	1800	2000	
019, 025	0.012	0.022	0.048	0.072	-	-	-	-	-	
031, 037, 043	-	-	0.036	0.051	0.07	0.092	0.12	-	-	
049, 061	-	-	-	-	-	0.073	0.086	0.105	0.13	

Table 7 – Electric Heater Static Pressure Drop (in wc)

019 - 031			037-061		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 018 through 037 size units and 15-kW heaters (3 elements) in the 042 through 060 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Payne

Model: PF4MNP

Performance Data

Table 1 – PF4MNP Airflow Performance (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
PF4MNP 018	Tap 5	767	739	702	669	620	565
	Tap 4	614	569	534	486	436	398
	Tap 3	701	660	616	581	537	499
	Tap 2	614	569	534	486	436	398
	Tap 1	410	350	304	261	228	203
PF4MNP 025	Tap 5	965	920	870	823	780	740
	Tap 4	820	783	740	680	630	575
	Tap 3	820	783	740	680	630	575
	Tap 2	720	655	610	555	485	450
	Tap 1	716	600	540	495	430	328
PF4MNP 030	Tap 5	1108	1090	1065	1034	1009	974
	Tap 4	1026	1000	969	938	899	865
	Tap 3	1026	1000	969	938	899	865
	Tap 2	909	873	842	799	762	724
	Tap 1	825	795	757	722	674	634
PF4MNP 036	Tap 5	1301	1276	1245	1218	1176	1121
	Tap 4	1227	1191	1169	1143	1105	1074
	Tap 3	1227	1191	1169	1143	1105	1074
	Tap 2	1087	1062	1030	1001	966	930
	Tap 1	1026	1000	969	938	899	865
PF4MNP 042	Tap 5	1560	1544	1507	1464	1424	1358
	Tap 4	1419	1397	1358	1320	1279	1239
	Tap 3	1419	1397	1358	1320	1279	1239
	Tap 2	1249	1220	1184	1142	1093	1052
	Tap 1	1242	1205	1158	1110	1069	1026
PF4MNP 048	Tap 5	1743	1712	1679	1642	1610	1574
	Tap 4	1669	1634	1599	1564	1531	1499
	Tap 3	1669	1634	1599	1564	1531	1499
	Tap 2	1452	1413	1377	1339	1308	1271
	Tap 1	1300	1256	1221	1182	1142	1101
PF4MNP 060	Tap 5	1897	1867	1836	1808	1774	1736
	Tap 4	1817	1785	1757	1724	1693	1655
	Tap 3	1817	1785	1757	1724	1693	1655
	Tap 2	1657	1621	1589	1557	1518	1474
	Tap 1	1443	1412	1377	1332	1286	1243

■ - Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 036, 3 element heater sizes 042 through 060). For PF4MNP models, airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in. wc.
Horizontal applications of 042 - 060 sizes must have supply static greater than 0.20 in. wc.
- Airflow above 400 cfm/ton on 048-060 size could result in condensate blowing off coil or splashing out of drain pan.

Table 4 – PF4MNP Air Delivery Performance Correction Component Pressure Drop (in wc) at Indicated Airflow (Dry to Wet Coil)

UNIT SIZE	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
018	0.034	0.049	0.063	--	--	--	--	--	--	--	--	--	--	--	--	--
025	0.015	0.026	0.038	0.049	0.059	--	--	--	--	--	--	--	--	--	--	--
030	--	--	--	0.049	0.059	0.070	0.080	--	--	--	--	--	--	--	--	--
036	--	--	--	--	--	0.070	0.080	0.090	0.099	--	--	--	--	--	--	--
042	--	--	--	--	--	--	--	0.049	0.058	0.063	0.070	--	--	--	--	--
048	--	--	--	--	--	--	--	--	--	0.063	0.070	0.076	0.083	0.090	--	--
060	--	--	--	--	--	--	--	--	--	--	--	0.049	0.054	0.059	0.065	0.070

Table 5 – Electric Heater Static Pressure Drop (in wc)

PF4MNP 018 - 036			PF4MNP 042 - 060		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+02	0	0	+04
1	3, 5	+01	2	8, 10	+02
2	8, 10	0	3	9, 15	0
3	9, 15	-02	4	20	-02
4	20	-04	6	18, 24, 30	-10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 018 through 036 size units and 15-kW heaters (3 elements) in the 042 through 060 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

Table 6 – Minimum CFM and Motor Speed Selection

PF4MNP	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
018	525	525	525	—	600	—	—	—	—	—
025	700	700	700	—	700	775	—	—	—	—
030	—	875	875	—	875	875	—	1060	—	—
036	—	1050	970	970	970	920	—	1040	—	—
042	—	—	1225	1225	1225	1225	1225	1225	—	—
048	—	—	1400	1400	1400	1400	1400	1400	1400	1400
060	—	—	1750	1750	1750	1750	1750	1750	1750	1750

Speed Tap 4 (white wire) is used for electric heat only. White wire must remain on tap 4.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Rheem

Model: RH1T

5.0 AIRFLOW PERFORMANCE

Airflow performance data is based on cooling performance with a coil and no filter in place. Select performance table for appropriate unit size, voltage and number of electric heaters to be used. Make sure external static applied to unit allows operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation. For optimum blower performance, operate the unit in the .3 to .7 in W.C. external static range. Units with coils should be applied with a minimum of .1 in W.C. external static.

5.1 AIRFLOW OPERATING LIMITS

Cabinet Width	17		17/21		21		24	
Cooling BTUH x 1,000 Cooling Tons Nominal	18 1.5	24 2	30 2.5	36 3	42 3.5	48 4	48 4	60 5
Heat Pump or Air Conditioning Maximum Heat/Cool CFM [L/s] (37.5 CFM [18 L/s]/1,000 BTUH) (450 CFM [212 L/s]/Ton Nominal)	675 [319]	900 [425]	1125 [531]	1350 [637]	1575 [743]	1800 [850]	1800 [850]	1930 [911]
Heat Pump or Air Conditioning Nominal Heat/Cool CFM [L/s] (33.3 CFM [16 L/s]/1,000 BTUH) (400 CFM [189 L/s]/Ton Nominal)	600 [283]	800 [378]	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1600 [755]	1800 [850]
Heat Pump or Air Conditioning Minimum Heat/Cool CFM [L/s] (30.0 CFM [14 L/s]/1,200 BTUH) (360 CFM [170 L/s]/Ton Nominal)	540 [255]	720 [340]	900 [425]	1080 [510]	1260 [595]	1440 [680]	1440 [680]	1620 [765]
Maximum kW Electric Heating & Minimum Electric Heat CFM [L/s]	13 487 [230]	13 617 [291]	18 814 [384]	18 1054 [497]	20 1171 [553]	25 1502 [709]	25 1502 [709]	30 1666 [786]
Maximum Electric Heat Rise °F [°C]	80 [26.7]	63 [17.2]	66 [18.9]	51 [10.6]	49 [9.4]	50 [10]	50 [10]	54 [12.2]

5.2 115/208/240/480V AIRFLOW PERFORMANCE DATA – (-)H1T (CONSTANT TORQUE MOTOR)

Model Number (-)H1T	Tonnage Application	Motor Speed From Factory	Manufacturer Recommended Air Flow Range (Min / Max) CFM	Blower Size/ Motor H.P. # of Speeds	Motor Speed	X-13 CFM(L/s) Air Delivery/RPM/Watts External Static Pressure-Inches W.C.							
						0.10 [.02]	0.20 [.05]	0.30 [.07]	0.40 [.10]	0.50 [.12]	0.60 [.15]	0.70 [.17]	
						CFM	RPM	Watts	CFM	RPM	Watts	CFM	RPM
2417ST No Heat	1.5	5	683/485	10x8 1/3 [249] 5 Speed	2	CFM	837	713	608	554	485	—	—
						RPM	565	587	630	692	751	—	—
						Watts	95	81	88	74	66	—	—
					3	CFM	—	—	—	—	683	615	572
						RPM	—	—	—	—	789	842	892
						Watts	—	—	—	—	140	159	155
2417ST with 13kw Heater	1.5	5	683/485	10x8 1/3 [249] 5 Speed	2	CFM	814	692	589	535	467	—	—
						RPM	592	613	656	719	778	—	—
						Watts	108	90	97	82	73	—	—
					3	CFM	—	—	—	—	808	629	584
						RPM	—	—	—	—	789	842	892
						Watts	—	—	—	—	148	168	163
2417ST No Heat	2	5	858/697	10x8 1/3 [249] 5 Speed	4	CFM	902	846	788	742	679	—	—
						RPM	596	645	694	741	791	—	—
						Watts	105	108	116	121	130	—	—
					5	CFM	—	—	—	—	858	816	770
						RPM	—	—	—	—	834	879	925
						Watts	—	—	—	—	185	182	214
2417ST with 13kw Heater	2	5	683/485	10x8 1/3 [249] 5 Speed	4	CFM	882	827	769	723	661	—	—
						RPM	595	670	719	767	817	—	—
						Watts	113	125	124	129	197	—	—
					5	CFM	—	—	—	—	833	791	746
						RPM	—	—	—	—	852	898	944
						Watts	—	—	—	—	192	189	222
3617ST No heater	2.5	5	935/1084 CFM [441/512 L/s]	10x8 1/2 [373] 5 Speed	2	CFM	1093 [516]	1050 [496]	1017 [480]	977 [461]	935 [441]	—	—
						RPM	671	725	764	809	852	—	—
						Watts	153	168	174	180	188	—	—
					3	CFM	—	—	—	—	1084 [512]	1040 [491]	1001 [472]
						RPM	—	—	—	—	896	936	971
						Watts	—	—	—	—	249	257	261
3617ST with 18kw heater	2.5	5	910/1059 CFM [429/500 L/s]	10x8 1/2 [373] 5 Speed	2	CFM	1068 [504]	1025 [484]	992 [468]	952 [449]	910 [429]	—	—
						RPM	711	765	804	849	892	—	—
						Watts	164	179	185	191	199	—	—
					3	CFM	—	—	—	—	1059 [500]	1015 [479]	976 [461]
						RPM	—	—	—	—	936	976	1011
						Watts	—	—	—	—	260	268	272
3617ST No heater	3.0	5	1130/1275 CFM [533/602 L/s]	10x8 1/2 [373] 5 Speed	4	CFM	1270 [599]	1237 [584]	1199 [566]	1165 [550]	1130 [533]	—	—
						RPM	775	816	846	882	926	—	—
						Watts	237	249	259	268	277	—	—
					5	CFM	—	—	—	—	1275 [602]	1244 [587]	1211 [571]
						RPM	—	—	—	—	963	999	1029
						Watts	—	—	—	—	338	348	363

5.2 115/208/240/480V AIRFLOW PERFORMANCE DATA – (-)H1T (CONSTANT TORQUE MOTOR) - continued

Model Number (-)H1T	Tonnage Application	Motor Speed From Factory	Manufacturer Recommended Air Flow Range (Min / Max) CFM	Blower Size/ Motor H.P. # of Speeds	Motor Speed	X-13 CFM(L/s) Air Delivery/RPM/Watts External Static Pressure-Inches W.C.									
						0.10 [.02]	0.20 [.05]	0.30 [.07]	0.40 [.10]	0.50 [.12]	0.60 [.15]	0.70 [.17]			
						CFM	L/s	RPM	Watts	CFM	L/s	RPM	Watts	CFM	L/s
3617ST with 18kw heater	3.0	5	1105/1250 CFM [521/590 L/s]	10x8 1/2 (373) 5 Speed	4	CFM	1245 [588]	1212 [572]	1174 [554]	1140 [538]	1105 [521]	—	—		
						RPM	815	856	886	922	966	—	—		
						Watts	248	260	270	279	288	—	—		
					5	CFM	—	—	—	—	1250 [590]	1219 [575]	1186 [560]	—	—
						RPM	—	—	—	—	1003	1039	1069	—	—
						Watts	—	—	—	—	349	359	374	—	—
3621MT No Heater	2.5	5	854/1103 CFM [403/521 L/s]	10x10 1/2 HP 5 Speed	2	CFM	1073	1016	963	906	854	—	—		
						RPM	637	692	746	801	847	—	—		
						Watts	130	142	153	165	176	—	—		
					3	CFM	—	—	—	—	1103	1069	1000	—	—
						RPM	—	—	—	—	917	957	1001	—	—
						Watts	—	—	—	—	262	271	285	—	—
3621MT with 18kW Heater	2.5	5	828/1016 CFM [391/480 L/s]	10x10 1/2 HP 5 Speed	2	CFM	1044	988	936	880	828	—	—		
						RPM	678	734	791	844	883	—	—		
						Watts	141	155	158	171	182	—	—		
					3	CFM	—	—	—	—	1016	961	904	—	—
						RPM	—	—	—	—	939	968	1015	—	—
						Watts	—	—	—	—	233	243	255	—	—
3621MT No Heater	3 & 3.5	5	1070/1288 CFM [505/608 L/s]	10x10 1/2 HP 5 Speed	4	CFM	1264	1223	1171	1112	1070	—	—		
						RPM	724	761	814	868	900	—	—		
						Watts	198	208	222	237	245	—	—		
					5	CFM	—	—	—	—	1288	1244	1200	—	—
						RPM	—	—	—	—	974	1012	1044	—	—
						Watts	—	—	—	—	345	362	371	—	—
3621MT with 18W Heater	3 & 3.5	5	1042/1257 CFM [492/593 L/s]	10x10 1/2 HP 5 Speed	4	CFM	1233	1193	1142	1084	1042	—	—		
						RPM	750	794	845	915	933	—	—		
						Watts	219	215	227	251	261	—	—		
					5	CFM	—	—	—	—	1257	1213	1169	—	—
						RPM	—	—	—	—	1020	1023	1054	—	—
						Watts	—	—	—	—	355	368	376	—	—
4821ST No heater	3.5	5	1337/1447 CFM [631/683 L/s]	10x10 3/4 (559) 5 Speed	2	CFM	1473 [695]	1442 [681]	1401 [661]	1373 [648]	1337 [631]	—	—		
						RPM	781	825	867	905	949	—	—		
						Watts	257	271	303	307	315	—	—		
					3	CFM	—	—	—	—	1447 [683]	1433 [676]	1402 [662]	—	—
						RPM	—	—	—	—	987	1034	1065	—	—
						Watts	—	—	—	—	394	406	405	—	—
4821ST with 20kw heater	3.5	5	1297/1333 CFM [612/629 L/s]	10x10 3/4 (559) 5 Speed	2	CFM	1433 [676]	1402 [662]	1361 [642]	1333 [629]	1297 [612]	—	—		
						RPM	831	875	919	954	989	—	—		
						Watts	277	295	313	319	325	—	—		
					3	CFM	—	—	—	—	1333 [629]	1300 [613]	1267 [598]	—	—
						RPM	—	—	—	—	1011	1046	1080	—	—
						Watts	—	—	—	—	350	364	377	—	—
4821ST No heater	4.0	5	1535/1654 CFM [724/781 L/s]	10x10 3/4 (559) 5 Speed	4	CFM	1665 [786]	1631 [770]	1601 [756]	1572 [742]	1535 [724]	—	—		
						RPM	853	893	934	968	1015	—	—		
						Watts	351	387	401	406	422	—	—		
					5	CFM	—	—	—	—	1654 [781]	1624 [766]	1563 [738]	—	—
						RPM	—	—	—	—	1036	1078	1095	—	—
						Watts	—	—	—	—	500	513	523	—	—
4821ST with 25kw heater	4.0	5	1495/1614 CFM [706/762 L/s]	10x10 3/4 (559) 5 Speed	4	CFM	1625 [767]	1591 [751]	1561 [737]	1532 [723]	1495 [706]	—	—		
						RPM	894	932	970	1020	1052	—	—		
						Watts	389	400	410	430	450	—	—		
					5	CFM	—	—	—	—	1614 [762]	1584 [748]	1523 [719]	—	—
						RPM	—	—	—	—	1085	1090	1105	—	—
						Watts	—	—	—	—	514	520	530	—	—

5.2 115/208/240/480V AIRFLOW PERFORMANCE DATA – (-)H1T (CONSTANT TORQUE MOTOR) - continued

Model Number (-)H1T	Tonnage Application	Motor Speed From Factory	Manufacturer Recommended Air Flow Range (Min / Max) CFM	Blower Size/ Motor H.P. # of Speeds	Motor Speed	X-13 CFM(L/s) Air Delivery/RPM/Watts External Static Pressure-Inches W.C.							
						0.10 [.02]	0.20 [.05]	0.30 [.07]	0.40 [.10]	0.50 [.12]	0.60 [.15]	0.70 [.17]	
						CFM	RPM	Watts	CFM	RPM	Watts	CFM	RPM
4824ST No heater	4.0	3	1545/1732 CFM [729/817 L/s]	11x11 3/4 [559] 5 Speed	2	CFM	1748 [82s]	1669 [788]	1639 [773]	1599 [755]	1545 [729]	—	—
						RPM	660	698	734	762	795	—	—
						Watts	297	311	326	340	353	—	—
					3	CFM	—	—	—	—	1732 [817]	1683 [794]	1630 [769]
						RPM	—	—	—	—	840	872	899
						Watts	—	—	—	—	448	467	480
4824ST with 25kw heater	4.0	3	1505/1692 CFM [710/798 L/s]	11x11 3/4 [559] 5 Speed	2	CFM	1708 [806]	1629 [769]	1599 [755]	1559 [736]	1505 [710]	—	—
						RPM	680	736	760	790	820	—	—
						Watts	305	330	341	350	361	—	—
					3	CFM	—	—	—	—	1692 [798]	1643 [775]	1590 [750]
						RPM	—	—	—	—	865	890	1014
						Watts	—	—	—	—	460	470	481
6024ST No heater	5.0	5	1739/1905 CFM [821/899 L/s]	11x11 3/4 [559] 5 Speed	4	CFM	1902 [898]	1862 [879]	1809 [854]	1781 [840]	1739 [821]	—	—
						RPM	712	749	787	815	866	—	—
						Watts	389	409	419	432	459	—	—
					5	CFM	—	—	—	—	1905 [899]	1866 [881]	1832 [865]
						RPM	—	—	—	—	894	924	950
						Watts	—	—	—	—	565	570	592
6024ST with 30kw heater	5.0	5	1699/1865 CFM [802/880 L/s]	11x11 3/4 [559] 5 Speed	4	CFM	1862 [879]	1822 [860]	1769 [835]	1741 [822]	1699 [802]	—	—
						RPM	750	790	810	850	880	—	—
						Watts	410	420	430	455	479	—	—
					5	CFM	—	—	—	—	1865 [880]	1826 [862]	1792 [846]
						RPM	—	—	—	—	920	945	970
						Watts	—	—	—	—	565	587	610
6024ST No Heater	4 & 5	5	1517/1697 CFM [716/801 L/s]	11x11 3/4 [559] 5 Speed	2	CFM	1705 [805]	1661 [784]	1632 [770]	1572 [742]	1517 [716]	—	—
						RPM	663	701	741	782	819	—	—
						Watts	292	309	321	343	357	—	—
					3	CFM	—	—	—	—	1697 [801]	1646 [777]	1601 [756]
						RPM	—	—	—	—	857	895	920
						Watts	—	—	—	—	447	466	473
6024ST with 30kW Heater	4 & 5	5	1482/1661 CFM [700/784 L/s]	11x11 3/4 [559] 5 Speed	2	CFM	1669 [788]	1625 [767]	1595 [753]	1537 [725]	1482 [700]	—	—
						RPM	698	739	763	816	842	—	—
						Watts	308	317	329	361	373	—	—
					3	CFM	—	—	—	—	1661 [784]	1611 [760]	1566 [739]
						RPM	—	—	—	—	882	915	939
						Watts	—	—	—	—	447	480	487

NOTE:

Constant torque motor speed changes

All constant torque motors have 5 speed tabs. Speed tab 1 is for continuous fan. Speed tab 2 (low static) and Speed tab 3 (high static) are for lower tonnage. Speed tab 4 (low static) and Speed tab 5 (high static) are for higher tonnage.

Constant torque air handlers are always shipped from factory at speed tab 5, except for -4824, which is set at speed tab 3.

The low static Speed tab 2 (lower tonnage) and 4 (higher tonnage) are used for external static below 0.5" WC. The high static Speed tab 3 (lower tonnage) and 5 (higher tonnage) are used for external static exceeding 0.5" WC. Move the blue wire to the appropriate speed tab as required by the application needs.

- The airflow for continuous fan (Speed tab 1) is always set at 50% of the Speed tab 4.
- The above airflow table lists the airflow information for air handlers without heater and air handler with maximum heater allowed for each model.
- The following formula can be used to calculate the approximate airflow, if a smaller (N kw) than the maximum heater kit is installed.
Approximate Airflow = Airflow without heater - (Airflow without heater - Airflow with maximum heater) X (N kw/maximum heater kw)

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Rheem

Model: RH2T

5.3 240V AIRFLOW PERFORMANCE DATA – (-)H2T (CONSTANT TORQUE MOTOR)

Model Number (-)H2T	Nominal Cooling Capacity Tons	Motor Speed From Factory	Manufacturer Recommended Air Flow Range (Min / Max) CFM	Blower Size/ Motor HP # of Speeds	Y1, Y2 Speed	Motor Speed	X-13 Wet Coil no filter CFM Air Delivery/RPM/Watts																
							External Static Pressure-Inches W.C.																
							0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00							
2421MT No Heater	2.0	Y1 tap 4 Y2 tap 5	Y1-310/8 17 CFM [145/385] L/s Y2-445/9 51 CFM [210/448] L/s	10X8 1/3 hp 5 speed	Y1 Low Static	Tap 2	CFM	740	569	310	—	—	—	—	—	—	—	—	—	—			
							RPM	542	561	584	—	—	—	—	—	—	—	—	—	—	—	—	
							Watts	94	72	49	—	—	—	—	—	—	—	—	—	—	—	—	—
						Tap 3	CFM	851	704	653	590	541	489	445	—	—	—	—	—	—	—	—	—
							RPM	578	599	647	711	770	814	868	—	—	—	—	—	—	—	—	—
							Watts	88	93	98	103	108	113	118	—	—	—	—	—	—	—	—	—
					Tap 4	CFM	817	699	574	515	—	—	—	—	—	—	—	—	—	—	—	—	
						RPM	573	588	630	702	—	—	—	—	—	—	—	—	—	—	—	—	
						Watts	97	88	78	69	—	—	—	—	—	—	—	—	—	—	—	—	
					Tap 5	CFM	951	911	872	824	787	742	691	—	—	—	—	—	—	—	—	—	
						RPM	622	672	725	772	821	880	922	—	—	—	—	—	—	—	—	—	
						Watts	134	146	157	168	179	191	202	—	—	—	—	—	—	—	—	—	
2421MT With 13 kW Heater	2.0	Y1 tap 4 Y2 tap 5	Y1-290/7 97 CFM [135/376] L/s Y2-425/9 31 CFM [200/439] L/s	10X8 1/3 hp 5 speed	Y1 Low Static	Tap 2	CFM	720	549	290	—	—	—	—	—	—	—	—	—				
							RPM	557	576	599	—	—	—	—	—	—	—	—	—	—			
							Watts	99	77	54	—	—	—	—	—	—	—	—	—	—	—		
						Tap 3	CFM	831	684	633	570	521	469	425	—	—	—	—	—	—	—	—	
							RPM	593	614	662	726	785	829	883	—	—	—	—	—	—	—	—	
							Watts	93	98	103	108	113	118	123	—	—	—	—	—	—	—	—	
					Tap 4	CFM	797	679	554	496	—	—	—	—	—	—	—	—	—	—	—	—	
						RPM	588	603	645	717	—	—	—	—	—	—	—	—	—	—	—	—	
						Watts	102	93	83	74	—	—	—	—	—	—	—	—	—	—	—		
					Tap 5	CFM	931	891	852	804	767	722	671	—	—	—	—	—	—	—	—	—	
						RPM	637	687	740	787	836	895	937	—	—	—	—	—	—	—	—	—	
						Watts	139	151	162	173	184	196	207	—	—	—	—	—	—	—	—		
3621MT No Heater	3.0	Y1 tap 4 Y2 tap 5	Y1-434/1 005 CFM [204/474] L/s Y2-703/1 328 CFM [331/626] L/s	10X10 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	919	757	596	434	—	—	—	—	—	—	—	—				
							RPM	567	584	635	691	—	—	—	—	—	—	—	—				
							Watts	83	79	75	71	67	62	58	54	—	—	—	—				
						Tap 3	CFM	1128	1067	1007	946	885	824	764	703	—	—	—	—	—	—		
							RPM	644	691	728	804	884	921	945	986	—	—	—	—	—			
							Watts	131	142	153	164	175	187	—	—	—	—	—	—				
					Tap 4	CFM	1005	942	879	816	753	690	—	—	—	—	—	—	—				
						RPM	597	645	700	790	830	868	—	—	—	—	—	—					
						Watts	99	108	117	127	136	145	154	164	173	182	—	—					
					Tap 5	CFM	1328	1273	1218	1164	1109	1055	1000	945	891	836	—	—					
						RPM	737	773	815	854	907	990	1040	1065	1085	1117	—	—					
						Watts	197	209	221	233	245	257	269	281	293	305	—	—					
3621MT With 18 kW Heater	3.0	Y1 tap 4 Y2 tap 5	Y1-404/9 75 CFM [190/460] L/s Y2-673/1 298 CFM [317/612] L/s	10X10 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	889	727	566	404	—	—	—	—	—	—	—	—				
							RPM	592	609	660	716	—	—	—	—	—	—	—					
							Watts	88	84	80	76	—	—	—	—	—	—	—					
						Tap 3	CFM	1098	1037	977	916	855	794	734	673	—	—	—	—				
							RPM	669	716	753	829	909	946	970	1011	—	—	—					
							Watts	136	147	158	169	180	192	5	5	—	—	—					
					Tap 4	CFM	975	912	849	786	723	660	—	—	—	—	—						
						RPM	622	670	725	815	855	893	—	—	—	—	—						
						Watts	104	113	122	132	141	150	—	—	—	—	—						
					Tap 5	CFM	1298	1243	1188	1134	1079	1025	970	915	861	806	—						
						RPM	762	796	840	879	932	1015	1065	1090	1110	1142	—						
						Watts	202	214	226	238	250	262	274	286	298	—	—						

5.3 240V AIRFLOW PERFORMANCE DATA – (-)H2T (CONSTANT TORQUE MOTOR) - continued

Model Number (-)H2T	Nominal Cooling Capacity Tons	Motor Speed From Factory	Manufacturer Recommended Air Flow Range (Min /Max) CFM	Blower Size/ Motor HP # of Speeds	Y1, Y2 Speed	Motor Speed	X-13 Wet Coil no filter CFM Air Delivery/RPM/Watts											
							External Static Pressure-Inches W.C.											
							0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00		
4824MT No Heater	4.0	Y1 tap 4 Y2 tap 5	Y1-702/1 271 CFM [331/599] L/s Y2-992/1 673 CFM [468/489] L/s	11X11 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	1196	1046	894	819	702	—	—	—	—	—	—
							RPM	563	580	598	643	696	—	—	—	—	—	—
							Watts	133	133	134	135	136	—	—	—	—	—	—
						Tap 3	CFM	1517	1461	1405	1347	1297	1247	1195	1144	1068	992	
							RPM	670	704	735	767	799	832	867	894	940	984	
							Watts	251	265	277	287	296	310	322	335	351	365	
					Y1 High Static	Tap 4	CFM	1271	1151	1095	1039	968	883	813	745	—	—	
							RPM	586	610	650	691	723	774	812	841	—	—	
							Watts	164	157	168	180	186	198	211	219	—	—	
						Tap 5	CFM	1673	1625	1576	1527	1476	1431	1381	1339	1289	1239	
							RPM	726	756	783	815	841	870	901	929	956	983	
							Watts	329	341	355	370	378	369	405	415	427	441	
4824MT With 25 kW Heater	4.0	Y1 tap 4 Y2 tap 5	Y1-572/1 241 CFM [314/582] L/s Y2-962/1 643 CFM [451/772] L/s	11X11 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	1166	1016	864	789	672	—	—	—	—	—	
							RPM	588	605	623	668	721	—	—	—	—	—	
							Watts	138	138	139	140	141	—	—	—	—	—	
						Tap 3	CFM	1487	1431	1375	1317	1267	1217	1165	1114	1038	962	
							RPM	695	729	760	792	824	857	892	919	965	1009	
							Watts	256	270	282	292	301	315	327	340	356	370	
					Y1 High Static	Tap 4	CFM	1241	1121	1065	1009	938	853	783	715	—	—	
							RPM	611	635	675	716	748	799	837	866	—	—	
							Watts	169	162	173	185	191	203	216	224	—	—	
						Tap 5	CFM	1643	1595	1546	1497	1446	1401	1351	1309	1259	1209	
							RPM	751	781	808	840	866	895	926	954	981	1008	
							Watts	334	346	360	375	383	394	410	420	432	446	
6024ST No Heater	5.0	Y1 tap 4 Y2 tap 5	Y1-785/1 350 CFM [370/637] L/s Y2-1249/1 1844 CFM [589/870] L/s	11X11 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	1280	1196	1134	1080	1011	945	880	785	—	—	
							RPM	591	620	665	710	742	781	818	853	—	—	
							Watts	165	170	175	192	200	209	220	231	—	—	
						Tap 3	CFM	1686	1632	1586	1538	1491	1447	1400	1352	1298	1249	
							RPM	733	770	801	830	863	891	922	953	982	1008	
							Watts	334	355	362	370	387	394	411	424	438	450	
					Y1 High Static	Tap 4	CFM	1350	1295	1240	1188	1130	1067	1002	931	849	—	
							RPM	612	654	695	734	772	811	840	874	908	—	
							Watts	179	198	205	225	236	242	253	260	276	—	
						Tap 5	CFM	1844	1796	1753	1702	1655	1612	1566	1520	1478	1429	
							RPM	794	823	852	880	908	938	968	997	1020	1044	
							Watts	434	448	460	470	490	502	512	530	540	553	
6024ST With 18 kW Heater	5.0	Y1 tap 4 Y2 tap 5	Y1-745/1 310 CFM [353/620] L/s Y2-1209/1 1804 CFM [570/851] L/s	11X11 3/4 hp 5 speed	Y1 Low Static	Tap 2	CFM	1240	1156	1094	1040	971	905	840	745	—	—	
							RPM	621	650	695	740	772	811	848	883	—	—	
							Watts	170	175	180	197	205	214	225	236	—	—	
						Tap 3	CFM	1646	1592	1546	1498	1451	1407	1360	1312	1258	1209	
							RPM	753	800	831	860	893	921	952	983	1012	1038	
							Watts	339	360	367	375	392	399	416	429	443	455	
					Y1 High Static	Tap 4	CFM	1310	1256	1200	1148	1090	1027	962	891	809	—	
							RPM	642	684	725	764	802	841	870	904	938	—	
							Watts	184	203	210	230	241	247	258	265	281	—	
						Tap 5	CFM	1804	1756	1713	1662	1615	1572	1526	1480	1438	1389	
							RPM	824	853	882	910	938	968	998	1027	1050	1074	
							Watts	439	453	465	475	495	507	517	535	545	558	

NOTE:

Constant torque motor speed changes

All constant torque motors have 5 speed tabs. Speed tab 1 is for continuous fan. Speed tab 2 (low static) and Speed tab 3 (high static) are for lower tonnage. Speed tab 4 (low static) and Speed tab 5 (high static) are for higher tonnage.

Constant torque air handlers are always shipped from factory at speed tab 5, except for -4824, which is set at speed tab 3.

The low static Speed tab 2 (lower tonnage) and 4 (higher tonnage) are used for external static below 0.5" WC. The high static Speed tab 3 (lower tonnage) and 5 (higher tonnage) are used for external static exceeding 0.5" WC. Move the blue wire to the appropriate speed tab as required by the application needs.

- The airflow for continuous fan (Speed tab 1) is always set at 50% of the Speed tab 4.
- The above airflow table lists the airflow information for air handlers without heater and air handler with maximum heater allowed for each model.
- The following formula can be used to calculate the approximate airflow, if a smaller (N kw) than the maximum heater kit is installed.

$$\text{Approximate Airflow} = \text{Airflow without heater} - (\text{Airflow without heater} - \text{Airflow with maximum heater}) \times (\text{N kw}/\text{maximum heater kw})$$

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Trane

Model: GAM5B

GAM5B0A18 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0A18M11SB, GAM5B0A18M11EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1081	977	930	862	556	1078	974	927	858	553
0.1	1044	922	850	806	379	1038	916	844	800	373
0.2	995	880	787	702	202	987	871	778	693	193
0.3	956	830	738	621	-	944	819	727	610	-
0.4	914	788	692	562	-	900	774	677	548	-
0.5	872	749	646	502	-	855	732	629	485	-
0.6	838	707	590	445	-	819	687	570	425	-
0.7	802	650	528	389	-	779	628	505	367	-
0.8	755	598	478	327	-	730	573	453	302	-
0.9	708	539	420	-	-	680	512	392	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is a continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0A18M11SB, GAM5B0A18M11EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without Heat Pump	With Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 3	Tap 4
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 3	Tap 4
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 4
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3 ①	Tap 5 ①
BAYEAAC10LG3AA	Tap 5	Tap 5 ②
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

① Heater not qualified for downflow installations
 ② Approved for 240 V only

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0A24 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0A24M21SB, GAM5B0A24M21EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1081	977	937	928	579	1078	974	933	925	576
0.1	1044	922	868	844	418	1038	916	863	838	412
0.2	995	880	817	777	306	987	871	808	768	298
0.3	956	830	767	729	-	944	819	756	717	-
0.4	914	788	719	682	-	900	774	705	668	-
0.5	872	749	680	635	-	855	732	663	618	-
0.6	838	707	628	577	-	819	687	609	557	-
0.7	802	650	566	515	-	779	628	544	492	-
0.8	755	598	511	467	-	730	573	486	442	-
0.9	708	539	460	407	-	680	512	432	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0A24M21SB, GAM5B0A24M21EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAC04BK1AA BAYEAC04LG1AA	Tap 3	Tap 4
BAYEAC05BK1AA BAYEAC05LG1AA	Tap 3	Tap 4
BAYEAC08BK1AA BAYEAC08LG1AA	Tap 3	Tap 4
BAYEAC10BK1AA BAYEAC10LG1AA	Tap 3 ①	Tap 5 ①
BAYEAC10LG3AA	Tap 5	Tap 5 ②
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

① Heater not qualified for downflow installations
 ② Approved for 240 V only

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0B30 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0B30M21SB, GAM5B0B30M21EA										
EXTERNAL STATIC (in w.g.)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1282	1150	979	856	678	1279	1146	976	853	675
0.1	1238	1094	931	797	482	1232	1088	925	791	476
0.2	1186	1047	863	725	285	1177	1039	854	716	276
0.3	1141	986	803	647	88	1130	975	791	636	77
0.4	1091	935	721	555	-	1076	921	707	540	-
0.5	1033	866	649	461	-	1016	849	632	444	-
0.6	977	799	554	388	-	958	779	534	369	-
0.7	914	732	490	318	-	892	710	468	296	-
0.8	846	646	429	-	-	821	621	404	-	-
0.9	771	587	376	-	-	743	560	348	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0B30M21SB, GAM5B0B30M21EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 2	Tap 3
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 2	Tap 3
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 4
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3	Tap 4
BAYEAAC10LG3AA	Tap 3 ①	Tap 4 ①
BAYEABC15BK1AA	Tap 4	Tap 5
BAYEABC15LG3AA	Tap 4	Tap 5
BAYEABC20BK1AA	-	-
BAYEACC25BK1AA	-	-

① 208 V not approved for upflow installations

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A "G" only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0B36 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0B36M31SB, GAM5B0B36M31EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1438	1387	1197	1013	732	1435	1383	1194	1009	729
0.1	1394	1340	1143	945	552	1388	1334	1137	939	546
0.2	1350	1299	1090	892	413	1341	1291	1082	884	404
0.3	1301	1245	1031	817	305	1289	1233	1019	806	293
0.4	1253	1197	975	751	209	1239	1183	960	737	195
0.5	1205	1151	917	651	-	1188	1134	900	634	-
0.6	1155	1094	837	578	-	1136	1075	817	559	-
0.7	1099	1032	766	499	-	1077	1010	744	476	-
0.8	1039	972	691	453	-	1014	946	666	-	-
0.9	964	889	633	409	-	936	861	605	-	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0B36M31SB, GAM5B0B36M31EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYE AAC04BK1AA BAYE AAC04LG1AA	Tap 2	Tap 3
BAYE AAC05BK1AA BAYE AAC05LG1AA	Tap 2	Tap 3
BAYE AAC08BK1AA BAYE AAC08LG1AA	Tap 3	Tap 4
BAYE AAC10BK1AA BAYE AAC10LG1AA	Tap 4	Tap 5
BAYE AAC10LG3AA	Tap 4	Tap 5
BAYE ABC15BK1AA	Tap 4	Tap 5
BAYE ABC15LG3AA	Tap 4	Tap 5
BAYE ABC20BK1AA	-	-
BAYE ACC25BK1AA	-	-

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A "G" only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0C42 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0C42M31SB, GAM5B0C42M31EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1644	1575	1401	1266	752	1641	1572	1398	1263	749
0.1	1596	1525	1346	1215	665	1590	1519	1340	1209	659
0.2	1550	1480	1300	1157	569	1542	1471	1291	1148	560
0.3	1509	1437	1252	1110	492	1497	1425	1241	1099	480
0.4	1463	1391	1205	1058	384	1449	1377	1191	1043	370
0.5	1420	1345	1151	980	327	1403	1328	1134	963	310
0.6	1376	1301	1085	917	259	1356	1282	1066	898	239
0.7	1332	1251	1020	865	-	1310	1228	998	842	-
0.8	1271	1179	969	813	-	1246	1154	944	788	-
0.9	1199	1119	924	747	-	1171	1091	897	719	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is an continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

GAM5B0C42M31SB, GAM5B0C42M31EA MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	Without HP	With HP
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 2	Tap 3
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 2	Tap 3
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 2	Tap 3
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 2	Tap 3
BAYEAAC10LG3AA	Tap 2	Tap 3
BAYEABC15BK1AA	Tap 3	Tap 4
BAYEABC15LG3AA	Tap 3	Tap 4
BAYEABC20BK1AA	-	-
BAYEACC25BK1AA	-	-

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4.

Note: A “G” only signal from the comfort control will run the blower at a lower speed, factory set at Speed Tap #1. See the Sequence of Operation for additional information.

Note: Speed Tap 1 is NOT used for two stage systems. Two stage systems will require an airflow adjustment.

GAM5B0C48 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE										
GAM5B0C48M41SB, GAM5B0C48M41EA										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	1913	1770	1694	1593	866	1910	1767	1691	1590	863
0.1	1874	1730	1653	1547	791	1868	1724	1647	1541	785
0.2	1834	1690	1611	1505	699	1825	1681	1602	1496	690
0.3	1791	1646	1567	1456	620	1780	1635	1556	1445	609
0.4	1748	1600	1521	1410	537	1734	1586	1506	1396	522
0.5	1708	1556	1476	1367	453	1691	1539	1459	1350	437
0.6	1668	1516	1436	1326	370	1648	1496	1416	1306	351
0.7	1629	1475	1394	1283	-	1607	1452	1372	1260	-
0.8	1588	1435	1352	1236	-	1563	1410	1327	1211	-
0.9	1541	1390	1304	1183	-	1513	1362	1276	1156	-

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. Electric heater pressure drop is negligible and is included within the airflow data.
 4. Tap 1 is a continuous fan speed tap for single stage systems. Airflow adjustment is required for 2 stage systems. See Airflow adjustment section.
 5. † Factory Setting

20.2 Adjustments for 2-Stage outdoor HP models

16 SEER Heat Pump Models					
OD MODEL	ID MODEL	SPEED TAP	SYSTEM STAGE	CFM	ESP
4TWR6024A* ^④	GAM5B0A24M21*	4	H	800	0.333
4TWX6024G* ^④		3	L	750	0.293
4A6H6024G* ^④					
4TWR6024A*	GAM5B0B30M21*	3	H	750	0.383
4TWX6024G*		2	L	665	0.301
4A6H6024G*					
4TWR6036A*	GAM5B0B36M31*	4	H	1150	0.500
4TWX6036E*		3	L	1005	0.382
4A6H6036E*					
4TWR6048A*	GAM5B0C42M31*	4	H	1375	0.468
4TWX6048G*		3	L	1235	0.378
4A6H6048G*					
4TWR6048A*	GAM5B0C48M41*	4	H	1575	0.400
4TWX6048G*		2	L	1420	0.325
4A6H6048G*					
4TWR6060A*	GAM5B0C60M51*	3	H	1700	0.390
4TWX6060E*		2	L	1645	0.365
4A6H6060E*					

17/18 SEER Heat Pump Models					
OD MODEL	ID MODEL	SPEED TAP	SYSTEM STAGE	CFM	ESP
4TWR7024A* ④	GAM5B0A24M21*	4	H	800	0.333
4TWX8024A* ④		3	L	750	0.293
4A6H7024A* ④					
4TWR7024A*	GAM5B0B30M21*	3	H	750	0.383
4TWX8024A*		2	L	665	.0301
4A6H7024A*					
4TWR7036A*	GAM5B0B36M31*	4	H	1150	0.500
4TWX8036A*		3	L	1005	0.382
4A6H7036A*					
4TWR7048A*	GAM5B0C48M41*	4	H	1575	0.400
4TWX8048A*		2	L	1420	0.325
4A6H7048A*					
4TWR7060A*	GAM5B0C60M51*	3	H	1700	0.390
4TWX8060A*		2	L	1645	0.365
4A6H7060A*					

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Trane

Model: TAM9A

TAM9A0A24 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	407 / 546 22 / 40	430 / 403 51 / 48	398 / NA 77 / NA	347 / NA 103 / NA	255 / NA 133 / NA	290 CFM/ton	CFM Watts	416 22	426 49	401 76	330 101	291 134
	350 CFM/ton	CFM Watts	534 / 630 39 / 57	549 / 531 71 / 68	542 / 360 103 / 73	509 / NA 132 / NA	445 / NA 156 / NA	350 CFM/ton	CFM Watts	532 37	550 69	542 101	507 129	434 152
	400 CFM/ton	CFM Watts	617 / 697 54 / 72	633 / 617 90 / 86	632 / 501 125 / 96	604 / NA 156 / NA	559 / NA 181 / NA	400 CFM/ton	CFM Watts	660 62	680 99	679 136	658 169	614 197
	450 CFM/ton	CFM Watts	691 / 762 72 / 91	710 / 693 111 / 106	707 / 602 148 / 119	688 / 478 183 / 127	649 / NA 212 / NA	450 CFM/ton	CFM Watts	690 69	710 108	709 145	690 180	651 208
	290 CFM/ton	CFM Watts	593 / 680 54 / 68	613 / 595 85 / 81	607 / 470 119 / 90	583 / 208 150 / 94	527 / 132 175 / 138	290 CFM/ton	CFM Watts	593 48	613 82	608 116	582 147	527 172
2 tons †	350 CFM/ton	CFM Watts	717 / 783 79 / 98	733 / 717 118 / 114	733 / 632 157 / 127	714 / 519 192 / 136	678 / 355 222 / 143	350 CFM/ton	CFM Watts	714 75	734 115	734 153	716 189	679 218
	400 † CFM/ton	CFM Watts	810 / 868 108 / 128	827 / 811 152 / 146	827 / 740 194 / 161	813 / 652 233 / 173	782 / 543 265 / 182	400 (a) CFM/ton	CFM Watts	862 122	881 168	884 213	874 254	849 290
	450 CFM/ton	CFM Watts	903 / 954 144 / 165	918 / 902 192 / 182	920 / 839 238 / 201	909 / 764 280 / 215	884 / 674 316 / 224	450 CFM/ton	CFM Watts	899 136	917 184	921 231	912 273	889 310
	290 CFM/ton	CFM Watts	741 / 820 86 / 110	757 / 759 126 / 127	757 / 681 166 / 141	739 / 582 202 / 152	705 / 452 232 / 159	290 CFM/ton	CFM Watts	738 81	757 122	758 162	742 198	707 229
	350 CFM/ton	CFM Watts	880 / 947 134 / 162	896 / 895 182 / 181	896 / 832 226 / 198	885 / 757 267 / 211	859 / 665 302 / 221	350 CFM/ton	CFM Watts	876 127	895 174	898 220	888 261	864 297
2.5 tons	400 CFM/ton	CFM Watts	996 / 1059 188 / 220	1011 / 1011 241 / 240	1014 / 954 291 / 257	1006 / 887 336 / 271	985 / 807 375 / 280	400 CFM/ton	CFM Watts	1064 215	1083 272	1089 326	1084 375	1066 418
	450 CFM/ton	CFM Watts	1120 / 1180 260 / 297	1135 / 1134 319 / 317	1137 / 1081 373 / 334	1129 / 1019 422 / 347	1108 / 946 463 / 355	450 CFM/ton	CFM Watts	1115 244	1133 304	1139 360	1133 410	1116 453
	290 CFM/ton	CFM Watts	875 / 943 132 / 160	891 / 891 179 / 179	892 / 891 224 / 196	880 / 751 265 / 209	854 / 659 300 / 218	290 CFM/ton	CFM Watts	871 125	890 172	894 217	883 259	859 295
	350 CFM/ton	CFM Watts	1045 / 1106 215 / 248	1060 / 1059 270 / 268	1063 / 1004 321 / 285	1055 / 939 369 / 299	1035 / 862 409 / 308	350 CFM/ton	CFM Watts	1040 202	1058 257	1064 310	1059 358	1041 401
3 tons	400 CFM/ton	CFM Watts	1200 / 1257 315 / 354	1212 / 1211 376 / 374	1212 / 1159 432 / 390	1200 / 1099 480 / 402	1129 / 1030 481 / 409	400 CFM/ton	CFM Watts	1291 368	1302 432	1300 487	1220 478	1138 470
	450 CFM/ton	CFM Watts	1358 / 1403 447 / 484	1333 / 1359 482 / 502	1256 / 1308 472 / 517	1177 / 1251 466 / 527	1095 / 1187 460 / 531	450 CFM/ton	CFM Watts	1355 422	1360 483	1286 476	1208 468	1128 462
	290 CFM/ton	CFM Watts	875 / 943 132 / 160	891 / 891 179 / 179	892 / 891 224 / 196	880 / 751 265 / 209	854 / 659 300 / 218	290 CFM/ton	CFM Watts	871 125	890 172	894 217	883 259	859 295

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0A24 Minimum Heating Airflow Settings							
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEABC15LG3	BAYEABC20BK1
TAM9A0A24	638/713	638/900	675/900	600/713	-	-	-

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS

TAM9A0B30 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290	CFM	492 / 581	442 / 397	408 / NA	353 / NA	221 / NA	290	CFM	485	437	393	349	300
	CFM/ton	Watts	22 / 30	45 / 41	71 / NA	98 / NA	129 / NA	CFM/ton	Watts	21	44	69	97	130
	350	CFM	576 / 664	553 / 515	527 / NA	493 / NA	472 / NA	350	CFM	574	545	517	489	457
	CFM/ton	Watts	30 / 40	58 / 54	87 / NA	117 / NA	150 / NA	CFM/ton	Watts	29	56	85	115	146
2 tons †	400	CFM	644 / 730	633 / 598	612 / 403	590 / NA	563 / NA	400	CFM	643	624	605	583	559
	CFM/ton	Watts	38 / 49	70 / 65	102 / 72	134 / NA	167 / NA	CFM/ton	Watts	37	67	99	132	165
	450	CFM	711 / 794	708 / 673	691 / 510	678 / NA	656 / NA	450	CFM	709	698	684	669	649
	CFM/ton	Watts	47 / 60	83 / 77	118 / 86	154 / NA	189 / NA	CFM/ton	Watts	45	80	115	151	186
2.5 tons	290	CFM	627 / 713	611 / 576	589 / 369	568 / NA	542 / NA	290	CFM	625	603	582	559	533
	CFM/ton	Watts	36 / 47	66 / 62	98 / 68	130 / NA	163 / NA	CFM/ton	Watts	35	64	95	127	160
	350	CFM	734 / 815	730 / 698	717 / 541	705 / NA	684 / NA	350	CFM	731	722	710	696	677
	CFM/ton	Watts	51 / 64	87 / 82	124 / 91	161 / NA	197 / NA	CFM/ton	Watts	49	84	120	157	193
2.5 tons	400 †	CFM	822 / 898	824 / 792	817 / 657	811 / NA	797 / NA	400 (a)	CFM	817	815	811	801	788
	CFM/ton	Watts	66 / 81	107 / 101	149 / 112	191 / NA	231 / NA	CFM/ton	Watts	63	103	145	186	226
	450	CFM	910 / 982	916 / 884	916 / 763	914 / 610	904 / NA	450	CFM	902	907	908	904	895
	CFM/ton	Watts	85 / 102	131 / 123	178 / 136	226 / 140	270 / NA	CFM/ton	Watts	80	126	172	219	263
2.5 tons	290	CFM	755 / 860	753 / 749	742 / 606	732 / 397	712 / NA	290	CFM	753	745	735	723	706
	CFM/ton	Watts	54 / 73	92 / 91	130 / 102	168 / 104	205 / NA	CFM/ton	Watts	52	88	126	164	201
	350	CFM	887 / 985	893 / 887	891 / 767	888 / 614	876 / NA	350	CFM	881	884	884	879	868
	CFM/ton	Watts	80 / 102	125 / 124	170 / 137	217 / 141	260 / NA	CFM/ton	Watts	75	120	165	210	253
3 tons	400	CFM	998 / 1094	1010 / 1003	1017 / 895	1018 / 765	1008 / NA	400	CFM	989	1001	1008	1008	1000
	CFM/ton	Watts	107 / 134	160 / 158	213 / 173	266 / 179	315 / NA	CFM/ton	Watts	100	152	205	257	306
	450	CFM	1116 / 1212	1135 / 1126	1147 / 1027	1148 / 911	1134 / NA	450	CFM	1104	1124	1136	1139	1128
	CFM/ton	Watts	143 / 176	205 / 201	267 / 219	325 / 227	376 / NA	CFM/ton	Watts	133	194	255	314	366
3 tons	290	CFM	883 / 981	888 / 882	887 / 762	881 / 608	870 / NA	290	CFM	877	880	879	874	863
	CFM/ton	Watts	79 / 101	124 / 122	169 / 136	214 / 140	257 / NA	CFM/ton	Watts	74	118	164	208	252
	350	CFM	1043 / 1140	1059 / 1051	1068 / 947	1069 / 823	1059 / NA	350	CFM	1034	1049	1058	1061	1053
	CFM/ton	Watts	120 / 150	177 / 174	233 / 190	288 / 197	339 / NA	CFM/ton	Watts	112	168	224	279	330
3 tons	400	CFM	1190 / 1304	1214 / 1221	1226 / 1126	1223 / 1016	1201 / 886	400	CFM	1177	1201	1215	1215	1198
	CFM/ton	Watts	170 / 203	238 / 231	304 / 251	364 / 261	414 / 261	CFM/ton	Watts	157	224	291	352	403
	450	CFM	1355 / 1471	1376 / 1391	1375 / 1302	1353 / 1201	1296 / 1086	450	CFM	1338	1363	1368	1350	1314
	CFM/ton	Watts	241 / 282	318 / 311	386 / 333	441 / 345	472 / 345	CFM/ton	Watts	221	299	369	427	472

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.

- Torque mode will reduce airflow when static is above approximately 0.35" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0B30 Minimum Heating Airflow Settings							
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1
TAM9A0B30	723/808	723/1020	765/1020	680/808	765/1063	850/1105	-

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

TAM9A0C36 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2 tons	290	CFM	605 / 747	573 / 565	553 / 306	548 / NA	546 / NA	290	CFM	606	574	557	551	549
	CFM/ton	Watts	31 / 48	59 / 58	88 / 62	120 / NA	153 / NA	CFM/ton	Watts	31	58	87	119	152
	370	CFM	755 / 880	745 / 738	737 / 575	738 / 367	735 / NA	350	CFM	720	705	695	694	691
	CFM/ton	Watts	50 / 70	85 / 85	121 / 93	160 / 97	197 / NA	CFM/ton	Watts	43	77	111	148	184
2.5 tons	400	CFM	810 / 929	804 / 797	800 / 650	802 / 478	802 / 231	400	CFM	810	805	800	803	802
	CFM/ton	Watts	58 / 80	97 / 96	136 / 106	176 / 111	216 / 120	CFM/ton	Watts	56	95	134	174	214
	450	CFM	900 / 1011	900 / 893	902 / 764	905 / 624	906 / 462	450	CFM	900	900	903	906	907
	CFM/ton	Watts	75 / 98	118 / 117	162 / 129	207 / 136	251 / 140	CFM/ton	Watts	72	115	159	204	248
3 tons	290	CFM	742 / 891	729 / 752	722 / 592	721 / 394	720 / NA	290	CFM	742	731	722	722	720
	CFM/ton	Watts	48 / 72	82 / 87	118 / 96	155 / 99	193 / NA	CFM/ton	Watts	46	81	117	154	191
	370	CFM	922 / 1055	923 / 942	927 / 820	930 / 690	931 / 546	350	CFM	877	877	876	880	880
	CFM/ton	Watts	80 / 109	124 / 128	170 / 142	215 / 150	260 / 154	CFM/ton	Watts	68	110	152	196	239
3 tons †	400	CFM	989 / 1118	995 / 1012	1002 / 899	1008 / 779	1010 / 652	400	CFM	989	995	1000	1008	1008
	CFM/ton	Watts	95 / 127	143 / 148	193 / 163	242 / 173	290 / 177	CFM/ton	Watts	90	139	188	258	285
	450	CFM	1103 / 1228	1117 / 1131	1129 / 1028	1137 / 921	1137 / 809	450	CFM	1102	1116	1127	1137	1138
	CFM/ton	Watts	125 / 162	181 / 185	238 / 203	294 / 215	346 / 221	CFM/ton	Watts	119	175	231	288	340
3.5 tons	290	CFM	872 / 1009	871 / 890	871 / 761	874 / 620	874 / 457	290	CFM	871	872	871	874	875
	CFM/ton	Watts	70 / 97	111 / 116	154 / 128	197 / 135	240 / 139	CFM/ton	Watts	67	109	151	195	237
	370 †	CFM	1089 / 1214	1102 / 1116	1114 / 1013	1121 / 905	1122 / 791	350	CFM	1033	1043	1051	1059	1061
	CFM/ton	Watts	121 / 157	176 / 180	232 / 198	287 / 209	339 / 215	CFM/ton	Watts	101	152	204	257	307
3.5 tons	400	CFM	1175 / 1298	1193 / 1205	1208 / 1107	1215 / 1006	1211 / 899	400 (a)	CFM	1171	1191	1205	1215	1212
	CFM/ton	Watts	147 / 188	208 / 212	270 / 231	329 / 244	382 / 251	CFM/ton	Watts	139	200	262	322	376
	450	CFM	1329 / 1447	1353 / 1361	1366 / 1270	1363 / 1176	1343 / 1077	450	CFM	1324	1349	1364	1364	1347
	CFM/ton	Watts	204 / 253	276 / 279	345 / 299	406 / 313	456 / 321	CFM/ton	Watts	192	264	334	396	448
3.5 tons	290	CFM	1002 / 1131	1009 / 1026	1017 / 914	1023 / 797	1024 / 671	290	CFM	997	1010	1016	1022	1027
	CFM/ton	Watts	98 / 130	147 / 152	198 / 167	248 / 177	296 / 182	CFM/ton	Watts	92	143	197	248	293
	370	CFM	1270 / 1391	1293 / 1302	1308 / 1210	1311 / 1113	1297 / 1012	350	CFM	1196	1217	1231	1241	1234
	CFM/ton	Watts	181 / 227	249 / 252	316 / 272	377 / 286	429 / 293	CFM/ton	Watts	146	210	272	334	387
3.5 tons	400	CFM	1383 / 1499	1407 / 1414	1416 / 1325	1406 / 1233	1380 / 1136	400	CFM	1379	1404	1415	1330	1390
	CFM/ton	Watts	227 / 278	303 / 305	372 / 325	431 / 340	478 / 348	CFM/ton	Watts	214	289	360	378	473
	450	CFM	1579 / 1669	1583 / 1587	1567 / 1502	1474 / 1413	1357 / 1320	450	CFM	1499	1508	1586	1504	1390
	CFM/ton	Watts	326 / 375	402 / 402	464 / 423	475 / 437	468 / 444	CFM/ton	Watts	268	342	460	478	472
<ul style="list-style-type: none"> † Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. 							<ul style="list-style-type: none"> Torque mode will reduce airflow when static is above approximately 0.35" water column. All heating modes default to Constant CFM. Cooling airflow values are with wet coil, no filter 							
TAM9A0C36 Minimum Heating Airflow Settings														
MODEL NO.	BAYEAC04BK1 BAYEAC04LG1 BAYEAC05BK1 BAYEAC05LG1	BAYEAC08BK1 BAYEAC08LG1	BAYEAC10BK1 BAYEAC10LG1	BAYEAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1							
TAM9A0C36	876/979	876/1236	927/1236	824/979	927/1288	1030/1339	1236/1442							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														

TAM9A0C42 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2.5 tons	290	CFM	747 / 905	743 / 764	742 / 591	741 / 342	739 / NA	290	CFM	744	741	740	738	734
		Watts	48 / 77	87 / 94	127 / 102	168 / 106	207 / NA	CFM/ton	51	90	130	170	209	
	370	CFM	937 / 1072	942 / 956	946 / 823	947 / 655	944 / 458	350	CFM	889	892	894	894	890
		Watts	80 / 118	129 / 139	179 / 151	227 / 155	273 / 155	CFM/ton	76	123	169	215	259	
3 tons	400	CFM	1006 / 1136	1014 / 1027	1020 / 903	1022 / 760	1019 / 586	400	CFM	1006	1016	1018	1019	1016
		Watts	95 / 138	148 / 159	201 / 173	253 / 178	302 / 177	CFM/ton	103	156	209	160	308	
	450	CFM	1122 / 1247	1135 / 1146	1143 / 1035	1146 / 911	1142 / 768	450	CFM	1124	1135	1142	1144	1140
		Watts	125 / 176	185 / 200	245 / 216	303 / 224	357 / 223	CFM/ton	136	196	256	313	366	
3.5 tons	290	CFM	885 / 1026	889 / 904	891 / 763	892 / 590	889 / 341	290	CFM	884	887	889	889	885
		Watts	70 / 106	116 / 125	163 / 136	209 / 139	254 / 143	CFM/ton	75	121	168	214	257	
	370	CFM	1108 / 1233	1120 / 1132	1128 / 1019	1131 / 893	1128 / 747	350	CFM	1053	1062	1067	1069	1066
		Watts	121 / 171	181 / 195	240 / 210	297 / 218	350 / 217	CFM/ton	115	171	227	280	330	
3.5 tons †	400	CFM	1194 / 1316	1208 / 1220	1218 / 1115	1221 / 999	1215 / 868	400	CFM	1196	1209	1218	1219	1212
		Watts	147 / 204	212 / 229	276 / 246	337 / 255	393 / 256	CFM/ton	160	225	289	349	403	
	450	CFM	1343 / 1463	1361 / 1374	1371 / 1279	1368 / 1175	1352 / 1061	450	CFM	1347	1363	1371	1366	1342
		Watts	200 / 272	275 / 300	348 / 320	413 / 331	469 / 334	CFM/ton	220	295	367	430	480	
4 tons	290	CFM	1020 / 1149	1028 / 1041	1034 / 919	1037 / 779	1034 / 609	290	CFM	1020	1028	1033	1173	1031
		Watts	99 / 142	152 / 164	206 / 178	259 / 183	308 / 182	CFM/ton	107	160	214	327	315	
	370 †	CFM	1287 / 1408	1304 / 1317	1314 / 1218	1315 / 1110	1304 / 981	350	CFM	1220	1234	1243	1244	1236
		Watts	179 / 245	250 / 272	320 / 291	384 / 301	441 / 303	CFM/ton	169	236	301	362	417	
4 tons	400	CFM	1395 / 1514	1413 / 1427	1421 / 1334	1415 / 1233	1369 / 1124	400 †	CFM	1440	1416	1421	1411	1355
		Watts	221 / 299	300 / 328	374 / 348	440 / 361	480 / 364	CFM/ton	244	322	395	458	475	
	450	CFM	1584 / 1687	1593 / 1605	1576 / 1518	1474 / 1425	1350 / 1326	450	CFM	1589	1592	1545	1434	1315
		Watts	313 / 405	399 / 435	467 / 458	477 / 472	468 / 477	CFM/ton	347	428	474	473	463	
4 tons	290	CFM	1156 / 1302	1169 / 1205	1178 / 1098	1181 / 981	1174 / 848	290	CFM	1157	1169	1177	1179	1174
		Watts	135 / 197	197 / 222	259 / 239	319 / 248	383 / 249	CFM/ton	147	209	271	330	383	
	370	CFM	1487 / 1618	1500 / 1534	1496 / 1445	1445 / 1350	1319 / 1248	350	CFM	1400	1416	1421	1411	1335
		Watts	288 / 359	369 / 389	441 / 411	481 / 425	470 / 429	CFM/ton	244	322	395	458	475	
4 tons	400	CFM	1616 / 1728	1614 / 1646	1543 / 1543	1423 / 1423	1301 / 1301	400	CFM	1615	1615	1545	1431	1313
		Watts	363 / 433	443 / 464	475 / 475	472 / 472	463 / 463	CFM/ton	363	444	474	471	462	
	450	CFM	1711 / 1711	1621 / 1621	1514 / 1514	1393 / 1393	1273 / 1273	450	CFM	1716	1629	1528	1411	1297
		Watts	432 / 432	456 / 456	465 / 465	460 / 460	453 / 453	CFM/ton	430	453	462	458	452	

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.

- Torque mode will reduce airflow when static is above approximately 0.35" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C42 Minimum Heating Airflow Settings							
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1
TAM9A0C42	978/1093	978/1380	1035/1380	920/1093	1035/1438	1150/1495	1380/1610

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

TAM9A0C48 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3 tons	290 CFM/ton	CFM Watts	894 / 1018 69 / 91	900 / 897 114 / 114	896 / 767 157 / 130	886 / 622 195 / 137	871 / 445 229 / 136	290 CFM/ton	CFM Watts	893 72	900 118	893 159	883 197	864 230
	350 CFM/ton	CFM Watts	1067 / 1180 106 / 132	1073 / 1078 158 / 160	1072 / 972 208 / 180	1065 / 859 252 / 192	1053 / 738 292 / 194	350 CFM/ton	CFM Watts	1068 112	1073 164	1070 213	1062 257	1049 295
	400 CFM/ton	CFM Watts	1205 / 1314 145 / 176	1212 / 1222 203 / 206	1213 / 1128 259 / 229	1208 / 1029 309 / 244	1199 / 926 354 / 249	400 CFM/ton	CFM Watts	1207 154	1212 212	1212 266	1206 315	1196 359
	450 CFM/ton	CFM Watts	1343 / 1451 193 / 232	1352 / 1367 259 / 264	1355 / 1280 320 / 289	1353 / 1190 377 / 305	1346 / 1098 427 / 313	450 CFM/ton	CFM Watts	1344 206	1352 270	1354 331	1352 387	1344 436
3.5 tons	290 CFM/ton	CFM Watts	1034 / 1149 98 / 123	1041 / 1044 149 / 150	1038 / 934 197 / 170	1031 / 817 240 / 181	1018 / 690 279 / 182	290 CFM/ton	CFM Watts	1034 103	1040 154	1037 202	1028 244	1014 281
	350 CFM/ton	CFM Watts	1228 / 1336 152 / 185	1235 / 1246 212 / 215	1236 / 1153 268 / 238	1232 / 1056 319 / 253	1224 / 955 365 / 259	350 CFM/ton	CFM Watts	1229 162	1235 221	1236 276	1230 326	1220 371
	400 CFM/ton	CFM Watts	1389 / 1498 212 / 253	1399 / 1415 280 / 286	1403 / 1331 343 / 311	1401 / 1244 402 / 328	1395 / 1154 455 / 336	400 CFM/ton	CFM Watts	1392 226	1400 293	1403 356	1400 413	1394 465
	450 CFM/ton	CFM Watts	1558 / 1669 290 / 343	1570 / 1592 367 / 377	1575 / 1514 439 / 404	1575 / 1434 505 / 422	1568 / 1351 563 / 432	450 CFM/ton	CFM Watts	1561 310	1572 386	1576 457	1574 521	1567 577
4 tons †	290 CFM/ton	CFM Watts	1168 / 1298 133 / 170	1175 / 1205 191 / 200	1175 / 1109 244 / 223	1170 / 1010 293 / 237	1160 / 905 336 / 242	290 CFM/ton	CFM Watts	1168 141	1176 198	1174 251	1168 299	1157 341
	350 † CFM/ton	CFM Watts	1389 / 1517 212 / 262	1399 / 1436 280 / 295	1403 / 1352 343 / 321	1401 / 1266 402 / 338	1395 / 1177 455 / 346	350 CFM/ton	CFM Watts	1392 226	1400 293	1403 356	1400 413	1394 465
	400 CFM/ton	CFM Watts	1583 / 1714 303 / 370	1595 / 1639 382 / 546	1601 / 1562 455 / 431	1600 / 1483 521 / 450	1593 / 1401 580 / 459	400 † CFM/ton	CFM Watts	1586 325	1597 402	1601 474	1599 538	1591 595
	450 CFM/ton	CFM Watts	1790 / 1918 429 / 511	1800 / 184 8515 / 546	1808 / 1775 594 / 573	1793 / 1701 663 / 592	1698 / 1625 660 / 601	450 CFM/ton	CFM Watts	1794 459	1801 544	1800 620	1766 665	1667 655
4.5 tons**	290 CFM/ton	CFM Watts	1301 / 1429 177 / 222	1310 / 1344 241 / 253	1312 / 1256 300 / 278	1309 / 1165 355 / 294	1302 / 1071 404 / 302	290 CFM/ton	CFM Watts	1302 189	1310 252	1311 310	1309 355	1301 403
	350 CFM/ton	CFM Watts	1558 / 1688 290 / 354	1570 / 1613 367 / 389	1575 / 1535 439 / 415	1575 / 1455 505 / 434	1568 / 1373 563 / 444	350 CFM/ton	CFM Watts	1557 290	1570 367	1575 439	1575 505	1569 563
	400 CFM/ton	CFM Watts	1790 / 1918 429 / 511	1800 / 1848 515 / 546	1801 / 1775 594 / 573	1793 / 1701 663 / 592	1698 / 1625 660 / 601	400 CFM/ton	CFM Watts	1789 428	1799 515	1801 594	1794 663	1701 659
	450 CFM/ton	CFM Watts	2018 / 2018 605 / 605	1973 / 1973 656 / 656	1857 / 1857 645 / 645	1749 / 1749 637 / 637	1651 / 1651 631 / 631	450 CFM/ton	CFM Watts	2018 605	1975 656	1863 643	1757 634	1660 628

- † Factory Setting
- ** Not an actual OD size
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.4" water column.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C48 Minimum Heating Airflow Settings								
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1	BAYEACC25BK1
TAM9A0C48	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

TAM9A0C60 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3.5 tons	290 CFM/ton	CFM Watts	1040 / 1151 94 / 119	1068 / 1056 151 / 148	1075 / 941 203 / 168	1066 / 799 247 / 175	1046 / 607 283 / 165	290 CFM/ton	CFM Watts	1039 95	1065 151	1071 203	1063 247	1045 283
	370 CFM/ton	CFM Watts	1312 / 1343 171 / 178	1332 / 1264 236 / 210	1336 / 1174 296 / 235	1329 / 1068 349 / 250	1314 / 945 392 / 251	350 CFM/ton	CFM Watts	1247 150	1266 213	1270 270	1263 321	1248 363
	400 CFM/ton	CFM Watts	1408 / 1496 206 / 238	1425 / 1426 274 / 273	1429 / 1346 337 / 301	1423 / 1256 393 / 319	1410 / 1154 440 / 325	400 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	450 CFM/ton	CFM Watts	1565 / 1650 274 / 312	1579 / 1585 348 / 348	1584 / 1512 416 / 378	1580 / 1432 477 / 398	1569 / 1343 529 / 407	450 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
4 tons	290 CFM/ton	CFM Watts	1186 / 1304 131 / 164	1208 / 1223 192 / 196	1213 / 1128 248 / 220	1206 / 1018 297 / 234	1189 / 887 337 / 233	290 CFM/ton	CFM Watts	1185 131	1206 192	1210 248	1203 297	1187 337
	370 CFM/ton	CFM Watts	1480 / 1514 235 / 245	1495 / 1444 306 / 280	1499 / 1365 372 / 308	1495 / 1277 430 / 327	1482 / 1177 479 / 334	350 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	400 CFM/ton	CFM Watts	1587 / 1689 285 / 332	1602 / 1625 360 / 369	1606 / 1554 429 / 399	1602 / 1475 490 / 420	1592 / 1399 543 / 430	400 CFM/ton	CFM Watts	1587 285	1600 360	1604 428	1601 490	1592 543
	450 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1782 / 1597 671 / 546	450 CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
4.5 tons ***	290 CFM/ton	CFM Watts	1322 / 1431 174 / 211	1340 / 1358 240 / 245	1345 / 1274 300 / 271	1338 / 1179 353 / 288	1323 / 1069 397 / 292	290 CFM/ton	CFM Watts	1321 174	1338 240	1342 300	1336 352	1322 396
	370 † CFM/ton	CFM Watts	1646 / 1667 315 / 320	1660 / 1602 392 / 357	1665 / 1530 463 / 386	1662 / 1451 527 / 407	1653 / 1363 582 / 417	350 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
	400 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1781 / 1597 671 / 546	400 † CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
	450 CFM/ton	CFM Watts	1989 / 2099 535 / 612	2004 / 2042 627 / 650	2012 / 1980 712 / 681	2013 / 1913 788 / 703	2009 / 1842 855 / 716	450 CFM/ton	CFM Watts	1989 534	2003 626	2011 711	2014 788	2011 856
5 tons	290 CFM/ton	CFM Watts	1452 / 1557 224 / 265	1469 / 1489 294 / 301	1473 / 1413 358 / 329	1468 / 1327 415 / 348	1455 / 1231 463 / 356	290 CFM/ton	CFM Watts	1452 224	1467 294	1471 358	1466 415	1454 463
	370 CFM/ton	CFM Watts	1817 / 1826 415 / 451	1831 / 1765 499 / 451	1837 / 1698 576 / 481	1837 / 1624 647 / 503	1831 / 1544 708 / 515	350 CFM/ton	CFM Watts	1723 357	1736 437	1741 511	1740 578	1734 636
	400 CFM/ton	CFM Watts	1964 / 2073 516 / 590	1978 / 2015 607 / 629	1986 / 1953 690 / 660	1987 / 1886 766 / 682	1983 / 1814 832 / 695	400 CFM/ton	CFM Watts	1964 515	1978 606	1985 690	1988 766	1985 833
	450 CFM/ton	CFM Watts	2231 / 2347 741 / 842	2245 / 2292 842 / 879	2252 / 2233 934 / 908	2252 / 2171 1015 / 930	2185 / 2104 1024 / 941	450 CFM/ton	CFM Watts	2232 741	2245 842	2252 934	2252 1016	2186 1023

- † Factory Setting
- ** Not an actual OD size
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.4" water column.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TAM9A0C60 MINIMUM HEATING AIRFLOW CFM — HEATER MATRIX								
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1	BAYEACC25BK1
TAM9A0C60	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Trane

Model: TEM4A

Minimum Airflow CFM

TEM4A0B18S21SB, TEM4A0B24S21SB		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Med	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Med	Low

TEM4A0B19M21SA		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	High	Med

TEM4A0B30S31SB, TEM4A0B36S31SB		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1517BRK	Med	Low
BAYHTR3517LUG	High	Low

TEM4A0B31M31SA		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG	Med-High	Med-Low
BAYHTR1517BRK, BAYHTR3517LUG, BAYHTR3510LUG	High	Med

TEM4A0C37S31SB		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1517BRK	Low	Low
BAYHTR1523BRK	High	High
BAYHTR3517LUG	Low	Low

Minimum Airflow CFM

TEM4A0C42S41SB		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1517BRK	Low	Low
BAYHTR1523BRK	Med	Low
BAYHTR3517LUG	Low	Low

TEM4A0C43M41SA		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG	Med-High	Med-Low
BAYHTR1523BRK	Med-High	Med
BAYHTR1517BRK, BAYHTR3517LUG, BAYHTR3510LUG	High	Med

TEM4A0C48S41SB, TEM4A0C60S51SB		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1517BRK	Low	Low
BAYHTR1523BRK	Low	Low
BAYHTR1525BRK	Low	Low
BAYHTR3517LUG	Low	Low

TEM4A0C49M41SA, TEM4A0C61M51SA		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG, BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG, BAYHTR3510LUG	Med-Low	Med-Low
BAYHTR1517BRK, BAYHTR3517LUG	Med	Med
BAYHTR1523BRK, BAYHTR1525BRK	Med-High	Med

Air Handler and Heater Matrix Allowable Combinations

Table 1. TEM4 MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX

Model No.	BAYHTR1504BRK * BAYHTR1504PDC * BAYHTR1504LUG * BAYHTR1505BRK * BAYHTR1505PDC * BAYHTR1505LUG *	BAYHTR1508BRK * BAYHTR1508PDC * BAYHTR1508LUG * BAYHTR1510BRK * BAYHTR1510PDC * BAYHTR1510LUG * BAYHTR3510LUG *	BAYHTR1517BRK *	BAYHTR1523BRK *	BAYHTR1525BRK *	BAYHTR3517LUG *
TEM4A0B18S21SB *	L / M	L / M	--	--	--	--
TEM4A0B19M21SA *	L / L	M / H	--	--	--	--
TEM4A0B24S21SB *	L / M	L / M	--	--	--	--
TEM4A0B30S31SB *	L / L	L / L	L / M	--	--	L / H
TEM4A0B31M31SA *	L / L	M-L / M-H	M / H	--	--	M / H
TEM4A0B36S31SB *	L / L	L / L	L / M	--	--	L / H
TEM4A0C37S31SB *	L / L	L / L	L / L	H / H	--	L / L
TEM4A0C42S41SB *	L / L	L / L	L / L	L / M	--	L / L
TEM4A0C43M41SA *	L / L	M-L / M-H	M / H	M / M-H	--	M / H
TEM4A0C48S41SB *	L / L	L / L	L / L	L / L	L / L	L / L
TEM4A0C49M41SA *	M-L / M-L	M-L / M-L	M / M	M / M-H	M / M-H	M / M
TEM4A0C60S51SB *	L / L	L / L	L / L	L / L	L / L	L / L
TEM4A0C61M51SA *	M-L / M-L	M-L / M-L	M / M	M / M-H	M / M-H	M / M

1. Cooling / HP Airflow
2. * = Followed by two digits

Table 2. Air Flow Performance

TEM4A0B18S21SB, TEM4A0B24S21SB ^(a)						
EXTERNAL STATIC (in w.g)	AIRFLOW					
	Speed Taps — 230 VOLTS			Speed Taps — 208 VOLTS		
	High	Med	Low †	High	Med	Low †
0.1	1094	927	773	1052	849	658
0.2	1032	880	735	990	807	624
0.3	955	818	678	915	750	578
0.4	864	739	601	826	679	518
0.5	759	645	505	723	591	441
0.6	639	534	389	606	490	
0.7	505	408		476	374	

1. Values are with wet coil, no filter, and no heaters
2. CFM Correction for dry coil = Add 3%
3. † = Factory setting

^(a) For the TEM4A0B24S21SB, the recommended speed tap is medium at 0.4" external static pressure.

Table 4. Air Flow Performance

TEM4A0B19M21SA				
EXTERNAL STATIC (in w.g)	AIRFLOW			
	Speed Taps — 208 – 230 VOLTS			
	High	Med-High	Med †	Low
0.1	860	773	652	589
0.2	817	732	589	528
0.3	767	679	515	445
0.4	709	612	431	339
0.5	644	533	336	210
0.6	571	441	232	
0.7	491	336	116	

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory Setting
 4. Low = Taps 1-2, Med = Tap 3, Med-High= Tap 4, High = Tap 5

Table 6. Air Flow Performance

TEM4A0B30S31SB, TEM4A0B36S31SB						
EXTERNAL STATIC (in w.g)	AIRFLOW					
	Speed Taps — 230 VOLTS			Speed Taps — 208 VOLTS		
	High	Med	Low †	High	Med	Low †
0.1	1391	1305	1059	1338	1146	902
0.2	1305	1231	1029	1257	1098	868
0.3	1203	1138	970	1159	1027	817
0.4	1083	1027	884	1044	935	753
0.5	948	899	769	913	823	664
0.6	795	752	626	766	692	
0.7	626	587		603	542	

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory setting
 4. In downflow applications, airflow must not exceed 1200 cfm due to condensate blowoff.

Table 8. Air Flow Performance

TEM4A0B31M31SA					
EXTERNAL STATIC (in w.g)	AIRFLOW				
	Speed Taps — 208 – 230 VOLTS				
	High	Med-High	Med †	Med-Low	Low
0.1	1072	985	901	820	661
0.2	1028	940	863	774	605
0.3	983	893	820	722	540
0.4	938	845	772	666	465
0.5	891	795	719	605	381
0.6	844	744	661	539	288
0.7	796	691	598	468	

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory Setting
 4. In downflow applications, airflow must not exceed 1200 cfm due to condensate blowoff.
 5. Low = Tap 1, Med-Low = Tap 2, Med = Tap 3, Med-High= Tap 4, High = Tap 5

Table 10. Air Flow Performance

TEM4A0C37S31SB						
EXTERNAL STATIC (in w.g)	AIRFLOW					
	Speed Taps — 230 VOLTS			Speed Taps — 208 VOLTS		
	High	Med	Low †	High	Med	Low †
0.1	1723	1356	1254	1651	1211	1129
0.2	1682	1340	1259	1631	1216	1123
0.3	1605	1291	1228	1572	1188	1096
0.4	1492	1211	1162	1474	1127	1047
0.5	1343	1100	1059	1336	1032	977
0.6	1158	957	919	1159	905	886
0.7	998	782		942	744	

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory setting
 4. The recommended speed tap is low at 0.5" external static pressure.
 5. In downflow applications, airflow must not exceed 1600 cfm due to condensate blowoff.

Table 12. Air Flow Performance

TEM4A0C42S41SB			
EXTERNAL STATIC (in w.g)	AIRFLOW		
	Speed Taps — 208–230 VOLTS		
	High	Med	Low †
0.1	1623	1509	1403
0.2	1583	1465	1357
0.3	1539	1420	1309
0.4	1494	1373	1260
0.5	1450	1326	1211
0.6	1399	1276	1159
0.7	1353	1223	1102

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory setting
 4. Low = Taps 1–3, Med = Tap 4, High = Tap 5
 5. In downflow applications, airflow must not exceed 1600 cfm due to condensate blowoff.

Table 14. Air Flow Performance

TEM4A0C43M41SA					
EXTERNAL STATIC (in w.g)	AIRFLOW				
	Speed Taps — 208 – 230 VOLTS				
	High	Med-High	Med †	Med-Low	Low
0.1	1491.6	1418.1	1302.5	1267.8	1140.4
0.2	1459.7	1384.7	1266.3	1230.1	1096.4
0.3	1425.8	1349.2	1227.8	1189.7	1050.3
0.4	1389.8	1311.3	1187.0	1146.8	1002.1
0.5	1351.6	1271.3	1144.0	1101.4	951.7
0.6	1311.4	1229.0	1098.7	1053.3	899.3
0.7	1269.1	1184.4	1051.1	1002.7	844.7

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory Setting
 4. In downflow applications, airflow must not exceed 1600 cfm due to condensate blowoff.
 5. Low = Tap 1, Med-Low = Tap 2, Med = Tap 3, Med-High = Tap 4, High = Tap 5

Table 16. Air Flow Performance

TEM4A0C48S41SB			
EXTERNAL STATIC (in w.g)	AIRFLOW		
	Speed Taps — 208-230 VOLTS		
	High	Med	Low †
0.1	1784	1698	1634
0.2	1748	1662	1595
0.3	1715	1627	1559
0.4	1682	1591	1521
0.5	1650	1558	1488
0.6	1618	1525	1455
0.7	1499	1494	1422

1. Values are with wet coil, no filter, and no heaters
 2. CFM Correction for dry coil = Add 3%
 3. † = Factory setting
 4. Low = Taps 1-3, Med = Tap 4, High = Tap 5
 5. In downflow applications, airflow must not exceed 1600 cfm due to condensate blowoff.

Table 18. Air Flow Performance

TEM4A0C49M41SA, TEM4A0C61M51SA					
EXTERNAL STATIC (in w.g)	AIRFLOW				
	Speed Taps — 208 – 230 VOLTS				
	High	Med-High	Med †	Med-Low	Low
0.1	1954.3	1790.6	1578.2	1546.0	1296.6
0.2	1908.4	1733.6	1520.4	1487.4	1223.5
0.3	1860.4	1676.3	1461.2	1427.0	1150.5
0.4	1810.3	1618.9	1400.5	1364.8	1077.4
0.5	1758.1	1561.2	1338.5	1300.6	1004.3
0.6	1703.8	1503.2	1275.1	1234.5	931.3
0.7	1647.4	1445.1	1210.2	1166.6	858.2

1. Values are with wet coil, no filter, and no heaters
2. CFM Correction for dry coil = Add 3%
3. † = Factory Setting
4. In downflow applications, airflow must not exceed 1600 cfm due to condensate blowoff.
5. Low = Tap 1, Med-Low = Tap 2, Med = Tap 3, Med-High = Tap 4, High = Tap 5

Table 20. Air Flow Performance

TEM4A0C60S51SB			
EXTERNAL STATIC (in w.g)	AIRFLOW		
	Speed Taps — 208 – 230 VOLTS		
	High	Med †	Low
0.1	1836	1744	1665
0.2	1790	1698	1612
0.3	1743	1650	1560
0.4	1694	1601	1509
0.5	1644	1550	1457
0.6	1593	1499	1406
0.7	1540	1447	1355

1. Values are with wet coil, no filter, and no heaters
2. CFM Correction for dry coil = Add 3%
3. † = Factory Setting
4. Low = Taps 1-3, Med = Tap 4, High = Tap 5
5. BAYTEMDFKT1A must be used for downflow applications and airflow must not exceed 1800 cfm.

Manufacturer: Trane

Model: TEM6A

7. Blower

This unit is supplied with a variable speed motor with a direct drive blower wheel which can obtain various air flows. The unit is shipped with factory set cooling and heating air flows. Performance tables are available for additional airflow settings. Disconnect all power to the unit before making any adjustments to the airflow settings. Be sure to check the air flow and the temperature drop across the evaporator coil to ensure sufficient air flow.

8. Airflow Adjustment

⚠ CAUTION

EQUIPMENT DAMAGE!

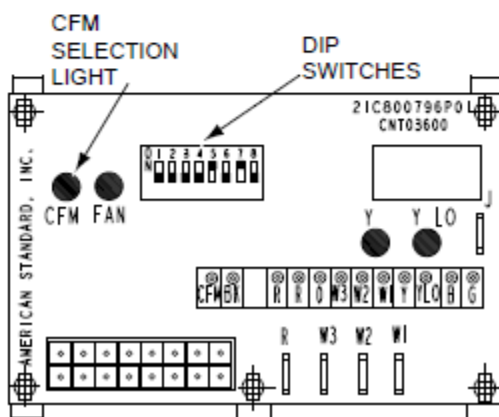
Failure to follow this procedure may result in equipment damage.

Disconnect power to the air handler before changing dip switch positions.

Blower speed changes are made on the ECM Fan Control. The ECM Fan Control controls the variable speed motor.

There is a bank of 8 dip switches. The dip switches work in pairs to match the airflow for the outdoor unit size (tons). cooling airflow adjustment, Fan off-delay options, and heating airflow adjustment. The switches appear as shown in Figure 2, p. 7

Figure 1. ECM Fan Control



TEM6A0B24H21SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ton	ON	ON	OFF	ON	CFM Watts	533 52	497 78	461 104	425 130	390 157
	NORMAL	401 CFM/ton	ON	ON	OFF	OFF	CFM Watts	611 65	580 95	548 125	517 155	486 185
	HIGH	451 CFM/ton	ON	ON	ON	OFF	CFM Watts	684 81	668 115	644 148	611 182	570 215
2	LOW	343 CFM/ton	OFF	ON	OFF	ON	CFM Watts	687 82	672 115	648 149	614 182	571 215
	NORMAL	390 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	789 104	798 145	780 183	735 216	663 246
	HIGH	439 CFM/ton	OFF	ON	ON	OFF	CFM Watts	884 135	887 177	882 230	845 274	751 290
2.5	LOW	300 CFM/ton	ON	OFF	OFF	ON	CFM Watts	752 92	749 123	729 167	691 211	636 241
	NORMAL (a)	340 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	859 128	861 172	863 211	830 242	727 268
	HIGH	383 CFM/ton	ON	OFF	ON	OFF	CFM Watts	963 172	973 223	995 263	967 291	844 308

(a) Factory Default Setting

Table 5. Air Flow Performance

TEM6A0B24H21SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ton	ON	ON	OFF	ON	CFM Watts	599 58	571 88	539 117	502 146	462 175
	NORMAL	448 CFM/ton	ON	ON	OFF	OFF	CFM Watts	680 72	665 109	641 145	610 178	572 209
	HIGH	493 CFM/ton	ON	ON	ON	OFF	CFM Watts	748 89	746 118	682 163	545 208	326 240
2	LOW	393 CFM/ton	OFF	ON	OFF	ON	CFM Watts	785 97	790 128	773 175	735 223	674 253
	NORMAL	446 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	904 131	902 179	912 219	894 253	809 281
	HIGH	491 CFM/ton	OFF	ON	ON	OFF	CFM Watts	980 167	972 216	990 268	974 308	863 324
2.5	LOW	350 CFM/ton	ON	OFF	OFF	ON	CFM Watts	866 125	870 162	866 215	833 263	750 286
	NORMAL (a)	398 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	995 171	988 222	1005 271	986 309	872 325
	HIGH	437 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1099 220	1086 274	1098 328	1065 362	918 353

TEM6A0B30H21SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ton	ON	ON	OFF	ON	CFM Watts	533 52	497 78	461 104	425 130	390 157
	NORMAL	401 CFM/ton	ON	ON	OFF	OFF	CFM Watts	611 65	580 95	548 125	517 155	486 185
	HIGH	451 CFM/ton	ON	ON	ON	OFF	CFM Watts	684 81	668 115	644 148	611 182	570 215
2	LOW	343 CFM/ton	OFF	ON	OFF	ON	CFM Watts	687 82	672 115	648 149	614 182	571 215
	NORMAL	390 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	789 104	798 145	780 183	735 216	663 246
	HIGH	439 CFM/ton	OFF	ON	ON	OFF	CFM Watts	884 135	887 177	882 230	845 274	751 290
2.5	LOW	300 CFM/ton	ON	OFF	OFF	ON	CFM Watts	752 92	749 123	729 167	691 211	636 241
	NORMAL	340 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	859 128	861 172	863 211	830 242	727 268
	HIGH	383 CFM/ton	ON	OFF	ON	OFF	CFM Watts	963 172	973 223	995 263	967 291	844 308
3	LOW	310 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	913 119	947 172	962 233	938 297	883 364
	NORMAL ^(*)	330 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	967 138	1004 194	1022 258	1000 326	947 397

(*) Factory Default Setting

Table 7. Air Flow Performance

TEM6A0B30H21SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ton	ON	ON	OFF	ON	CFM Watts	599 58	571 88	539 117	502 146	462 175
	NORMAL	448 CFM/ton	ON	ON	OFF	OFF	CFM Watts	680 72	665 109	641 145	610 178	572 209
	HIGH	493 CFM/ton	ON	ON	ON	OFF	CFM Watts	748 89	746 118	682 163	545 208	326 240
2	LOW	393 CFM/ton	OFF	ON	OFF	ON	CFM Watts	785 97	790 128	773 175	735 223	674 253
	NORMAL	446 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	904 131	902 179	912 219	894 253	809 281
	HIGH	491 CFM/ton	OFF	ON	ON	OFF	CFM Watts	980 167	972 216	990 268	974 308	863 324
2.5	LOW	350 CFM/ton	ON	OFF	OFF	ON	CFM Watts	866 125	870 162	866 215	833 263	750 286
	NORMAL	398 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	995 171	988 222	1005 271	986 309	872 325
	HIGH	437 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1099 220	1086 274	1098 328	1065 362	918 353
3	LOW	325 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	953 133	990 188	1007 251	985 318	931 389
	NORMAL ^(*)	346 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1010 154	1049 212	1066 279	1047 350	1000 426

TEM6A0C36H31SB, TEM6A0C42H41SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
2.5	LOW	300 CFM/ton	ON	ON	OFF	ON	CFM Watts	761 63	755 98	719 131	654 163	560 193
	NORMAL	341 CFM/ton	ON	ON	OFF	OFF	CFM Watts	862 82	861 120	834 158	781 196	700 235
	HIGH	384 CFM/ton	ON	ON	ON	OFF	CFM Watts	962 106	963 147	948 190	915 234	863 279
3	LOW	319 CFM/ton	OFF	ON	OFF	ON	CFM Watts	961 106	962 147	947 189	914 233	862 279
	NORMAL	363 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1092 146	1093 192	1082 240	1060 288	1026 337
	HIGH	408 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1231 196	1231 249	1221 301	1203 353	1175 404
3.5	LOW	315 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1104 150	1105 197	1094 245	1072 293	1039 343
	NORMAL	357 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1258 209	1258 263	1248 317	1229 369	1201 421
	HIGH	402 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1418 286	1415 347	1401 406	1379 462	1348 516
4	LOW	308 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1238 199	1238 253	1229 306	1210 357	1182 408
	NORMAL ^(*)	350 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1412 282	1410 344	1398 404	1378 462	1349 517
	HIGH	394 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1570 393	1528 436	1473 466	1406 483	1326 488

(*) Factory Default Setting

Table 9. Air Flow Performance

TEM6A0C36H31SB, TEM6A0C42H41SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
2.5	LOW	341 CFM/ton	ON	ON	OFF	ON	CFM Watts	860 77	863 115	838 154	788 193	707 232
	NORMAL	379 CFM/ton	ON	ON	OFF	OFF	CFM Watts	949 98	953 138	937 180	906 224	852 269
	HIGH	417 CFM/ton	ON	ON	ON	OFF	CFM Watts	1042 122	1046 166	1036 212	1015 259	980 308
3	LOW	381 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1147 154	1149 203	1141 253	1123 303	1094 353
	NORMAL	424 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1277 204	1279 259	1272 314	1255 368	1228 421
	HIGH	466 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1409 260	1409 323	1401 383	1384 442	1357 500
3.5	LOW	348 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1222 180	1224 232	1216 285	1200 336	1174 388
	NORMAL	386 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1361 240	1362 300	1354 358	1337 415	1310 471
	HIGH	425 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1497 316	1478 372	1449 420	1408 461	1356 494
4	LOW	338 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1360 239	1361 299	1353 358	1336 415	1309 470
	NORMAL ^(*)	375 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1511 325	1489 380	1456 426	1412 464	1355 493
	HIGH	413 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1659 420	1605 463	1535 488	1450 494	1349 483

(*) Factory Default Setting

TEM6A0C48H41SB, TEM6A0C60H51SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	324 CFM/ton	ON	ON	OFF	ON	CFM Watts	991 89	985 133	974 186	984 237	994 303
	NORMAL	368 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1120 118	1119 167	1110 224	1116 279	1122 333
	HIGH	423 CFM/ton	ON	ON	ON	OFF	CFM Watts	1282 162	1286 219	1281 280	1280 343	1282 402
3.5	LOW	314 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1116 117	1114 165	1105 222	1111 277	1117 331
	NORMAL	357 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1263 156	1266 212	1261 273	1261 334	1263 392
	HIGH	411 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1449 218	1458 287	1456 352	1449 421	1447 496
4	LOW	298 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1207 140	1208 193	1201 252	1203 311	1207 366
	NORMAL	339 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1368 190	1374 252	1370 315	1367 381	1367 448
	HIGH	389 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1564 264	1577 343	1577 411	1567 484	1561 570
5	LOW	305 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1534 251	1545 328	1545 394	1536 467	1531 550
	NORMAL ^(a)	347 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1740 344	1758 444	1762 518	1745 594	1734 684
	HIGH ^(b)	399 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1995 484	2022 629	2030 717	2005 783	1987 828

^(a) Factory Default Setting

^(b) Airflow must not exceed 1800 cfm in horizontal right, horizontal left, and downflow applications due to condensate blowoff. The 5 ton high tap shall not be used in these applications.

Table 11. Air Flow Performance

TEM6A0C48H41SB, TEM6A0C60H51SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	360 CFM/ton	ON	ON	OFF	ON	CFM Watts	1097 112	1094 160	1086 216	1092 271	1099 326
	NORMAL	400 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1215 142	1216 196	1210 255	1211 314	1215 369
	HIGH	440 CFM/ton	ON	ON	ON	OFF	CFM Watts	1333 178	1338 238	1333 300	1331 365	1332 428
3.5	LOW	348 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1232 147	1234 202	1228 261	1229 322	1233 377
	NORMAL	387 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1366 189	1373 252	1369 314	1366 381	1365 447
	HIGH	426 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1500 238	1511 311	1510 377	1502 449	1498 529
4	LOW	338 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1364 188	1370 251	1366 313	1363 379	1363 446
	NORMAL	375 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1509 241	1520 315	1519 382	1511 453	1506 535
	HIGH	413 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1659 305	1674 395	1676 466	1662 541	1654 632
5	LOW	326 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1637 295	1652 383	1653 453	1641 528	1632 618
	NORMAL ^(a)	362 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1814 381	1834 493	1839 570	1820 645	1807 730
	HIGH	398 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1990 481	2017 625	2025 713	2000 779	1982 826

TEM6A0D48H41SB, TEM6A0D60H51SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	323 CFM/ton	ON	ON	OFF	ON	CFM Watts	979 87	978 126	959 170	922 217	867 269
	NORMAL	367 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1111 124	1113 168	1101 215	1075 265	1036 317
	HIGH	415 CFM/ton	ON	ON	ON	OFF	CFM Watts	1252 165	1259 214	1254 264	1239 314	1212 364
3.5	LOW	315 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1111 124	1113 168	1101 215	1075 265	1036 317
	NORMAL	358 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1259 167	1266 217	1261 267	1246 317	1220 368
	HIGH	404 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1419 223	1428 279	1425 334	1411 389	1386 444
4	LOW	309 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1241 161	1248 210	1243 259	1227 309	1201 359
	NORMAL	351 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1407 218	1416 273	1413 328	1399 383	1373 437
	HIGH	396 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1583 296	1593 359	1594 422	1586 485	1570 547
5	LOW	295 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1478 249	1487 307	1486 365	1474 423	1452 481
	NORMAL ^(*)	335 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1671 344	1681 412	1684 479	1678 545	1635 565
	HIGH	379 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1880 476	1892 556	1900 635	1902 714	1760 650

(*) Factory Default Setting

Table 13. Air Flow Performance

TEM6A0D48H41SB, TEM6A0D60H51SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
3	LOW	360 CFM/ton	ON	ON	OFF	ON	CFM Watts	1087 111	1091 153	1081 199	1055 249	1015 301
	NORMAL	400 CFM/ton	ON	ON	OFF	OFF	CFM Watts	1205 139	1213 186	1211 234	1198 283	1173 333
	HIGH	440 CFM/ton	ON	ON	ON	OFF	CFM Watts	1322 175	1333 227	1332 279	1321 332	1297 384
3.5	LOW	347 CFM/ton	OFF	ON	OFF	ON	CFM Watts	1219 143	1228 191	1226 240	1213 289	1189 339
	NORMAL	386 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	1351 184	1363 237	1363 290	1351 344	1328 397
	HIGH	424 CFM/ton	OFF	ON	ON	OFF	CFM Watts	1482 232	1495 291	1497 349	1489 408	1471 466
4	LOW	351 CFM/ton	ON	OFF	OFF	ON	CFM Watts	1405 201	1417 256	1418 311	1408 367	1385 422
	NORMAL	390 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	1555 262	1568 323	1572 385	1567 447	1553 509
	HIGH	429 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1703 334	1717 403	1723 472	1722 540	1665 560
5	LOW	327 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1625 294	1639 359	1644 424	1641 489	1630 554
	NORMAL ^(*)	363 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1797 384	1812 459	1820 533	1822 606	1750 615
	HIGH	400 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1970 495	1986 581	1999 667	2010 740	1910 680

Minimum Airflow CFM

TEM6A0B24H21SB, TEM6A0B30H21SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	660	600
BAYHTR1508BRK, BAYHTR1508LUG	780	600
BAYHTR1510BRK, BAYHTR1510LUG	780	600
BAYHTR1517BRK	1050	850
BAYHTR3510LUG	780	600
BAYHTR3517LUG	900	850

TEM6A0C36H31SB, TEM6A0C42H41SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	875	675
BAYHTR1508BRK, BAYHTR1508LUG	950	820
BAYHTR1510BRK, BAYHTR1510LUG	1000	820
BAYHTR1517BRK	1000	820
BAYHTR3510LUG	875	820
BAYHTR3517LUG	1000	950
BAYHTR1523BRK	1300	1140

TEM6A0C48H41SB, TEM6A0C60H51SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	1200	975
BAYHTR1508BRK, BAYHTR1508LUG	1350	975
BAYHTR1510BRK, BAYHTR1510LUG	1350	975
BAYHTR1517BRK	1365	975
BAYHTR3510LUG	1300	975
BAYHTR3517LUG	1365	1120
BAYHTR1523BRK	1365	1300
BAYHTR1525BRK	1810	1505

TEM6A0D48H41SB, TEM6A0D60H51SB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	1150	975
BAYHTR1508BRK, BAYHTR1508LUG	1150	975
BAYHTR1510BRK, BAYHTR1510LUG	1150	975
BAYHTR1517BRK	1300	1125
BAYHTR3510LUG	1150	975
BAYHTR3517LUG	1300	1125
BAYHTR1523BRK	1380	1125
BAYHTR1525BRK	1550	1345

TEM6A0B24H21SB, TEM6A0B30H21SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	601	
Med-Lo	OFF	ON	661	
Med-Hi	ON	OFF	781	
High	OFF	OFF	973	

TEM6A0C36H31SB, TEM6A0C42H41SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	696	
Med-Lo	OFF	ON	825	
Med-Hi	ON	OFF	1150	
High	OFF	OFF	1298	

TEM6A0C48H41SB, TEM6A0C60H51SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	1000	
Med-Lo	OFF	ON	1130	
Med-Hi	ON	OFF	1354	
High	OFF	OFF	1596	

TEM6A0D48H41SB, TEM6A0D60H51SB Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	997	
Med-Lo	OFF	ON	1129	
Med-Hi	ON	OFF	1350	
High	OFF	OFF	1597	

Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR1517	3
1200	0.01	0.04	0.05	0.10	BAYHTR3510	3
1100	0.01	0.03	0.05	0.09	BAYHTR3517	3
1000	0.01	0.03	0.04	0.09	BAYHTR3515	3
900	0.01	0.03	0.04	0.08	BAYHTR1522	4
800	0.01	0.03			BAYHTR1523	4
700	0.01	0.02			BAYHTR1525	4
600	0.01	0.02				

Subcooling Adjustment

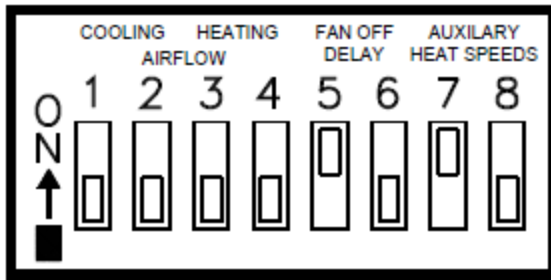
System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM6A0C36H31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM6A0B24H21 TEM6A0B30H21	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM6A0B30H21 TEM6A0C36H31 TEM6A0C42H41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees

All other matches must be charged per the nameplate charging instructions

Subcooling Adjustment for TEM6A0C48H41 & TEM6A0C60H51

Sub-Cooling Charge Specification For AHRI Rated Performance		
OD Equipment	Up Flow / Horizontal	Down Flow
AC UNIT	OD Name Plate	OD Name Plate
HP UNIT ≤ 3.5 Tons	OD Name Plate	OD Name Plate + 4 Degrees
HP UNIT = 4 and 5 Tons	OD Name Plate	OD Name Plate

Figure 2. Dip Switches



DIP SWITCHES (TYPICAL SETTINGS)

If the airflow needs to be increased or decreased, see the Airflow Label on the air handler or Blower Performance Table.

Be sure to set the correct airflow for cooling and heating.

Switches 1–4 Cooling Airflow

Switches 5–6 Fan Off Delay Options

Switches 7–8 Auxiliary Heat

Indoor Blower Timing

Important: Leave dip switches 5 and 6 in the “as-shipped” positions during system start-up and check out. Afterwards, adjust as desired.

Table 3. Cooling Off – Delay Options

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
5 – OFF	6 – OFF	NONE	SAME
5 – ON	6 – OFF	1.5 MINUTES	100% ^(a)
5 – OFF	6 – ON	3 MINUTES	50%
5 – ON	6 – ON	ENHANCED ^(b)	50–100%

^(a) Default setting

^(b) This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph shows the ramping process.

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: Trane

Model: TEM8A

7. Blower

This unit is supplied with a variable speed motor with a direct drive blower wheel which can obtain various air flows. The unit is shipped with factory set cooling and heating air flows. Performance tables are available for additional airflow settings. Disconnect all power to the unit before making any adjustments to the airflow settings. Be sure to check the air flow and the temperature drop across the evaporator coil to ensure sufficient air flow.

8. Airflow Adjustment

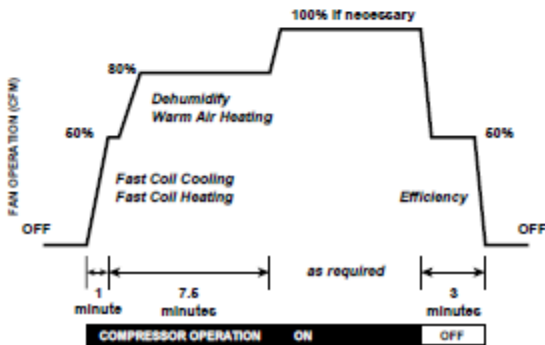
Note: A CDA tool may be plugged into the TEM8 control board and used to configure or monitor the system

9. Indoor Blower Timing

Table 3. Delay Options

The blower delay profile is to be configured for heating and cooling modes of operation. There are 4 blower off delay options	
Option 1	90 seconds at 100% air flow
Option 2	No delay
Option 3	180 seconds at 50% air flow
Option 4	Enhanced Mode

Figure 1. Enhanced Mode



Unit Test Mode

Unit Test Mode will exit if any demand is given to the unit.

To enter Unit Test Mode:

1. Set System Switch on comfort control to Off.
2. Scroll down to the Unit Test selection and push the "Enter" button.

Sequence of Unit Test Mode (OD unit is not energized during the Unit Test Mode)

1. AFC energizes the blower at 50% and then continues to ramp until it reaches 100% cooling airflow.
2. Humidifier contacts close when the blower starts.
3. AFC energizes the W relays in 10 second intervals. The blower remains at 100% air flow.
4. All relays de-energize and the blower shuts off five seconds after the last bank of heat is energized.

Note: *If an error occurs during the Unit Test Mode, the Fault LED will flash a code and continue the test.*

Performance and Electrical Data

TEM8A0B24V21DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	430 / 538 50 / 39	430 / 415 75 / 48	430 / 264 95 / 43	430 / NA 110 / NA	430 / NA 145 / NA	290 CFM/ton	CFM Watts	434 34	419 64	419 96	403 130	384 167
	350 CFM/ton	CFM Watts	520 / 620 60 / 53	520 / 514 90 / 64	520 / 398 120 / 61	520 / NA 135 / NA	510 / NA 175 / NA	350 CFM/ton	CFM Watts	521 44	512 77	514 112	500 153	485 196
	400 CFM/ton	CFM Watts	590 / 688 75 / 67	590 / 593 105 / 80	590 / 493 140 / 80	590 / NA 160 / NA	590 / NA 205 / NA	400 CFM/ton	CFM Watts	595 56	589 91	595 127	584 173	573 222
	450 CFM/ton	CFM Watts	670 / 758 85 / 85	670 / 671 125 / 100	660 / 581 160 / 102	660 / NA 190 / NA	660 / NA 235 / NA	450 CFM/ton	CFM Watts	668 71	667 107	675 145	668 196	660 250
2 tons	290 CFM/ton	CFM Watts	570 / 670 60 / 63	570 / 573 90 / 76	570 / 469 125 / 75	570 / NA 165 / NA	568 / NA 215 / NA	290 CFM/ton	CFM Watts	575 53	569 87	573 123	561 167	549 215
	350 CFM/ton	CFM Watts	690 / 781 85 / 91	690 / 696 120 / 107	690 / 609 160 / 110	690 / 518 210 / 98	680 / NA 259 / NA	350 CFM/ton	CFM Watts	693 76	693 113	702 152	696 204	689 259
	400 CFM/ton	CFM Watts	790 / 875 110 / 122	790 / 798 150 / 140	790 / 720 195 / 145	780 / 639 250 / 137	780 / 555 301 / 115	400 CFM/ton	CFM Watts	791 103	795 143	805 184	803 240	798 301
	450 CFM/ton	CFM Watts	890 / 971 145 / 161	890 / 899 185 / 181	880 / 827 235 / 189	880 / 754 295 / 184	880 / 680 347 / 184	450 CFM/ton	CFM Watts	889 138	895 181	902 226	899 284	891 347
2.5 tons †	290 CFM/ton	CFM Watts	720 / 823 90 / 104	720 / 741 140 / 120	710 / 659 170 / 124	710 / 573 220 / 115	710 / 481 260 / 91	290 CFM/ton	CFM Watts	717 82	718 120	728 159	723 212	717 269
	350 CFM/ton	CFM Watts	870 / 963 140 / 157	860 / 892 182 / 177	873 / 819 235 / 185	860 / 746 280 / 180	850 / 671 330 / 161	350 CFM/ton	CFM Watts	865 128	871 170	879 214	876 272	869 335
	390 † CFM/ton	CFM Watts	958 / 1075 147 / 170	975 / 1000 203 / 195	946 / 878 269 / 211	871 / 711 342 / 197	802 / 617 403 / 189	390 † CFM/ton	CFM Watts	958 138	979 192	957 257	878 336	822 406
	400 CFM/ton	CFM Watts	980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	400 CFM/ton	CFM Watts	980 146	998 202	969 268	882 351	821 422
	450 CFM/ton	CFM Watts	980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	450 CFM/ton	CFM Watts	980 146	998 202	969 268	882 351	821 422

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- To prevent water blow-off, the max airflow demand allowable is 1000 CFM. If an outdoor multiplier and cooling airflow setting should result in a demand higher than 1000, the AFC will default the demand back to 1000.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- In communicating mode, default CFM/Ton is 400.
- Cooling airflow values are with wet coil, no filter

TEM8A0B30V31DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	430 / 538 50 / 39	430 / 415 75 / 48	430 / 264 95 / 43	430 / NA 110 / NA	430 / NA 145 / NA	290 CFM/ton	CFM Watts	434 34	419 64	419 96	403 130	384 167
	350 CFM/ton	CFM Watts	520 / 620 60 / 53	520 / 514 90 / 64	520 / 398 120 / 61	520 / NA 135 / NA	510 / NA 175 / NA	350 CFM/ton	CFM Watts	521 44	512 77	514 112	500 153	485 196
	400 CFM/ton	CFM Watts	590 / 688 75 / 67	590 / 593 105 / 80	590 / 493 140 / 80	590 / NA 160 / NA	590 / NA 205 / NA	400 CFM/ton	CFM Watts	595 56	589 91	595 127	584 173	573 222
	450 CFM/ton	CFM Watts	670 / 758 85 / 85	670 / 671 125 / 100	660 / 581 160 / 102	660 / NA 190 / NA	660 / NA 235 / NA	450 CFM/ton	CFM Watts	668 71	667 107	675 145	668 196	660 250
2 tons	290 CFM/ton	CFM Watts	570 / 670 60 / 63	570 / 573 90 / 76	570 / 469 125 / 75	570 / NA 165 / NA	570 / NA 215 / NA	290 CFM/ton	CFM Watts	575 53	569 87	573 123	561 167	549 215
	350 CFM/ton	CFM Watts	690 / 781 85 / 91	690 / 696 120 / 107	690 / 609 160 / 110	690 / 518 210 / 98	680 / NA 259 / NA	350 CFM/ton	CFM Watts	693 76	693 113	702 152	696 204	689 259
	400 CFM/ton	CFM Watts	790 / 875 110 / 122	790 / 798 150 / 140	790 / 720 195 / 145	780 / 639 250 / 137	780 / 555 301 / 115	400 CFM/ton	CFM Watts	791 103	795 143	805 184	803 240	798 301
	450 CFM/ton	CFM Watts	890 / 971 145 / 161	890 / 899 185 / 181	880 / 827 235 / 189	880 / 754 295 / 184	880 / 680 347 / 184	450 CFM/ton	CFM Watts	889 138	895 181	902 226	899 284	891 347
2.5 tons	290 CFM/ton	CFM Watts	720 / 823 90 / 104	720 / 741 140 / 120	710 / 659 170 / 124	710 / 573 220 / 115	710 / 481 260 / 91	290 CFM/ton	CFM Watts	717 82	718 120	728 159	723 212	717 269
	350 CFM/ton	CFM Watts	870 / 963 140 / 157	860 / 892 182 / 177	873 / 819 235 / 185	860 / 746 280 / 180	850 / 671 330 / 161	350 CFM/ton	CFM Watts	865 128	871 170	879 214	876 272	869 335
	390 CFM/ton	CFM Watts	969 / 1087 143 / 166	985 / 1011 198 / 191	993 / 921 262 / 205	992 / 809 329 / 189	1000 / 770 399 / 187	390 CFM/ton	CFM Watts	969 134	989 188	1004 250	999 323	1026 402
	400 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	400 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	450 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	450 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
3 tons †	290 CFM/ton	CFM Watts	868 / 974 111 / 128	884 / 907 163 / 156	891 / 826 220 / 173	893 / 729 281 / 162	894 / 688 345 / 162	290 CFM/ton	CFM Watts	868 103	888 154	901 211	900 277	917 347
	350 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	350 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	390 † CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	390 † CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	400 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	400 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416
	450 CFM/ton	CFM Watts	993 / 1114 152 / 176	1008 / 1035 208 / 200	1017 / 943 273 / 214	1015 / 828 341 / 196	1022 / 787 413 / 194	450 CFM/ton	CFM Watts	993 142	1013 197	1028 261	1023 335	1049 416

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- To prevent water blow-off, the max airflow demand allowable is 1000 CFM. If an outdoor multiplier and cooling airflow setting should result in a demand higher than 1000, the AFC will default the demand back to 1000.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- In communicating mode, default CFM/Ton is 400.
- Cooling airflow values are with wet coil, no filter

TEM8A0C36V31DB & TEM8A0C42V41DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
2.5 tons	290 CFM/ton	CFM Watts	735 / 837 59 / 72	727 / 702 96 / 90	700 / 593 138 / 105	673 / 415 176 / 123	660 / 415 215 / 148	290 CFM/ton	CFM Watts	735 59	727 96	700 138	673 176	660 215
	350 CFM/ton	CFM Watts	883 / 972 82 / 103	884 / 849 124 / 123	882 / 746 170 / 138	881 / 657 223 / 152	870 / 577 270 / 168	350 CFM/ton	CFM Watts	883 82	884 124	882 170	881 223	870 270
	400 CFM/ton	CFM Watts	1007 / 1084 109 / 136	1016 / 971 154 / 158	1033 / 874 204 / 174	1020 / 788 269 / 187	1010 / 711 320 / 200	400 CFM/ton	CFM Watts	1007 109	1016 154	1033 204	1020 269	1010 320
	450 CFM/ton	CFM Watts	1133 / 1198 143 / 177	1146 / 1093 192 / 202	1176 / 1001 246 / 220	1140 / 919 321 / 233	1130 / 845 375 / 244	450 CFM/ton	CFM Watts	1133 143	1146 192	1176 246	1140 321	1130 375
3 tons	290 CFM/ton	CFM Watts	878 / 993 82 / 108	879 / 872 123 / 129	876 / 771 169 / 144	874 / 682 221 / 157	865 / 602 270 / 173	290 CFM/ton	CFM Watts	878 82	879 123	876 169	874 221	865 270
	350 CFM/ton	CFM Watts	1057 / 1154 122 / 160	1068 / 1045 168 / 184	1091 / 952 220 / 201	1070 / 869 289 / 213	1060 / 793 340 / 225	350 CFM/ton	CFM Watts	1057 122	1068 168	1091 220	1070 289	1060 340
	400 CFM/ton	CFM Watts	1209 / 1289 168 / 216	1223 / 1190 219 / 243	1255 / 1102 277 / 262	1210 / 1024 355 / 276	1190 / 952 410 / 287	400 CFM/ton	CFM Watts	1209 168	1223 219	1255 277	1210 355	1190 410
	450 CFM/ton	CFM Watts	1364 / 1426 230 / 287	1375 / 1334 286 / 317	1393 / 1253 350 / 339	1340 / 1179 429 / 355	1330 / 1110 480 / 367	450 CFM/ton	CFM Watts	1364 230	1375 286	1393 350	1340 429	1330 480
3.5 tons	290 CFM/ton	CFM Watts	1022 / 1123 113 / 148	1031 / 1012 158 / 172	1050 / 917 209 / 188	1030 / 832 275 / 201	1030 / 756 325 / 213	290 CFM/ton	CFM Watts	1022 113	1031 158	1050 209	1030 275	1030 325
	350 CFM/ton	CFM Watts	1235 / 1312 178 / 227	1249 / 1214 229 / 254	1242 / 1128 288 / 274	1230 / 1050 367 / 288	1220 / 978 420 / 299	350 CFM/ton	CFM Watts	1235 178	1249 229	1242 288	1230 367	1220 420
	400 CFM/ton	CFM Watts	1416 / 1471 254 / 314	1424 / 1383 313 / 263	1399 / 1303 378 / 368	1380 / 1230 455 / 385	1370 / 1163 510 / 398	400 CFM/ton	CFM Watts	1416 254	1424 313	1399 378	1380 455	1370 510
	450 CFM/ton	CFM Watts	1601 / 1618 356 / 420	1591 / 1536 423 / 454	1547 / 1462 497 / 480	1500 / 1394 553 / 500	1390 / 1330 520 / 514	450 CFM/ton	CFM Watts	1601 356	1591 423	1547 497	1500 553	1390 520
4 tons †	290 CFM/ton	CFM Watts	1168 / 1276 155 / 209	1182 / 1175 204 / 235	1182 / 1087 260 / 254	1170 / 1007 337 / 268	1160 / 935 390 / 279	290 CFM/ton	CFM Watts	1168 155	1182 204	1182 260	1170 337	1160 390
	350 † CFM/ton	CFM Watts	1416 / 1492 254 / 326	1424 / 1404 313 / 357	1399 / 1325 378 / 381	1380 / 1252 455 / 398	1370 / 1185 510 / 411	350 † CFM/ton	CFM Watts	1416 254	1424 313	1399 378	1380 455	1370 510
	400 CFM/ton	CFM Watts	1628 / 1616 373 / 435	1614 / 1535 441 / 468	1534 / 1461 517 / 492	1500 / 1393 568 / 510	1390 / 1329 520 / 524	400 CFM/ton	CFM Watts	1628 373	1614 441	1534 517	1500 568	1390 520
	450 CFM/ton	CFM Watts	1714 / 1605 431 / 435	1686 / 1525 505 / 468	1550 / 1452 584 / 492	1500 / 1385 617 / 510	1390 / 1321 520 / 570	450 CFM/ton	CFM Watts	1714 431	1686 505	1550 584	1500 617	1390 520

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TEM8A0C48V41DB & TEM8A0C60V51DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3 tons	290 CFM/ton	CFM Watts	864 / 1015 80 / 96	856 / 883 119 / 121	851 / 772 170 / 141	850 / 676 217 / 160	820 / 590 276 / 182	290 CFM/ton	CFM Watts	864 76	856 119	851 168	843 219	822 276
	350 CFM/ton	CFM Watts	1037 / 1179 120 / 137	1037 / 1059 170 / 164	1040 / 957 224 / 185	1030 / 866 265 / 204	1030 / 784 334 / 221	350 CFM/ton	CFM Watts	1037 110	1037 158	1040 213	1039 271	1032 334
	400 CFM/ton	CFM Watts	1184 / 1317 160 / 180	1187 / 1207 215 / 209	1193 / 1110 275 / 233	1180 / 1024 325 / 251	1190 / 945 380 / 268	400 CFM/ton	CFM Watts	1184 149	1187 200	1193 260	1196 324	1197 393
	450 CFM/ton	CFM Watts	1334 / 1457 205 / 232	1336 / 1354 265 / 265	1343 / 1263 335 / 290	1340 / 1181 395 / 310	1340 / 1105 460 / 327	450 CFM/ton	CFM Watts	1334 198	1336 254	1343 318	1348 388	1353 461
3.5 tons	290 CFM/ton	CFM Watts	1015 / 1147 115 / 128	1000 / 1025 160 / 155	1000 / 921 205 / 176	1000 / 829 255 / 194	1000 / 746 309 / 212	290 CFM/ton	CFM Watts	1003 103	1002 149	1004 203	1002 260	992 322
	350 CFM/ton	CFM Watts	1210 / 1341 165 / 188	1210 / 1231 220 / 218	1210 / 1136 280 / 241	1210 / 1050 335 / 260	1210 / 971 395 / 277	350 CFM/ton	CFM Watts	1209 157	1212 208	1218 269	1222 334	1224 403
	400 CFM/ton	CFM Watts	1380 / 1503 195 / 252	1380 / 1403 285 / 286	1390 / 1314 355 / 312	1390 / 1233 420 / 332	1390 / 1159 485 / 349	400 CFM/ton	CFM Watts	1384 217	1386 275	1393 340	1397 412	1402 487
	450 CFM/ton	CFM Watts	1560 / 1667 295 / 332	1560 / 1575 365 / 369	1570 / 1492 440 / 398	1570 / 1416 515 / 421	1579 / 1345 595 / 439	450 CFM/ton	CFM Watts	1563 293	1563 362	1566 429	1566 507	1564 588
4 tons	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1144 138	1147 188	1152 247	1155 309	1154 376
	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1384 217	1386 275	1393 340	1397 412	1402 487
	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1589 305	1588 376	1591 444	1589 522	1585 604
	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1800 419	1794 509	1791 575	1773 660	1745 749
5 tons †	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1435 237	1436 297	1442 364	1446 437	1450 514
	350 † CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 † CFM/ton	CFM Watts	1747 388	1742 472	1740 539	1728 623	1707 710
	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2015 559	2007 679	1995 739	1951 810	1877 810
	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2125 641	2117 779	2100 810	2038 810	1932 810

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TEM8A0D48V41DB & TEM8A0D60V51DB AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3 tons	290 CFM/ton	CFM Watts	859 / 1010 73 / 92	880 / 880 110 / 110	868 / 771 153 / 125	862 / 675 200 / 141	857 / 588 248 / 159	290 CFM/ton	CFM Watts	859 73	880 110	868 153	862 200	857 248
	350 CFM/ton	CFM Watts	1042 / 1173 107 / 131	1058 / 1056 148 / 151	1054 / 955 194 / 167	1053 / 864 246 / 180	1047 / 782 298 / 194	350 CFM/ton	CFM Watts	1042 107	1058 148	1054 194	1053 246	1047 298
	400 CFM/ton	CFM Watts	1214 / 1310 150 / 172	1215 / 1202 194 / 172	1222 / 1107 247 / 211	1225 / 1022 299 / 224	1215 / 943 352 / 236	400 CFM/ton	CFM Watts	1214 150	1215 194	1222 247	1225 299	1215 352
	450 CFM/ton	CFM Watts	1350 / 1448 188 / 223	1338 / 1349 239 / 247	1360 / 1260 292 / 265	1363 / 1178 349 / 279	1361 / 1103 409 / 291	450 CFM/ton	CFM Watts	1350 188	1338 239	1360 292	1363 349	1361 409
3.5 tons	290 CFM/ton	CFM Watts	1007 / 1141 99 / 122	1024 / 1022 140 / 122	1018 / 919 185 / 158	1017 / 827 236 / 171	1010 / 744 288 / 186	290 CFM/ton	CFM Watts	1007 99	1024 140	1018 185	1017 236	1010 288
	350 CFM/ton	CFM Watts	1222 / 1333 150 / 180	1225 / 1227 196 / 202	1232 / 1133 246 / 219	1235 / 1048 301 / 323	1230 / 970 358 / 245	350 CFM/ton	CFM Watts	1222 150	1225 196	1232 246	1235 301	1230 358
	400 CFM/ton	CFM Watts	1421 / 1495 211 / 242	1429 / 1398 268 / 267	1430 / 1310 323 / 285	1437 / 1231 386 / 300	1451 / 1157 454 / 311	400 CFM/ton	CFM Watts	1421 211	1429 268	1430 323	1437 386	1451 454
	450 CFM/ton	CFM Watts	1583 / 1657 275 / 320	1519 / 1569 334 / 346	1592 / 1488 394 / 367	1588 / 1413 457 / 383	1586 / 1343 524 / 395	450 CFM/ton	CFM Watts	1583 275	1519 334	1592 394	1588 457	1586 524
4 tons	290 CFM/ton	CFM Watts	1155 / 1297 133 / 167	1164 / 1188 177 / 189	1166 / 1092 226 / 206	1168 / 1006 279 / 219	1162 / 927 334 / 231	290 CFM/ton	CFM Watts	1155 133	1164 226	1166 226	1168 279	1162 334
	350 CFM/ton	CFM Watts	1431 / 1516 216 / 254	1421 / 1420 264 / 276	1408 / 1334 313 / 295	1402 / 1255 369 / 309	1408 / 1181 435 / 321	350 CFM/ton	CFM Watts	1431 216	1421 264	1408 313	1402 369	1408 435
	400 CFM/ton	CFM Watts	1635 / 1700 302 / 343	1625 / 1614 360 / 259	1617 / 1534 418 / 391	1610 / 1461 479 / 407	1592 / 1392 535 / 420	400 CFM/ton	CFM Watts	1635 302	1625 360	1617 418	1610 479	1592 535
	450 CFM/ton	CFM Watts	1818 / 1886 388 / 458	1829 / 1808 458 / 487	1815 / 1734 527 / 511	1787 / 1666 598 / 529	1760 / 1602 675 / 544	450 CFM/ton	CFM Watts	1818 388	1650 458	1815 527	1787 598	1760 675
5 tons †	290 CFM/ton	CFM Watts	1453 / 1562 224 / 272	1466 / 1468 278 / 297	1463 / 1384 334 / 317	1465 / 1306 393 / 332	1464 / 1234 456 / 344	290 CFM/ton	CFM Watts	1453 224	1423 278	1463 334	1465 393	1464 456
	350 † CFM/ton	CFM Watts	1779 / 1840 360 / 427	1779 / 1759 428 / 456	1767 / 1684 494 / 478	1746 / 1615 563 / 496	1729 / 1549 638 / 510	350 † CFM/ton	CFM Watts	1766 360	1627 428	1767 494	1746 563	1729 638
	400 CFM/ton	CFM Watts	2043 / 2074 537 / 600	2019 / 2002 609 / 631	1982 / 1934 656 / 657	1916 / 1871 682 / 678	1822 / 272 687 / 380	400 CFM/ton	CFM Watts	2043 537	2019 609	1982 656	1916 682	1822 687
	450 CFM/ton	CFM Watts	2141 / 2112 584 / 658	2090 / 2041 673 / 688	2047 / 1975 760 / 712	1953 / 1207 851 / 417	1792 / 337 945 / 372	450 CFM/ton	CFM Watts	2141 584	1677 673	2047 760	1953 851	1792 945

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In communicating mode, default CFM/Ton is 400.

- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

Minimum Airflow CFM

TEM8A0B24V21DB, TEM8A0B30V31DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	650	600
BAYHTR1508BRK, BAYHTR1508LUG	850	700
BAYHTR1510BRK, BAYHTR1510LUG	850	700
BAYHTR1517BRK	1000	850
BAYHTR3510LUG	850	700
BAYHTR3517LUG	1000	850

TEM8A0C36V31DB, TEM8A0C42V41DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	675	675
BAYHTR1508BRK, BAYHTR1508LUG	950	900
BAYHTR1510BRK, BAYHTR1510LUG	950	900
BAYHTR1517BRK	950	900
BAYHTR3510LUG	950	900
BAYHTR3517LUG	1050	950
BAYHTR1523BRK	1500	1300

TEM8A0C48V41D, TEM8A0C60V51D		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	900	800
BAYHTR1508BRK, BAYHTR1508LUG	1200	1000
BAYHTR1510BRK, BAYHTR1510LUG	1350	1000
BAYHTR1517BRK	1400	1100
BAYHTR3510LUG	1200	1000
BAYHTR3517LUG	1400	1100
BAYHTR1523BRK	1430	1300
BAYHTR1525BRK	1850	1600

TEM8A0D48V41DB, TEM8A0D60V51DB		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG BAYHTR1505BRK, BAYHTR1505LUG	900	800
BAYHTR1508BRK, BAYHTR1508LUG	1200	1000
BAYHTR1510BRK, BAYHTR1510LUG	1200	1000
BAYHTR1517BRK	1400	1100
BAYHTR3510LUG	1200	1000
BAYHTR3517LUG	1400	1100
BAYHTR1523BRK	1400	1300
BAYHTR1525BRK	1600	1400

Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR3510	3
1200	0.01	0.04	0.05	0.10	BAYHTR3515	3
1100	0.01	0.03	0.05	0.09	BAYHTR1517	3
1000	0.01	0.03	0.04	0.09	BAYHTR1522	4
900	0.01	0.03	0.04	0.08	BAYHTR1523	4
800	0.01	0.03			BAYHTR3517	3
700	0.01	0.02			BAYHTR1525	4
600	0.01	0.02				

Subcooling Adjustment

System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM8A0C36V31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM8A0B24V21 TEM8A0B30V31	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM8A0B30V31 TEM8A0C36V31 TEM8A0C42V41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees

All other matches must be charged per the nameplate charging instructions

Subcooling Adjustment for TEM8A0C48V41 & TEM8A0C60V51

Sub-Cooling Charge Specification For AHRI Rated Performance		
OD Equipment	Up Flow / Horizontal	Down Flow
AC UNIT	OD Name Plate	OD Name Plate
HP UNIT ≤ 3.5 Tons	OD Name Plate	OD Name Plate + 4 Degrees
HP UNIT = 4 and 5 Tons	OD Name Plate	OD Name Plate

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: York

Model: AE Series

TABLE 4: Electrical Heat: Minimum Fan Speed

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models										
		18B	24B	30B	36B	36C	42C	48C	48D	60C	60D	
6HK(0,1)6500206	2.4kW	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500506	4.8kW	Med Lo (#2)	Med (#3)	Med (#3)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500806	7.7kW	Med (#3)	Med Hi (#4)	Med Hi (#4)	Med Lo (#2)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6501006 6HK36501025	9.6kW	Med (#3)	Med Hi (#4)	Med Hi (#4)	Med Lo (#2)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501306	12.5kW	–	Med Hi (#4)	Med Hi (#4)	Med (#3)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501506 6HK36501525	14.4kW	–	–	Med Hi (#4)	Med Hi (#4)	Med Hi (#4)	Hi (#5)	Med (#3)	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501806 6HK36501825	17.3kW	–	–	–	Med Hi (#4)	Med Hi (#4)	Hi (#5)	Med (#3)	Med Hi (#4)	Med (#3)	Med (#3)	Med (#3)
6HK(1,2)6502006 6HK46502025	19.2kW	–	–	–	Med Hi (#4)	Hi (#5)	Hi (#5)	Med Hi (#4)	Hi (#5)	Med Hi (#4)	Med Hi (#4)	Med Hi (#4)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	–	–	–	Hi (#5)	–	–	Med Hi (#4)

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
- 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

TABLE 11: Air Flow Data (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
18B	#5 HI	1132	1107	1074	1053	1023	990	955
	#4 MED-HI	1025	994	971	943	912	878	803
	#3 MED	821	798	764	727	657	599	536
	#2 MED-LO	661	632	572	491	414	335	279
	#1 LO	510	435	365	291	181	147	23
24B	#5 HI	1117	1078	1061	1034	1007	985	955
	#4 MED-HI	1032	1001	975	946	928	898	872
	#3 MED	838	799	768	742	698	634	582
	#2 MED-LO	644	620	582	521	440	378	284
	#1 LO	474	421	336	279	187	144	70
30B	#5 HI	1113	1083	1057	1034	1007	977	941
	#4 MED-HI	1057	1021	1000	977	947	914	881
	#3 MED	857	821	794	768	728	653	601
	#2 MED-LO	675	641	607	533	460	408	345
	#1 LO	489	457	386	324	261	209	158
36B	#5 HI	1323	1287	1264	1238	1210	1177	1149
	#4 MED-HI	1255	1222	1193	1170	1140	1113	1081
	#3 MED	1052	1025	992	967	927	857	811
	#2 MED-LO	855	823	799	739	691	637	572
	#1 LO	653	622	574	507	463	411	353
36C	#5 HI	1562	1531	1496	1453	1416	1381	1348
	#4 MED-HI	1277	1240	1206	1165	1133	1083	1025
	#3 MED	1078	1043	996	957	899	819	770
	#2 MED-LO	881	836	810	749	658	578	537
	#1 LO	707	677	595	524	451	405	346
42C	#5 HI	1594	1564	1530	1497	1459	1424	1382
	#4 MED-HI	1442	1408	1374	1338	1298	1251	1199
	#3 MED	1249	1215	1179	1135	1082	1016	956
	#2 MED-LO	1048	1008	962	905	840	761	683
	#1 LO	881	833	786	708	623	540	481

TABLE 11: Air Flow Data (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
48C	#5 HI	1759	1719	1685	1644	1611	1578	1540
	#4 MED-HI	1684	1639	1606	1569	1536	1489	1452
	#3 MED	1511	1460	1427	1388	1347	1308	1262
	#2 MED-LO	1305	1260	1212	1178	1121	1076	1027
	#1 LO	1123	1068	1029	985	909	793	769
48D	#5 HI	1774	1726	1684	1651	1614	1574	1529
	#4 MED-HI	1709	1668	1619	1580	1548	1499	1459
	#3 MED	1484	1436	1410	1372	1321	1284	1237
	#2 MED-LO	1295	1254	1218	1167	1114	1069	1005
	#1 LO	1102	1051	1011	962	890	831	766
60C	#5 HI	1964	1930	1897	1858	1823	1789	1752
	#4 MED-HI	1889	1855	1818	1791	1747	1716	1668
	#3 MED	1693	1652	1627	1584	1551	1510	1462
	#2 MED-LO	1486	1450	1411	1375	1335	1291	1252
	#1 LO	1292	1247	1207	1172	1123	1055	990
60D	#5 HI	1907	1871	1835	1796	1762	1723	1681
	#4 MED-HI	1851	1816	1774	1742	1699	1659	1616
	#3 MED	1648	1608	1569	1530	1492	1445	1404
	#2 MED-LO	1456	1416	1371	1333	1289	1227	1163
	#1 LO	1261	1221	1172	1120	1055	998	949

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters.

For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended.

Airflow data shown is from testing performed at 230V. AE units use a standard ECM constant torque motor, and there is minimal variation of airflow at other distribution voltage values. The above data can be used for airflow at other distribution voltages.

SECTION XI: BLOWER SPEED CONNECTIONS

Adjust blower motor speed to provide airflow within the minimum and maximum limits approved for indoor coil, electric heat and outdoor unit. Make speed tap adjustments at the motor terminal block. Refer to airflow data listed in Table 11. Connect motor wires to motor speed tap receptacle for speed desired.

The standard ECM motor operates when a 24 VAC signal is sent to any of its 5-speed taps. If simultaneous 24 VAC inputs are present, the motor operates at the highest speed tap that is energized. The lowest speed is 1, and the highest speed is 5. The air handler comes factory wired with the electric heat kit connected to tap 5 for the heating speed, and the cooling/heat pump connected to tap 4 for the heating speed. The cooling / heat pump indicating speed is supplied by the thermostat "G" signal.

The electric heat kit wire for the heating speed should be moved from 5 to the appropriate speed tap according to Table 4. If electric heat requires speed tap 5, the highest speed tap available for cooling / heat pump heating is tap 4.

If a lower circulating speed is desired for fan only operation (lower than a heating or cooling fan speed), connect the factory "red" wire shipped on tap #4 into the lowest setting desired. Field install a wire from low voltage "YEL," and connect it to the motor speed tap desired for cooling / heat pump heating fan speed.

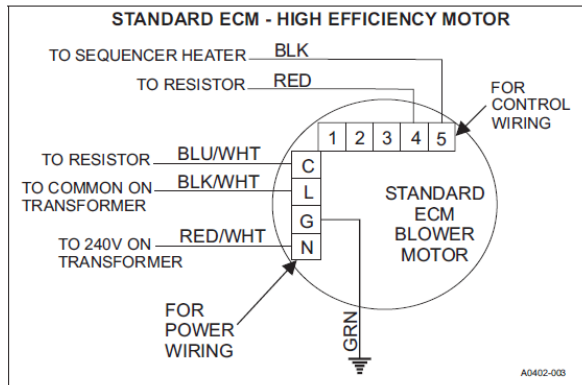


FIGURE 17: Blower Speed Connections

SECTION XIV: AIR SYSTEM ADJUSTMENT

To check the Cubic Feet per Minute (CFM), measure the external duct static using a manometer and static pressure tips. To prepare coil for static pressure measurements run the fan only to assure a dry coil.

NOTICE

Refer to Table 11 for coil Air Flow Data of Cubic Feet Per Minute (CFM).

Drill 2 holes, one 12" away from the air handler in the supply air duct and on 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips, and energize the blower motor. See Table 9 to determine the air flow, and make the necessary adjustments to keep the CFM within the airflow limitations of the coil.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.

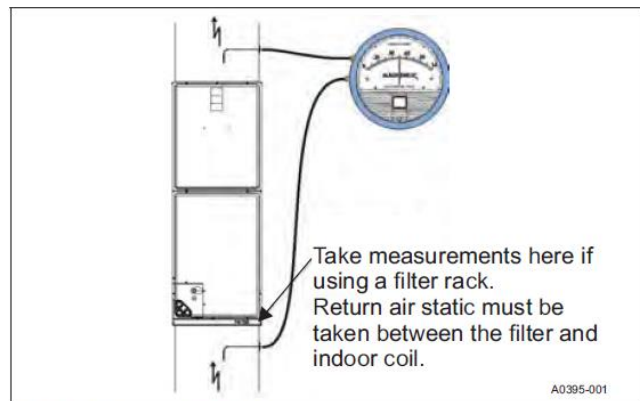


FIGURE 18: Duct Static Measurements

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: York

Model: AP Series

ELECTRICAL HEAT - MINIMUM FAN SPEED

Heater Kit Models ^{1,2,3}	Nom. kW@240V	Air Handler Models										
		18B	24B	30B	36B	36C	37C	42C	48C	48D	60C	60D
6HK(0,1)6500206	2.4kW	Med	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
6HK(0,1)6500506	4.8kW	Med	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
6HK(0,1)6500806	7.7kW	High	High	Med	Low	Low	Low	Low	Low	Low	Low	Low
6HK(0,1)6501006 6HK36501025	9.6kW	High	High	Med	Low	Low	Low	Low	Low	Low	Low	Low
6HK(1,2)6501306	12.5kW	-	High	Med	Low	Med	Med	Low	Low	Low	Low	Low
6HK(1,2)6501506 6HK36501525	14.4kW	-	-	Med	Low	Med	Med	Med	Low	Low	Low	Low
6HK(1,2)6501806 6HK36501825	17.3kW	-	-	-	Low	Med	Med	Med	Low	Low	Low	Low
6HK(1,2)6502006 6HK46502025	19.2kW	-	-	-	Low	High	High	Med	Med	Med	High	Med
6HK(1,2)6502506 6HK46502525	24kW	-	-	-	-	-	-	-	-	Med	-	Med

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
- 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM

% Of Rated Airflow (CFM)	80%	90%	100%	110%	120%
Capacity Factor	0.96	0.98	1.00	1.02	1.03

BLOWER SPEED CONNECTIONS

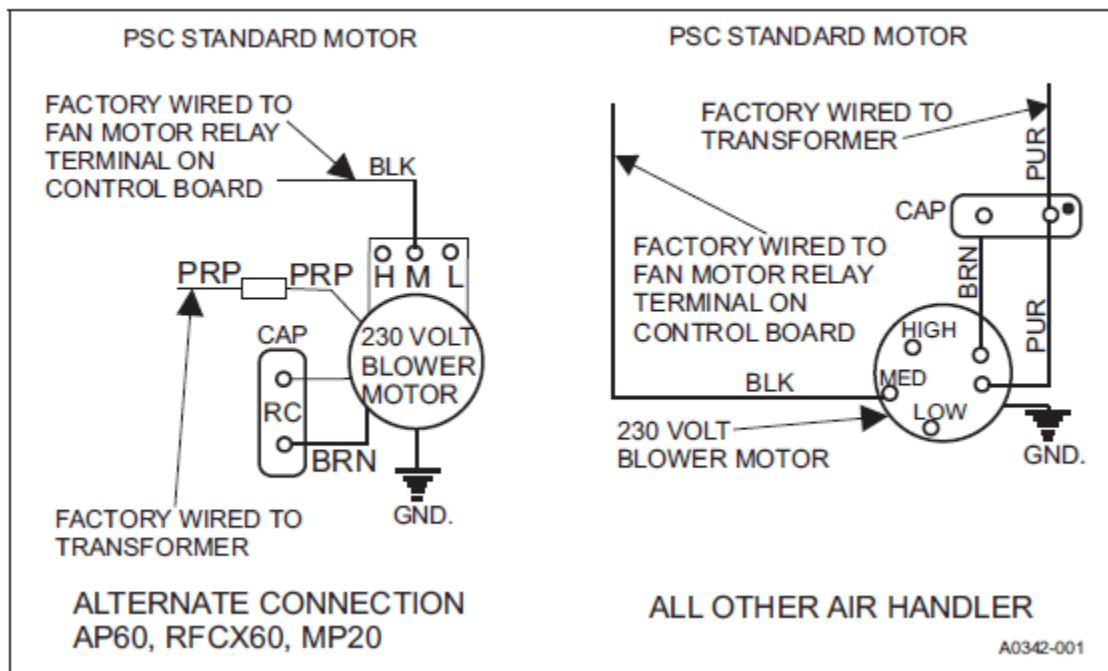


TABLE 9: Air Flow Data (CFM)¹

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
208 Volts								
18B	High	723	702	666	576	523	373	317
	Medium	566	543	480	382	305	183	N/A
	Low	394	330	183	144	N/A	N/A	N/A
24B	High	990	973	953	924	885	797	713
	Medium	736	723	703	644	606	540	457
	Low	579	562	513	463	395	287	202
30B	High	1228	1192	1134	1078	1023	951	843
	Medium	1023	998	958	915	859	741	677
	Low	769	745	701	632	577	495	433
36B	High	1522	1475	1416	1349	1276	1188	1108
	Medium	1251	1217	1180	1135	1085	1042	968
	Low	965	951	936	914	886	836	742
36C	High	1539	1489	1450	1400	1283	1201	1110
	Medium	1159	1147	1096	1042	994	943	877
	Low	966	933	892	859	812	769	679
42C	High	1827	1769	1707	1634	1545	1315	1236
	Medium	1444	1423	1392	1348	1204	1118	1050
	Low	1136	1140	1116	1041	982	893	842
48C	High	1686	1643	1583	1507	1441	1357	1062
	Medium	1482	1439	1392	1340	1280	1090	971
	Low	1252	1222	1186	1148	987	928	810
48D	High	1988	1931	1853	1775	1695	1606	1391
	Medium	1672	1636	1587	1522	1439	1302	1139
	Low	1376	1348	1309	1249	1138	1038	973
60C	High	1851	1813	1757	1680	1601	1513	1262
	Medium	1718	1687	1631	1562	1499	1417	1185
	Low	1560	1546	1505	1441	1383	1258	1144
60D	High	1932	1871	1784	1701	1610	1491	1345
	Medium	1795	1734	1660	1590	1510	1402	1225
	Low	1622	1584	1524	1472	1391	1277	1115

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.30" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended.

TABLE 9: Air Flow Data (CFM)¹ (Continued)

Models	Blower Motor Speed	External Static Pressure (in. wc.)						
		0.10	0.20	0.30	0.40	0.50	0.60	0.70
230 Volts								
18B	High	806	780	745	687	623	508	380
	Medium	640	614	563	500	405	284	216
	Low	461	414	325	188	156	N/A	N/A
24B	High	1142	1114	1078	1051	988	931	778
	Medium	854	840	826	800	738	688	605
	Low	684	663	633	578	510	445	322
30B	High	1316	1270	1213	1151	1081	1008	917
	Medium	1139	1104	1059	1005	952	880	769
	Low	863	841	804	759	678	606	513
36B	High	1601	1552	1485	1414	1337	1258	1178
	Medium	1385	1352	1302	1252	1193	1106	1057
	Low	1117	1103	1079	1044	1001	945	889
36C	High	1671	1636	1581	1513	1439	1330	1210
	Medium	1326	1310	1280	1238	1162	1081	994
	Low	1125	1102	1059	1014	950	894	827
42C	High	1924	1861	1778	1707	1618	1442	1271
	Medium	1629	1585	1541	1470	1403	1226	1073
	Low	1323	1295	1271	1232	1111	1045	954
48C	High	1775	1727	1668	1596	1513	1431	1190
	Medium	1591	1551	1500	1447	1380	1312	1059
	Low	1392	1363	1317	1267	1206	1025	924
48D	High	2150	2069	1988	1894	1812	1690	1481
	Medium	1878	1812	1752	1677	1604	1497	1258
	Low	1583	1543	1493	1437	1332	1164	1075
60C	High	1931	1889	1808	1739	1655	1566	1472
	Medium	1845	1798	1731	1659	1581	1498	1249
	Low	1726	1692	1640	1578	1503	1416	1174
60D	High	2040	1969	1885	1779	1686	1562	1439
	Medium	1917	1861	1779	1694	1604	1492	1299
	Low	1789	1738	1658	1591	1502	1404	1206

- Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.30" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended.

SECTION XIV: AIR SYSTEM ADJUSTMENT

To check the Cubic Feet per Minute (CFM), measure the external duct static using a manometer and static pressure tips. To prepare coil for static pressure measurements run the fan only to assure a dry coil.

NOTICE
<i>Refer to Table 8 for coil Air Flow Data of Cubic Feet Per Minute (CFM).</i>

Drill 2 holes, one 12" away from the air handler in the supply air duct and on 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips, and energize the blower motor. See Table 8 to determine the air flow, and make the necessary adjustments to keep the CFM within the airflow limitations of the coil.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.

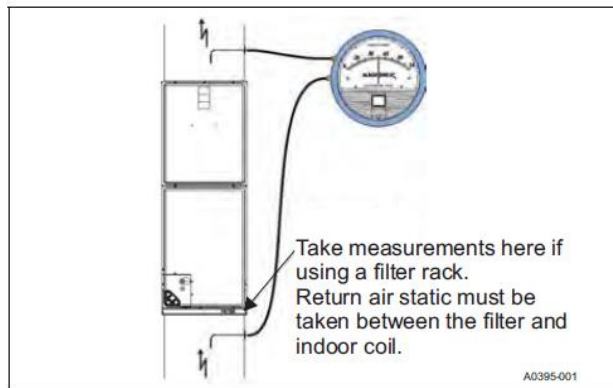


FIGURE 17: Duct Static Measurements

PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: York

Model: AVC Series

SECTION XII: AIRFLOW AND COMFORT SETTING SELECTION

AIRFLOW SELECTION

When not using communicating functionality, the airflow and comfort setting selection jumpers must be set properly at the time of installation for proper system operation. Place jumpers in the proper locations based on the information shown in Table 15 & Figure 17.

Inputs to air handler control board are passed to the motor which determines the target CFM to be delivered. The following inputs will produce the CFM per the appropriate table and selected tap settings.

NOTICE
<i>Incorrect airflow and comfort settings may result in decreased system efficiency and performance.</i>

These variable speed air handlers are designed to deliver constant airflow (CFM) regardless of the external static pressure (ESP) in the ductwork. Therefore, if too many supply registers are closed, a filter becomes clogged, or there is a restriction in the ductwork, the motor will automatically operate at a higher speed to compensate for the higher ESP. This may result in a higher operating sound level and motor damage.

To Set Cooling Airflow:

Refer to the outdoor unit technical guide for the recommended airflow with the matching indoor coil. Refer to Table 15 for the possible high speed cooling and heat pump airflow selections.

Find the recommended system airflow in Table 15 for the installed air handler model and outdoor unit.

Select the COOL airflow needed from Table 15. Set the COOL and ADJUST Jumpers on the control as indicated in Table 15.

TABLE 8: Electrical Heat: Minimum Fan Speed

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models										
		18B	24B	30B	36B	36C	42C	48C	48D	60C	60D	
6HK(0,1)6500206	2.4kW	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500506	4.8kW	Med Lo (D)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(0,1)6500806	7.7kW	Med (C)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(0,1)6501006 6HK36501025	9.6kW	Med (C)	Med Hi (B)	Med Hi (B)	Med Lo (D)	Med Hi (B)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6501306	12.5kW	–	Med Hi (B)	Med Hi (B)	Med (C)	Med Hi (B)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6501506 6HK36501525	14.4kW	–	–	Med Hi (B)	Med Hi (B)	Med Hi (B)	Hi (A)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6501806 6HK36501825	17.3kW	–	–	–	Med Hi (B)	Med Hi (B)	Hi (A)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6502006 6HK46502025	19.2kW	–	–	–	Med Hi (B)	Hi (A)	Hi (A)	Med (C)	Med (C)	Med (C)	Med (C)	Med (C)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	–	–	–	–	Hi (A)	–	Med Hi (B)

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

To Set Heat Pump Airflow:

The heat pump airflow setting is the same as the cooling airflow setting. No additional airflow setting is required. However, you must set the AC/HP jumper to the HP position for proper system operation (See Figure 17).

To Set Electric W1 Heat Airflow:

The blower speed required for 1st stage electric heat is different than cooling. Refer to Table 15 for the possible CFM selections. Refer to Table 8 for the minimum required airflow for the electric heater installed. Find the desired airflow in Table 15 for low heat. Set the HEAT jumper on the control as indicated in Table 15.

To Set W2 Electric Heat Airflow:

Airflow for any W2 input, which is for Stages 2 & 3 of electric heat, is the indicated CFM for high heat tap selection on Table 15.

⚠ CAUTION
<i>DO NOT change the ADJUST tap position on the control as this will change your cooling airflow previously selected.</i>

Blower Ramp-Up /Ramp-Down:

To minimize the sound made by the blower when it speeds up or slows down, the blower will slowly ramp up or down from one speed to another. Changes in blower speed during A/C or heat pump heating can take up to 30 seconds. Changes in blower speed during electric resistance heating can take up to 15 seconds.

COMFORT SETTINGS

TABLE 5: Comfort Setting Selection

DELAY TAP	COMFORT SETTING
A	Normal
B	Humid
C	Dry
D	Temperate

Normal

The normal setting provides a ramp-up from zero airflow to full capacity and a ramp-down from full capacity back to zero airflow.

Humid

The humid setting is best-suited for installations where the humidity is frequently very high during cooling season, such as in the southern part of the country. On a call for cooling, the blower will ramp up to 50% of full capacity and will stay there for two minutes, then will ramp up to 82% of full capacity and will stay there for five minutes, and then will ramp up to full capacity, where it will stay until the wall thermostat is satisfied.

Dry

The dry setting is best suited to parts of the country where excessive humidity is not generally a problem, where the summer months are usually dry. On a call for cooling the motor will ramp up to full capacity and will stay there until the thermostat is satisfied. At the end of the cooling cycle, the blower will ramp down to 50% of full capacity where it will stay for 60 seconds. Then it will ramp down to zero.

Temperate

The temperate setting is best suited for most of the country, where neither excessive humidity nor extremely dry conditions are the norm. On a call for cooling, the motor will ramp up to 63% of full capacity and will stay there for 90 seconds, then will ramp up to full capacity. At the end of the cooling cycle, the motor will ramp down to 63% of full capacity and will stay there for 30 seconds, then will ramp down to zero.

TABLE 15: Air Flow Data (CFM)¹

High/Low Speed Cooling CFM											
Cool Tap	ADJ Tap	18B		24B		30B		36B		36C	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	B	810	527	1022	562	1060	731	1350	878	1350	878
B	B	675	439	795	437	1013	658	1238	804	1238	804
A	A	720	468	900	495	1000	650	1200	780	1200	780
B	A	600	390	700	385	900	585	1100	715	1100	715
A	C	630	410	783	431	875	569	1050	683	1050	683
C	B	534	347	766	421	844	548	1125	731	1125	731
B	C	525	341	609	335	788	512	963	626	963	626
D	B	450	293	568	312	703	457	900	585	900	585
C	A	475	309	675	371	750	488	1000	650	1000	650
D	A	400	260	500	275	625	406	800	520	800	520
C	C	416	270	587	323	656	427	875	569	875	569
D	C	350	228	435	239	547	355	700	455	700	455

Cool Tap	ADJ Tap	42C		48C		48D		60C		60D	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	B	1596	1037	1760	1144	1760	1144	1860	1308	1935	1316
B	B	1400	910	1540	1001	1540	1001	1840	1196	1772	1152
A	A	1425	926	1600	1040	1600	1040	1750	1138	1800	1170
B	A	1250	813	1400	910	1400	910	1600	1040	1575	1024
A	C	1268	824	1424	926	1424	926	1531	995	1665	1082
C	B	1344	874	1320	858	1320	858	1581	1028	1491	969
B	C	1113	723	1246	810	1246	810	1400	910	1457	947
D	B	1120	728	1100	715	1100	715	1323	860	1350	878
C	A	1200	780	1200	780	1200	780	1375	894	1325	861
D	A	1000	650	1000	650	1000	650	1150	748	1200	780
C	C	1068	694	1068	694	1068	694	1203	782	1226	797
D	C	890	579	890	579	890	579	1006	654	1110	722

TABLE 15: Air Flow Data (CFM)¹

High/Low Speed Heat CFM											
Heat Tap	18B		24B		30B		36B		36C		
	High	Low	High	Low	High	Low	High	Low	High	Low	
A	850	850	1025	980	1025	850	1225	1020	1425	1150	
B	750	750	960	960	960	775	1150	950	1150	1000	
C	675	675	725	725	750	750	950	750	925	925	
D	425	425	580	580	580	580	725	725	675	675	

Heat Tap	42C		48C		48D		60C		60D	
	High	Low	High	Low	High	Low	High	Low	High	Low
A	1430	1200	1650	1200	1650	1150	1850	1250	1825	1150
B	1375	1150	1550	1150	1600	1050	1775	1200	1775	1050
C	1150	1050	1375	1050	1325	1000	1570	1150	1570	1000
D	900	900	1150	1000	1125	780	1370	1050	1375	950

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.50" wc. external static pressure.

SECTION XV: AIR SYSTEM ADJUSTMENT

To check the Cubic Feet per Minute (CFM), measure the external duct static using a manometer and static pressure tips. To prepare coil for static pressure drop measurements run the fan only to assure a dry coil. Drill 2 holes, one 12" away from the air handler in the supply air duct and on 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips and read the pressure drop from the manometer.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.

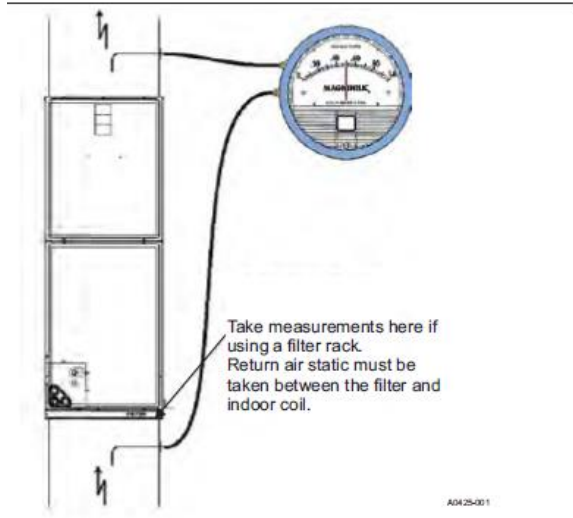


FIGURE 22: Duct Static Measurements

Manufacturer: York

Model: ME Series

SECTION VIII: BLOWER SPEED CONNECTIONS

Adjust blower motor speed to provide airflow within the minimum and maximum limits approved for indoor coil, electric heat and outdoor unit. Make speed tap adjustments at the motor terminal block. Refer to airflow data listed in Table 11. Connect motor wires to motor speed tap receptacle for speed desired.

The standard ECM motor operates when a 24 VAC signal is sent to any of its 5-speed taps. If simultaneous 24 VAC inputs are present, the motor operates at the highest speed tap that is energized. The lowest speed is 1, and the highest speed is 5. The air handler comes factory wired with the electric heat kit connected to tap 5 for the heating speed, and the cooling heat pump connected to tap 4 for the heating speed. The cooling / heat pump indicating speed is supplied by the thermostat "G" signal.

The electric heat kit wire for the heating speed should be moved from 5 to the appropriate speed tap according to Table 4. If electric heat requires speed tap 5, the highest speed tap available for cooling / heat pump heating is tap 4.

If a lower circulating speed is desired for fan only operation (lower than a heating or cooling fan speed), connect the factory "red" wire shipped on tap #4 into the lowest setting desired. Field install a wire from low voltage "YEL," and connect it to the motor speed tap desired for cooling / heat pump heating fan speed.

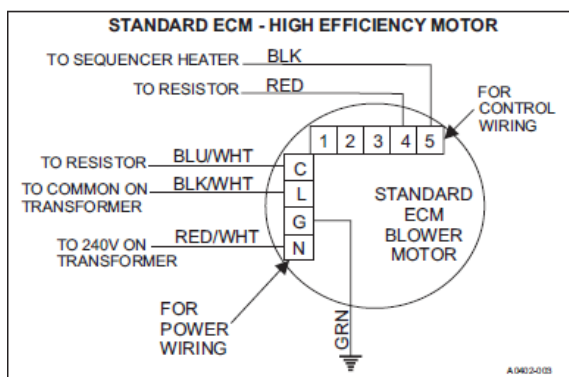


FIGURE 10: Blower Speed Connections

TABLE 4: Electrical Heat: Minimum Fan Speed

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models				
		ME08B	ME12B	ME14D	ME16C	ME20D
6HK(0,1)6500206	2.4kW	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500506	4.8kW	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500806	7.7kW	Med Hi (#4)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6501006 6HK36501025	9.6kW	Med Hi (#4)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501306	12.5kW	Hi (#5)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501506 6HK36501525	14.4kW	–	Hi (#5)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501806 6HK36501825	17.3kW	–	Hi (#5)	Med Hi (#4)	Med (#3)	Med (#3)
6HK(1,2)6502006 6HK46502025	19.2kW	–	Hi (#5)	–	Med Hi (#4)	Med (#3)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	Med (#3)

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

TABLE 11: Air Flow Data (CFM)¹

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)						
			0.10	0.20	0.30	0.40	0.50	0.60	0.70
ME08B	CM18B	#5 HI	939	893	871	837	804	767	714
		#4 MED-HI	833	803	765	737	697	639	587
		#3 MED	638	605	576	494	454	380	278
		#2 MED-LO	538	489	456	374	283	211	157
	CM24B	#1 LO	478	446	367	272	211	150	23
		#5 HI	923	892	862	833	797	743	688
		#4 MED-HI	846	816	786	750	710	638	599
		#3 MED	631	605	575	512	442	370	282
	CM30B	#2 MED-LO	570	530	460	402	328	232	186
		#1 LO	477	448	372	292	203	157	24
		#5 HI	937	905	877	841	798	748	704
		#4 MED-HI	846	808	778	733	667	636	572
ME12B	CM18B	#3 MED	638	609	556	495	463	399	336
		#2 MED-LO	560	484	469	408	321	265	201
		#1 LO	481	448	390	328	252	166	92
		#5 HI	1355	1334	1302	1270	1231	1201	1170
	CM24B	#4 MED-HI	1273	1244	1213	1177	1142	1109	1073
		#3 MED	1074	1041	1009	974	936	894	809
		#2 MED-LO	862	826	798	766	688	607	587
		#1 LO	659	616	560	512	457	387	275
	CM30B	#5 HI	1359	1331	1301	1269	1234	1202	1171
		#4 MED-HI	1272	1245	1209	1174	1143	1106	1073
		#3 MED	1072	1040	1007	973	937	874	778
		#2 MED-LO	857	821	794	756	676	613	567
CM36B	#1 LO	654	606	557	504	443	379	271	
	#5 HI	1354	1325	1294	1263	1230	1198	1168	
	#4 MED-HI	1268	1235	1203	1171	1139	1107	1075	
	#3 MED	1069	1038	1003	974	935	876	781	
ME14D	CM30D	#2 MED-LO	859	818	794	756	681	620	563
		#1 LO	654	608	552	503	434	364	289
		#5 HI	1348	1317	1285	1254	1222	1189	1157
		#4 MED-HI	1258	1225	1192	1160	1126	1093	1063
	CM36D	#3 MED	1062	1029	993	964	929	879	778
		#2 MED-LO	860	822	791	761	682	616	568
		#1 LO	642	599	554	502	431	367	294
		#5 HI	1583	1546	1516	1477	1435	1401	1364
	CM42D	#4 MED-HI	1499	1456	1426	1393	1349	1306	1267
		#3 MED	1295	1247	1217	1181	1135	1080	1005
		#2 MED-LO	1099	1075	1026	983	909	840	786
		#1 LO	906	875	834	754	675	589	521
ME14D	CM36D	#5 HI	1604	1563	1524	1479	1450	1410	1374
		#4 MED-HI	1508	1464	1428	1384	1350	1308	1271
		#3 MED	1300	1250	1209	1175	1132	1075	1006
		#2 MED-LO	1102	1058	1028	986	909	838	784
	CM42D	#1 LO	912	884	831	763	694	568	530
		#5 HI	1544	1520	1482	1440	1411	1367	1321
		#4 MED-HI	1455	1426	1393	1349	1305	1272	1207
		#3 MED	1263	1238	1197	1157	1100	1033	980
ME14D	CM42D	#2 MED-LO	1074	1037	993	946	877	810	729
		#1 LO	888	853	787	736	644	571	508

TABLE 11: Air Flow Data (CFM)¹

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)						
			0.10	0.20	0.30	0.40	0.50	0.60	0.70
ME16C	CM36C	#5 HI	1776	1735	1700	1657	1617	1577	1529
		#4 MED-HI	1701	1663	1621	1583	1538	1497	1453
		#3 MED	1522	1475	1442	1394	1349	1301	1245
		#2 MED-LO	1297	1250	1203	1151	1101	1050	957
		#1 LO	1112	1052	1002	951	854	816	758
	CM42C	#5 HI	1754	1719	1678	1644	1599	1562	1513
		#4 MED-HI	1676	1637	1599	1562	1517	1476	1423
		#3 MED	1495	1454	1411	1371	1328	1280	1233
		#2 MED-LO	1286	1235	1198	1143	1097	1036	992
		#1 LO	1119	1055	1006	948	900	804	752
	CM48C	#5 HI	1769	1727	1689	1650	1608	1568	1525
		#4 MED-HI	1692	1648	1605	1568	1525	1485	1440
		#3 MED	1554	1505	1461	1420	1373	1326	1273
		#2 MED-LO	1308	1256	1213	1164	1088	1007	941
		#1 LO	1116	1057	1007	955	839	792	741
	CM60C	#5 HI	1794	1757	1720	1686	1639	1589	1545
		#4 MED-HI	1700	1664	1624	1582	1543	1496	1443
		#3 MED	1530	1484	1444	1402	1356	1314	1257
		#2 MED-LO	1305	1257	1217	1162	1115	1060	993
		#1 LO	1124	1060	1008	954	889	827	755
ME20D	CM36D	#5 HI	2061	2021	1979	1938	1904	1865	1829
		#4 MED-HI	1998	1949	1914	1879	1835	1797	1756
		#3 MED	1769	1711	1677	1643	1603	1570	1530
		#2 MED-LO	1557	1508	1469	1439	1398	1355	1323
		#1 LO	1340	1291	1252	1216	1170	1132	1058
	CM42D	#5 HI	2032	1996	1959	1913	1890	1849	1820
		#4 MED-HI	1974	1938	1892	1855	1824	1785	1754
		#3 MED	1752	1706	1680	1633	1591	1546	1511
		#2 MED-LO	1545	1505	1468	1432	1393	1351	1307
		#1 LO	1340	1296	1260	1219	1169	1118	1055
	CM48D	#5 HI	2062	2024	1993	1952	1910	1868	1836
		#4 MED-HI	2006	1958	1932	1890	1850	1815	1770
		#3 MED	1785	1741	1698	1646	1610	1582	1538
		#2 MED-LO	1564	1521	1477	1443	1398	1362	1323
		#1 LO	1350	1305	1257	1226	1181	1112	1029
	CM60D	#5 HI	1998	1959	1923	1888	1862	1826	1786
		#4 MED-HI	1933	1887	1855	1811	1791	1757	1719
		#3 MED	1703	1670	1633	1592	1567	1531	1485
		#2 MED-LO	1522	1474	1447	1403	1370	1328	1281
		#1 LO	1306	1260	1223	1190	1131	1078	1012
CM64D	#5 HI	1940	1897	1868	1832	1806	1770	1728	
	#4 MED-HI	1883	1860	1829	1789	1761	1728	1688	
	#3 MED	1686	1648	1619	1584	1537	1508	1466	
	#2 MED-LO	1490	1446	1415	1385	1346	1298	1236	
	#1 LO	1279	1248	1206	1167	1113	1062	972	

1. Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Airflow data shown is from testing performed at 230V. AE units use a standard ECM constant torque motor, and there is minimal variation of airflow at other distribution voltage values. The above data can be used for airflow at other distribution voltages.

SECTION XI: AIR SYSTEM ADJUSTMENT

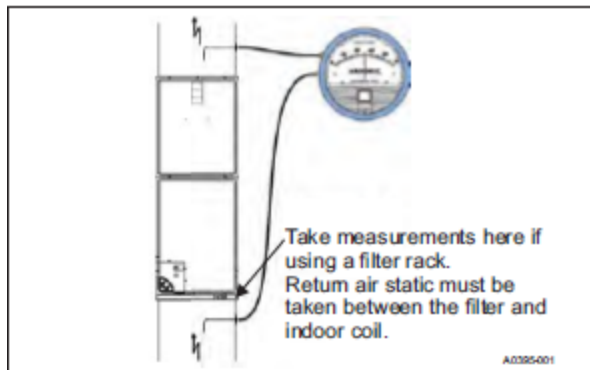
To check the Cubic Feet per Minute (CFM), measure the static pressure drop across the air handler using a manometer and static pressure tips. To prepare coil for static pressure drop measurements run the fan only to assure a dry coil.

NOTICE
Refer to Table 9 for coil Air Flow Data of Cubic Feet Per Minute (CFM). Run the fan on the highest speed to be used.

Drill 2 holes, one 12" away from the air handler in the supply air duct and one 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips and read the pressure drop from the manometer. See Table 9 to determine the air flow, and make the necessary adjustments to keep the CFM within the airflow limitations of the coil.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together. This is total system static. If a filter rack is installed on the return air end of the air handler or indoor coil section, the return air duct static must be measured between the filter and the indoor coil.



PTCS External Static Pressure – CFM Manufacturer Lookup Tables

Manufacturer: York

Model: MVC Series

SECTION IX: AIRFLOW AND COMFORT SETTING SELECTION

AIRFLOW SELECTION

When not using communicating functionality, the airflow and comfort setting selection jumpers must be set properly at the time of installation for proper system operation. Place jumpers in the proper locations based on the information shown in Tables 8 & 15.

Inputs to air handler control board are passed to the motor which determines the target CFM to be delivered. The following inputs will produce the CFM per the appropriate table and selected tap settings.

NOTICE

Incorrect airflow and comfort settings may result in decreased system efficiency and performance.

These variable speed air handlers are designed to deliver constant airflow (CFM) regardless of the external static pressure (ESP) in the ductwork. Therefore, if too many supply registers are closed, a filter becomes clogged, or there is a restriction in the ductwork, the motor will automatically operate at a higher speed to compensate for the higher ESP. This may result in a higher operating sound level and motor damage.

To Set Cooling Airflow:

Refer to the outdoor unit technical guide for the recommended airflow with the matching indoor coil. Refer to Table 15 for the possible high speed cooling and heat pump airflow selections.

Find the recommended system airflow in Table 15 for the installed air handler model and outdoor unit.

Select the COOL airflow you need from Table 15. Set the COOL and ADJUST Jumpers on the control as indicated in Table 15.

TABLE 8: Electrical Heat - Minimum Fan Speed

Heater Kit Models ^{1,2,3}	Nom. kW @240V	Air Handler Models				
		MVC08B	MVC12B	MVC14D	MVC16C	MVC20D
6HK(0,1)6500206	2.4kW	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500506	4.8kW	Med (C)	Med Lo (D)	Med Lo (D)	Med Lo (D)	Med Lo (D)
6HK(0,1)6500806	7.7kW	Med Hi (B)	Med Lo (D)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(0,1)6501006 6HK36501025	9.6kW	Med Hi (B)	Med Lo (D)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501306	12.5kW	Hi (A)	Med Hi (B)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501506 6HK36501525	14.4kW	–	Hi (A)	Med (C)	Med Lo (D)	Med Lo (D)
6HK(1,2)6501806 6HK36501825	17.3kW	–	Hi (A)	Med Hi (B)	Med (C)	Med (C)
6HK(1,2)6502006 6HK46502025	19.2kW	–	Hi (A)	–	Med Hi (B)	Med (C)
6HK(1,2)6502506 6HK46502525	24kW	–	–	–	–	Med (C)

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.

2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.

3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

To Set Heat Pump Airflow:

The heat pump airflow setting is the same as the cooling airflow setting. No additional airflow setting is required. However, you must set the AC/HP jumper to the HP position for proper system operation (See Figure 10).

To Set Electric W1 Heat Airflow:

The blower speed required for 1st stage electric heat is different than cooling. Refer to Table 15 for the possible CFM selections. Refer to Table 8 for the minimum required airflow for the electric heater installed. Find the desired airflow in Table 15 for low heat. Set the HEAT jumper on the control as indicated in Table 15.

To Set W2 Electric Heat Airflow:

Airflow for any W2 input, which is for Stages 2 & 3 of electric heat, is the indicated CFM for high heat tap selection on Table 15.

⚠ CAUTION
<i>DO NOT change the ADJUST tap position on the control as this will change your cooling airflow previously selected.</i>

Blower Ramp-Up /Ramp-Down:

To minimize the sound made by the blower when it speeds up or slows down, the blower will slowly ramp up or down from one speed to another. Changes in blower speed during A/C or heat pump heating can take up to 30 seconds. Changes in blower speed during electric resistance heating can take up to 15 seconds.

COMFORT SETTINGS

TABLE 5: Comfort Setting Selection

DELAY TAP	COMFORT SETTING
A	Normal
B	Humid
C	Dry
D	Temperate

Normal

The normal setting provides a ramp-up from zero airflow to full capacity and a ramp-down from full capacity back to zero airflow.

Humid

The humid setting is best-suited for installations where the humidity is frequently very high during cooling season, such as in the southern part of the country. On a call for cooling, the blower will ramp up to 50% of full capacity and will stay there for two minutes, then will ramp up to 82% of full capacity and will stay there for five minutes, and then will ramp up to full capacity, where it will stay until the wall thermostat is satisfied.

Dry

The dry setting is best suited to parts of the country where excessive humidity is not generally a problem, where the summer months are usually dry. On a call for cooling the motor will ramp up to full capacity and will stay there until the thermostat is satisfied. At the end of the cooling cycle, the blower will ramp down to 50% of full capacity where it will stay for 60 seconds. Then it will ramp down to zero.

Temperate

The temperate setting is best suited for most of the country, where neither excessive humidity nor extremely dry conditions are the norm. On a call for cooling, the motor will ramp up to 63% of full capacity and will stay there for 90 seconds, then will ramp up to full capacity. At the end of the cooling cycle, the motor will ramp down to 63% of full capacity and will stay there for 30 seconds, then will ramp down to zero.

TABLE 15: Air Flow Data (CFM)¹

High/Low Speed Cooling and Heat Pump CFM											
CFM											
Cool Tap	ADJ Tap ²	MVC08B		MVC12B		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	B	1022	562	1350	878	1425	1037	1760	1144	1935	1316
B	B	795	437	1238	804	1425	910	1540	1001	1772	1152
A	A	900	495	1200	780	1425	926	1600	1040	1800	1170
B	A	700	385	1100	715	1250	813	1400	910	1575	1024
A	C	783	431	1050	683	1268	824	1424	926	1665	1082
C	B	766	421	1125	731	1344	874	1320	858	1491	969
B	C	609	335	963	626	1113	723	1246	810	1457	947
D	B	568	312	900	585	1120	728	1100	715	1350	878
C	A	675	371	1000	650	1200	780	1200	780	1325	861
D	A	500	275	800	520	1000	650	1000	650	1200	780
C	C	587	323	875	569	1068	694	1068	694	1226	797
D	C	435	239	700	455	890	579	890	579	1110	722
m3/min											
Cool Tap	ADJ Tap ²	MVC08B		MVC12B		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	B	28.9	15.9	38.2	24.8	40.4	29.4	49.8	32.4	54.8	37.3
B	B	22.5	12.4	35.0	22.8	40.4	25.8	43.6	28.3	50.2	32.6
A	A	25.5	14.0	34.0	22.1	40.4	26.2	45.3	29.4	51.0	33.1
B	A	19.8	10.9	31.1	20.2	35.4	23.0	39.6	25.8	44.6	29.0
A	C	22.2	12.2	29.7	19.3	35.9	23.3	40.3	26.2	47.1	30.6
C	B	21.7	11.9	31.9	20.7	38.1	24.7	37.4	24.3	42.2	27.4
B	C	17.2	9.5	27.3	17.7	31.5	20.5	35.3	22.9	41.3	26.8
D	B	16.1	8.8	25.5	16.6	31.7	20.6	31.1	20.2	38.2	24.8
C	A	19.1	10.5	28.3	18.4	34.0	22.1	34.0	22.1	37.5	24.4
D	A	14.2	7.8	22.7	14.7	28.3	18.4	28.3	18.4	34.0	22.1
C	C	16.6	9.1	24.8	16.1	30.2	19.7	30.2	19.7	34.7	22.6
D	C	12.3	6.8	19.8	12.9	25.2	16.4	25.2	16.4	31.4	20.4
High/Low Speed Heat CFM											
CFM											
Heat Tap	ADJ Tap ²	MVC08B		MVC12B		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	Any	1025	980	1225	1020	1425	1050	1650	1200	1825	1150
B	Any	960	960	1150	950	1325	1000	1550	1150	1775	1050
C	Any	725	725	950	750	1125	950	1375	1050	1570	1000
D	Any	580	580	725	725	900	900	1150	1000	1375	950
m3/min											
Heat Tap	ADJ Tap ²	MVC08B		MVC12B		MVC14D		MVC16C		MVC20D	
		High	Low	High	Low	High	Low	High	Low	High	Low
A	Any	29.0	27.8	34.7	28.9	40.4	29.7	46.7	34.0	51.7	32.6
B	Any	27.2	27.2	32.6	26.9	37.5	28.3	43.9	32.6	50.3	29.7
C	Any	20.5	20.5	26.9	21.2	31.9	26.9	38.9	29.7	44.5	28.3
D	Any	16.4	16.4	20.5	20.5	25.5	25.5	32.6	28.3	38.9	26.9

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.50" w.c. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.

2. The ADJ tap does not affect the HEAT tap setting. Low speed cooling used only with two stage outdoor units. Speed is preset to 65% of high speed. Dehumidification speed is 85% of jumper selected COOL tap and ADJUST tap. At some settings, LOW COOL and/or LOW HEAT airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details. Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.

SECTION XII: AIR SYSTEM ADJUSTMENT

To check the Cubic Feet per Minute (CFM), measure the external duct static using a manometer and static pressure tips. To prepare coil for static pressure drop measurements run the fan only to assure a dry coil. Drill 2 holes, one 12" away from the air handler in the supply air duct and one 12" away from the air handler in the return air duct (before any elbows in the duct work). Insert the pressure tips and read the pressure drop from the manometer.

EXTERNAL DUCT STATIC

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.

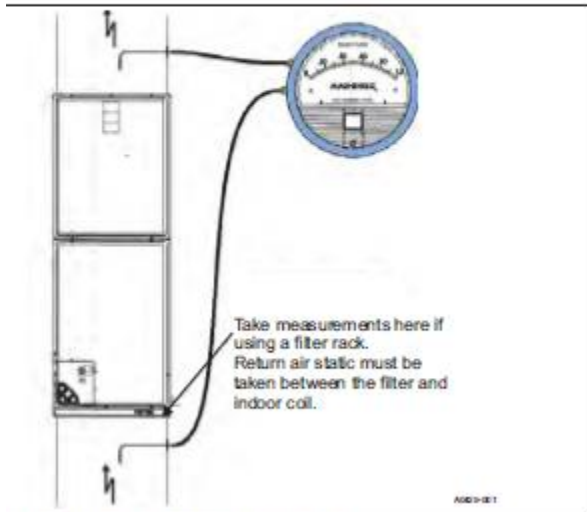


FIGURE 15: Duct Static Measurements