

PTCS Ground Source Heat Pump Quality Assurance Inspection Form

All fields are required, except notes and fields marked not required (NR). Inspectors should have a copy of the submitted installation data available to them. Last updated: April 2022

	Outdoor Tem	ip ^o F	Insp. Date			Insp. Tim	ne	
Inspector	Utility			Measure	9			Re-inspection?
Name	Name			ID				🗌 Y 🗌 N
Site		Site		S	Site	S	Site	
Address		City		S	State	Z	2ip	
Utility staff present. Name:		stall tech prese	nt. Name:	·	Н	eated Area	a <i>(NR</i>):	s Sq Ft
Closed Loop Open Loop [Water-To	-Air System	Water	-To-Wate	er Syste	m		

The graded items below will not be weighted upon entry into the registry. Inspector manually assigns an overall grade.

****Overall fail:** These noted 'F' grades are considered major failures.

Heat Pump Equipment Data

All Equipment Data matches technician's form. If not, record below.

AHRI	Outdoor Unit Make		Indoor Heat Pump		With	
number			Model #		Desuperheater? ^{Yes} No	
Is Energy Star Grade (Check one)	A (Above Spec) Is Energy Star and exceeds minimum	B (Meets Spec) Is Energy Star		**F (Fails) Is not Energy Star		
Notes						

Air Flow QA

Testing Method Use	Units tested in	NSOP		Plate Siz		TFSOP			
QA unobserved ESP-CFM (complete True Flow Test) OriginalTrue Flow			□ Pa □ H ₂ 0	NSOP		Plate Siz	-	TFSOP	
Plate Pressure	Capacity (tons)	Correction Factor	Raw Flow	*Corrected /Total Flow		CFM/Tor – Tech	ו	*CF – Q	M/Ton A
Plate Pressure	Capacity (tons)	Correction Factor	Raw Flow	*Corrected /Total Flow		CFM/Ton – Tech		*CF – Q	M/Ton A
Air Flow (CFM) Grade (Check one)	 irade A (Pass) 325 to 500 CFM/Ton A (Pass) Tech value submitted by technician for ESP-CFM methodology meets program requirements. A (Pass) Exception granted for airflow below 325 CFM/Ton or over 500 CFM/Ton if it meets manufacturer specifications. 								nan 500 CFM/ loes not meet ufacturer
*If using Digital/Bluetooth True Flow, only fill out these cells. If plate is located at filter grille or on an air handler with no plenum, add 4% to corrected flow.									

Notes

Refrigerant Charge For W-A Units Only

Heating	Supply Air Temp.	Return Air Temp.	Temp. Split		Notes
Cooling	°F	⁰ F		^o F	
		B (Meets Spec) F (Fail			
Temperature	B (Meets Spee	c) 🛛 🗌 F (Fail:	s) Less than	Notes	
Temperature Split Grade	B (Meets Spece Everything passes unle	· · ·	s) Less than mperature -	Notes	

Digital/Bluetooth TrueFlow Test	1. Capacity	2. **Corrected/Total Airflow	3. **CFM/ton

Controls

Strip Heat Lockout Set	То	Notes		
Strip Heat Lock Out Grade (Check one)	30F and actually	ec) Set to less than does inhibit the strip n coming on	B (Meets Spec) Set to 30F and actually does inhibit the strip heat from coming on	Set to incorrect number

Sizing

Method used by installer:	E Heat Pump Sizing Calculator	Balance Point	Contractor inputs reflect the actual situation?	
*Balance Point Grade (Check one)	A (Above Spec) Balance point below 25F with entering water temp no less than 30F	Meets 25	B (Meets Spec) F balance point with er temp no less than 30F	**F (Fails) Does not meet program specs
Notes				

*Open Loop Specific Criteria

	A (Above spec)	B (Meets spec)	C (Passable)	F (Fails)	Grade 'F' is Automatic Fail
Balance Gra	 Balance Point below 25F	Meets 25F balance point		Greater than 25F or not provided	

Additional notes

Overall Heat Pump Inspection Results

Inspector to determine overall letter grade.

Letter Grade: _____ Pass/Fail: _

After completing this inspection, it is my recommendation that this technician be placed on a Corrective Action Plan and receives additional guidance. Checking this box upon entering this inspection into the registry will serve to notify BPA of my recommendation. The customer's utility will be notified and will act according to their process.

Inspector Signature:

Date:

PRIVACY ACT STATEMENT

Basic authority for collecting this information is authorized by 16 U.S.C. §§ 832 et. seq., and 838 et. seq., pursuant to Bonneville Power Administration's Conservation Program system of records established in 46 FR 31700.

This information is primarily intended to further, but is incidental to the performance of, BPA's overall Energy Efficiency Program, the objective of which is to acquire energy resources through energy efficiency, to determine what cost-effective conservation and direct application renewable resources measures should be installed or adopted under different circumstances, and to provide incentives for the installation of such measures.

Other routine issues of this information include: aggregation into a public database on energy efficiency; furnished to authorized personnel for installation/repair of equipment; aggregated into a database for program publicity; and in some instances information regarding buildings will be made available to subsequent purchasers of the buildings. Your disclosure of the requested information is voluntary, however failure to provide requested information means that it will not be possible for you to participate in this BPA Energy Efficiency program

