

PTCS® Air Source Heat Pump Form (optional)

- 1) Enter all data on a mobile device or computer at ptcs.bpa.gov using the certified technician's account. This optional form can be filled out for later entry online. Issues entering data? Submit this form for entry:
 - Customers of Bonneville Power Administration (BPA) utilities: email <u>ResHVAC@bpa.gov</u>, fax to 1.877.848.4074, or call 1.800.941.3867
 - Customers of PGE or Pacific Power: email Residentialforms@energytrust.org or call 1.866.365.3526
- 2) Submit the Registry Installation Report (found online) and additional required documents to the customer utility.

 Unless requested by the utility, submission of this form is not required.

Site	 IIII	uou

PTCS Tech #	PTCS Tech Name			Install Electric Date Utility		Electric Utility			
Installation	1				Site			Site	Site
Site Address				City			State	Zip	
Home Type:	sting Site Bu	ilt 🗌 Nev	v Construction	Site Built	Manufacture	d: # of Se	ctions 🗌	1 2 3	
Heated Area:		Sq Ft Foundation Type (Site Built): Crawlspace Full Basement Half Basement Slab						ent Slab	
Existing Heating Syst	tem Being R	eplaced (If r	new home, in	dicate he	eating system inst	alled):			
☐ Electric Forced Air w/out AC ☐ Electric Forced Air w/ AC ☐ Electric Zonal ☐ Air Source Heat Pump ☐ Ground Source Heat Pump								Heat Pump	
Natural Gas Furna	ace (Gas Cor	mpany:			_)	Electric Sp	oace Heatin	ıg:	
Back up Heat: No	one 🗌 Elec	tric Forced A	Air 🗌 Electric	Zonal [Natural Gas Furna	ace 🗌	Non-Electri	c Space Heating	
New Heat Pump Equipment Data *If less than 9.0 HSPF or 14 SEER, check with utility for requirements.									
AHRI#	RI# SEER*			HSPF*			Outdoor HP Capacity (tons)		
Heat Pump Make		Outdoor HP					_	Non Variable Speed HP Compressor	
IVIANC		Model #				v	☐ Variable Speed HP Compressor		
	-	Indoor HP Model #			Balance Point?				
	Model # Provide BP documentation to utility.						ion to utility.		
Did you perform all of your tests in Test Only/Check Charge mode? Yes No N/A									
External Static Pressure Test Check unit operating at full capacity unless conditions do not permit.									
1. Measure return static pressure 1. Retur		urn Statio	n Static Pressure		Units	Units: <u>Use same units for TrueFlow test</u>			
2. Measure supply plenum static pressure					□ P	Pa Inches H2O			
3. Calculate external static pressure: add values 2. Supp		ply Static	ly Static Pressure		3. Ex	3. External Static Pressure			
in #1 and #2 values; ignore the minus sign									
TrueFlow Test									
Measure NSOP (Normal System Operating Pressure) [A]		1. NS0	OP [A]	2a. Plat	te Size:	2b. Plate location	:		
2. Check TrueFlow plate size and location					20 Air Handler Return Grille		Return Grille		
			3. TFS	OP [B]	4. Correction Factor [C] from table				
4. Calculate Correction Factor [C]					or calculate $\sqrt{([A]/[B])}$				
' '			5. Pla	6. Raw Flow CFM					
6. Enter Raw Flow CFM from tables [D]				from tables [D]					
7. Calculate Corrected Flow			7. Corrected Flow			8. CFM/ton			
8. Calculate CFM/ton		CFIM	= [C] x [D]						

Refrigerant Charge Check	Run unit for at least 15 minutes in compressor-only mode before taking readings.				
Outside Air Temp ^o F	Mode unit tested in: \square Heating (if $\leq 65^{\circ}$ F) \square Cooling (if $> 65^{\circ}$ F)				
Heating Mode (65°F or lower)	Cooling Mode (higher than 65°F)	Alternative Test Method			
Supply Air (SA) Temp	Discharge Pressure	Specify method used			
Return Air (RA) Temp	Discharge Temp [A]	Target			
Temp Split (SA – RA)	Liquid Line Temp [B]	Test result			
Expected Temp Split from table:	Sub cooling [A] – [B]	Meets specification?			
Controls					
Compressor Low Ambient Lockout control (LA Yes Not Installed/Disabled Non-Ele	•	Auxiliary (strip) heat lockout has been set to: 35°F Below 35°F			
HP Thermostat Make	HP Thermostat Model				
Is this a Multiple Capacity Compressor system Yes; The discharge air sensor control is use Yes; The staging thermostat is set warmer to No, this does not apply.	d to control auxiliary heat and is set no hig				
Notes					