

PTCS® Air Source Heat Pump Optional Data Collection Tool

- 1) Enter all data into the registry 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 ResHVAC@bpa.gov, 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 Information

PTCS Tech #	PTCS Tech Name	Install Date	Electric Utility	
Installation Site Address		Site City	Site State	Site Zip
Home Type: <input type="checkbox"/> Existing Site Built <input type="checkbox"/> New Construction Site Built <input type="checkbox"/> Manufactured: # of Sections <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3				
Heated Area: _____ Sq Ft		Foundation Type (Site Built): <input type="checkbox"/> Crawlspace <input type="checkbox"/> Full Basement <input type="checkbox"/> Half Basement <input type="checkbox"/> Slab		
Existing Heating System Being Replaced (If new home, indicate heating system installed):				
<input type="checkbox"/> Electric Forced Air w/out AC <input type="checkbox"/> Electric Forced Air w/ AC <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Air Source Heat Pump <input type="checkbox"/> Ground Source Heat Pump <input type="checkbox"/> Natural Gas Furnace (Gas Company: _____) <input type="checkbox"/> Other Non-Electric Space Heating: _____				
Back up Heat: <input type="checkbox"/> None <input type="checkbox"/> Electric Forced Air <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Natural Gas Furnace <input type="checkbox"/> Non-Electric Space Heating				

New Heat Pump Equipment Data

**If less than 9.0 HSPF or 14 SEER, check with utility for requirements.*

AHRI #	SEER*	HSPF*	Outdoor HP Capacity (tons)
Heat Pump Make	Outdoor HP Model #		<input type="checkbox"/> Non Variable Speed HP Compressor <input type="checkbox"/> Variable Speed HP Compressor
	Indoor HP Model #		Balance Point? _____ Provide BP documentation 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. Return Static Pressure	2. Supply Static Pressure	3. External Static Pressure
2. Measure supply plenum static pressure	<input type="checkbox"/> Variable speed system's ESP meets manufacturer's specifications	Maximum ESP allowed by manufacturer	Units: <u>Use same units for TrueFlow</u> <input type="checkbox"/> Pa <input type="checkbox"/> Inches H2O
3. Calculate external static pressure (ESP): add values in #1 and #2 values; ignore the minus sign			

TrueFlow Test Not required for variable speed systems or if you complete External Static Pressure - CFM Manufacturer Lookup Table below.

Original True Flow Test 1. Measure NSOP (Normal System Operating Pressure) [A] 2. Check True Flow plate size and location 3. Measure TFSOP (Supply Pressure with True Flow Plate) [B] 4. Calculate Correction Factor [C] 5. Measure plate pressure 6. Enter Raw Flow CFM from tables [D] 7. Calculate Corrected Flow 8. Calculate CFM/ton	1. NSOP [A]	2a. Plate Size: <input type="checkbox"/> 14 <input type="checkbox"/> 20	2b. Plate location: <input type="checkbox"/> Air Handler <input type="checkbox"/> Return Grille
	3. TFSOP [B]	4. Correction Factor [C] from table or calculate $\sqrt{[A]/[B]}$	
	5. Plate Pressure	6. Raw Flow CFM from tables [D]	
	7. Corrected Flow CFM = [C] x [D]	8. CFM/ton	

