

$\mathsf{PTCS}^\mathsf{TM}$ Commissioned Heat Pump Certificate & Startup Form

All sections must be filled out by a PTCS-certified Technician at the time of installation. A copy of the completed form must be promptly submitted to the utility and homeowner in accordance with utility policy. Please enter online at www.ptcsnw.com or fax to 877-848-4074.

Questions? Call 800-941-3867 or email reshvac@bpa.gov Last updated: January 2012.

Site Information

PTCS #	Installation Company				Electric Utility				
					Street Address				
Customer Name			Street Add		Street Addres	225			
Site#/Mailing Address			City S:		State	Zip Code	Phone Number		
Dice#7 Mailing Addi 655			lity		отить	21p 0000	THORE NUMBER		
Site Built Exi	sting New Construction	<u> </u>			Manufactured Hor	ne 🔲 Y 🔲 N			
Year Built:				Sections	1 2 3				
Energy Star? 🔲	/				Energy Star?	\square Y \square N			
Foundation: Ha	lf Basement 🔲 Full Basemen	rawl Space Slab			Super Good Cents? Y N				
Old heating system being replaced:			nace Heat Pump Gas Furnace		Heated Area (sq ft.)				
(check if kept as back up heat 🔲) 🔲 Other (specify):									
New Heat Pump Equipment Data									
AHRI #	IRI# SEEI		R HSPF			EER			
Outdoor (OD)			OD Unit Mod. #			Number of compressor stages or			
Unit Make					☐ Inverter driven heat pump				
Indoor (ID)			ID Unit Mod. #		Capacity (tons)				
Unit Make									
External Static Pressure Test									
Check in full capa	city unless conditions do not p	ermit	. Attach additional she	ets as needed	f test must be	re-run			
1. Record expected CFM/ton based on fan wiring			1. Heating CFM/ton Setting 1. Cool		1. Cooling CFN	ng CFM/Ton Setting Note: External Static			
board settings.					Pressure of 200 Pa (0.8				
2. Measure return static pressure.			2. Return Static Pressure Units (ch		Unite (ahaak	in. $H_2\mathbb{O}$) or more in Step			
3. Measure supply plenum static pressure.			□ Pa □ In		Units (check one) ☐Pa ☐Inches H ₂ D		can result in extreme fan		
4. External Static Pres. add					energy use and early fan				
#2 and #3 values together (ignore minus sign)			3. Supply Plenum Static Pressure		4. External Static Pressure		failure		
TrueFlow Test									
		1	/ NOOD (A)	ח חי	Π·	Tu.,			
1. Measure Normal System Operating Pressure			1. NSOP (A) 2. Plate Size		Units				
(NSOP).		}							
2. Check TrueFlow plate size			3. Filter Location: Air Handler Return Grille						
3. Note TrueFlow plate location Other (specify):									



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4.Measure Supply Pressure with TrueFlow plate in (TFSOP)	4. TFSOP [B]	5. CF from tab	5. CF from table or square root of \((NSOP/TFSOP)		
5. Enter Correction Factor (CF)	6. Plate Pressure	Raw Flow CFM	Raw Flow CFM from tables (D)		
6. Measure plate pressure					
7. Enter Raw Flow CFM	7. Corrected Flow	CFM/ton	Is flow above 350CFM/ton?		
8. Calculate Corrected CFM (Raw Flow x CF) and CFM/ton	$CFM = [CF] \times [D]$		<u></u> ГУ		
Refrigerant Charge Information/Te	esting				
Does indoor unit have an ECM blower? ☐Y ☐N	Outdoor air temp.	l ·	65 ⁰ F test in cooling, if lower test in heating. Unit tested in Heating. Cooling.		
	Total lineset length	Refrigerant Adjustmen	_		
Other (specify):	ft.	Addedoz. Removedoz. None			
Heating Mode (65 ⁰ F or lower) Supply Air (SA) Temperature	Cooling Mode (high	er than 65 ⁰ F)	Alternative Method (specify) Other method used?		
<u> </u>			. ,		
	_				
Return Air (RA) Temp.	Discharge Temp. (A		Manufacture Target		
Temperature Split (SA – RA)	Liquid Line Temp. (8	3]	Test result		
Expected Temp Split from chart	Subcooling (A) - (B]	ls it acceptable? ☐ Y ☐ N		
ls it acceptable? 🔲 Y 🔲 N	ls it acceptable?	□Y □N			
Controls					
For ALL systems (single and multi-stage compress	ors. Compressor low-	Make/Model of inc	Make/Model of indoor thermostat		
ambient lockout control (LAL) setting					
O FOF or LAL not installed		Auxiliary (strip) h	eat lockout > $\square 35^{0}$ F $\square 40^{0}$ F \square Other:		
Single Capacity Compressor Systems		1			
Confirm discharge air temp. sensor is either not in	stalled or is disabled	Confirmed			
Multiple Capacity Compressor systems (applica	* *				
If the discharge air sensor control is used to c	•	_			
\square If staging thermostat is set warmer than 85 0 F	confirm resistance heat	can not operate at temp	peratures above 35 ^U F		
Notes:					
notes.					



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Required Customer and Technician Signatures

To be filled out by the electrical utility account holder. This form must be signed by the person whose name appears on the electric utility account.							
ENERGY INFORMATION RELEASE: The undersigned utility customer requests and authorizes the specified utility to release billing and usage information for							
the account listed below to the PTCS program. With this authorization, the PTCS program can request billing information for up to two years pre-							
installation and two years post-installation. The utility customer also hereby releases the utility company from any and all liability arising from or							
connected with providing this information.							
Electric Utility:	Account #:						
A (1.11							
Account holder name:							
		l p .					
Account holder signature:		Date:					
By signing below, technician certifies that this form and any accompanying documentation are complete and accurate, and that all measures associated							
with this project were completed as of the signature date below.							
Technician name:							
Technician signature:		Date:					
		I .					

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.

