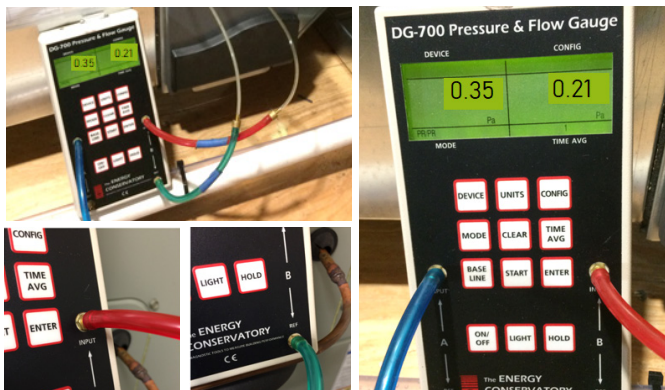


## 5. Measure Plate Pressure



6. Enter Raw Flow CFM; refer to plate pressure and plate size (based on H2O or Pascal) on Flow Conversion table to locate Raw Flow
7. Calculate Corrected Flow (CFM=Correction Factor x Raw Flow CFM)
8. Calculate CFM/ton (CFM/ unit tonnage)
9. Enter data in PTCS registry

5

Perform Refrigerant Charge Check. Run in heating mode if outdoor temperature is <65°F and run in cooling mode if >65°F.

1. Run unit for at least 15 minutes in compressor-only mode
2. Take Readings
3. Enter data in PTCS registry



6

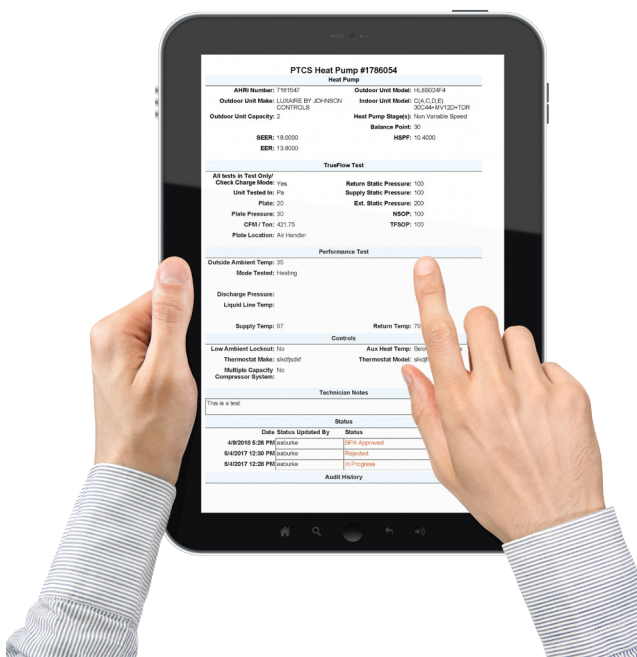
Verify Control Settings; Strip Heat = 35°, Thermostat Make/Model, multiple capacity compressor (Y/N) and enter data in PTCS Registry.

7

Enter all data onto mobile device or computer at [ptcs.bpa.gov](http://ptcs.bpa.gov) using the certified technician's account.

8

Submit the Registry Installation Report and additional required documents to the customer utility. Check with utility if the PTCS Air Source Heat Pump Form is required.



Contact PTCS at  
[ResHVAC@bpa.gov](mailto:ResHVAC@bpa.gov) or  
 1.800.941.3867

## How To: PTCS Test for a Ducted Air Source Heat Pump



**COMPANY**  **LOGO**  
 PUBLIC UTILITIES

UTILITY NAME  
 UTILITY PHONE  
 UTILITY ADDRESS LINE 1  
 UTILITY ADDRESS LINE 2  
 UTILITY WEBSITE

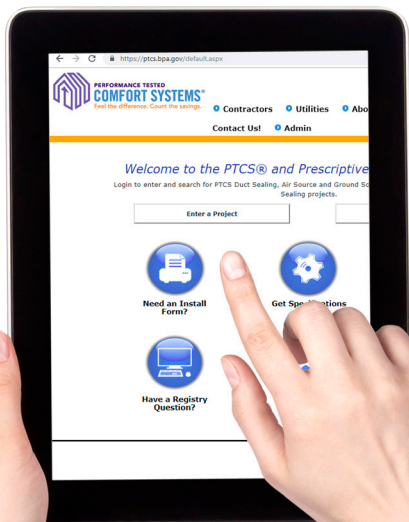
1

Install the Heat Pump



2

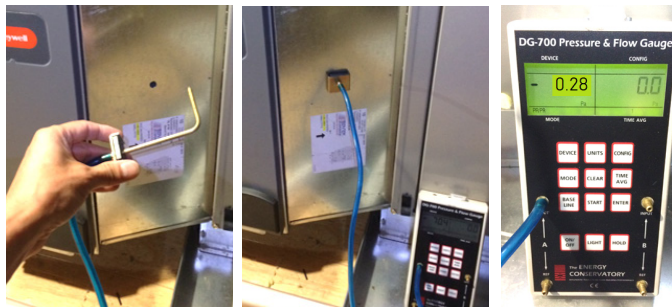
Enter Site Information and Heat Pump Equipment Data at [ptcs.bpa.gov](https://ptcs.bpa.gov) using the certified account login while performing the tests.



3

Perform External Static Pressure Test\*

1. Measure Return Static Pressure (after the filter)



2. Measure Supply Plenum Static Pressure



3. Calculate External Static Pressure (Return Static Pressure + Supply Static Pressure)

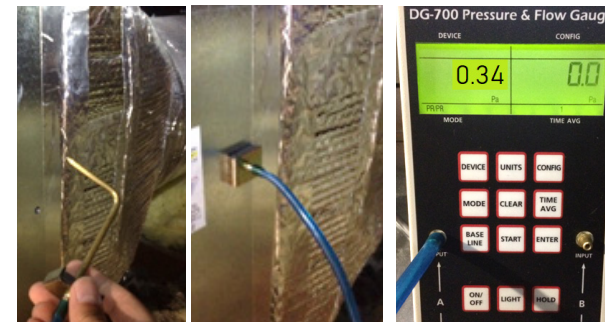
4. Enter data in PTCS registry

\*Refer to the registry entry screen or installation form for detailed instructions. See program specifications for variable speed systems.

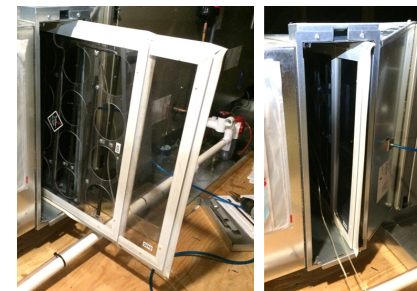
4

Perform TrueFlow Test\*\*

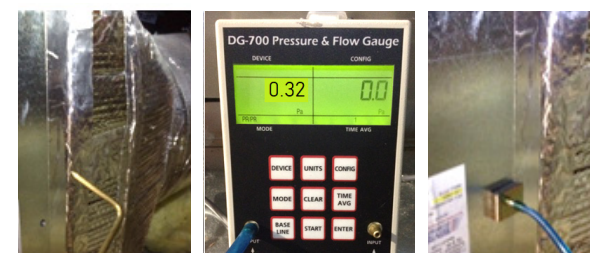
1. Measure Normal System Operating Pressure (NSOP)



2. Check TrueFlow Plate Size and Location



3. Measure True Flow System Operating Pressure (TFSOP)



4. Calculate Correction Factor (from table or the  $\sqrt{\text{NSOP/TFSOP}}$ )

\*\*See [www.energyconservatory.com](http://www.energyconservatory.com) for Digital True Flow instructions or see Estimating Airflow Using Static Pressure Measurements & Flow Tables method at [ptcs.bpa.gov/SupportMaterials.aspx](https://ptcs.bpa.gov/SupportMaterials.aspx). See program specifications for variable speed systems.

Continued on next page...