

RESIDENTIAL START UP CHECK LIST

Cond. Model # _____ Serial # _____
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Evap. Model # _____ Serial # _____
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AH/Furn. Model # _____ Serial # _____
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Elec. Heat Model # _____ Serial # _____
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Owner _____ Phone # _____ Start Up Date _____
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Owner Address _____
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Installing Contractor _____ Start Up Mechanic _____

- Check and verify model numbers to insure proper match up
- Install field accessories as required (Follow accessory installation instructions)
- If installing a TXV, carefully tighten connections and install/insulate sensing bulb
- Prior to energizing the system, inspect;
 - All factory electrical connections (tighten as needed) and verify field wiring, including accessories, transformer tap etc.
 - All refrigerant lines and capillary tubes (separate lines as needed)
- Verify thermostat parameters have been set to jobsite requirements
- Inspect and set pin selections on air handler, furnace and condensing unit (if applicable)
- Install primary and secondary drains as per I/O and local codes
- Install line set, purging with Nitrogen while brazing (Leak check refrigeration system)
- Evacuate to below 500 microns (*Must stay below 1000 microns for 7 minutes*)
- Calculate and weigh in refrigerant charge (Refer to application data sheet)
- Furnaces:* Leak check all gas connections, verify a complete and solid ground exists
- Furnaces:* If converting to LP verify the correct kit has been used and installed.
- Refrigeration Systems:* Verify airflow, operate for 15 minutes, then measure/record performance. *If heat pump, operate in both heating and cooling modes*
- Perform all other start up procedures outlined in the installation instructions and complete the data fields on page 2 of this document
- Balance system airflow to each room to insure proper distribution
- Provide owner with information packet, explaining thermostat and system operation

Residential Start-Up Information Sheet

PSC Blower (Cooling & Heat Pump) Low ___ Med Low ___ Med ___ Med High ___ High ___
 PSC Supplemental Heat Low ___ Med Low ___ Med ___ Med High ___ High ___
 Standard ECM "X13" (Cooling & Heat Pump) Low ___ Med Low ___ Med ___ Med High ___ High ___
 Standard ECM "X-13" Supplemental Heat Low ___ Med Low ___ Med ___ Med High ___ High ___
 Enhanced ECM "Variable Speed" Cool _____ Adjust _____ Heat _____ Delay _____
 Blower Current _____ **Airflow** _____ **CFM**

Forms done in fillable form will have a setting "checked". Please change to correct information (if need be). If you would like a form in non fillable form, please contact your local Virginia Air Technical Service Advisor.

Gas Furnace Natural Gas ___ LP ___ BTU/H _____ Inlet Gas Pressure (With All Gas Appliances Operating) _____ Manifold Pressure (Hi) _____ (Low) _____	Supply Temp _____ Return Temp _____ Temp Rise _____	Vent Material _____ Size ___ Total Horizontal ft ___ Total Vertical ft ___ 90's ___
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Line Set Package Unit ___ Evaporator Above ___ Below ___ The Condensing Unit
 Liquid Line Size ___ Vapor Line Size ___ Vertical Rise ___ ft. Total Length ___ ft.
 Number of Elbows ___ Under ground Pipe Y ___ N ___ Refrigerant Added ___ lbs ___ ozs

Electrical Compressor: Running Voltage _____ Compressor Current (Full Capacity) _____ AMPS
 Low Voltage C – R _____ C-Y _____ C-W _____

Refrigerant Mode of Operation Heating ___ Cooling ___ Outdoor Dry Bulb Temp _____
 Metering Device Piston Y ___ Size _____ TXV Y ___ Model _____

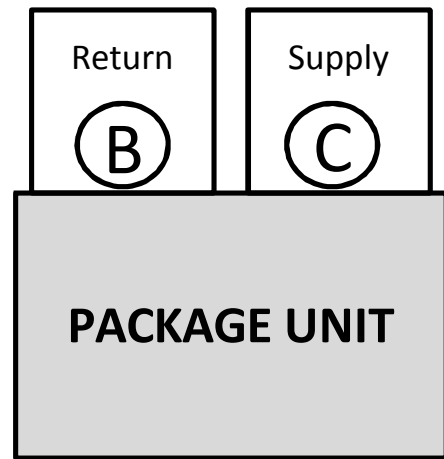
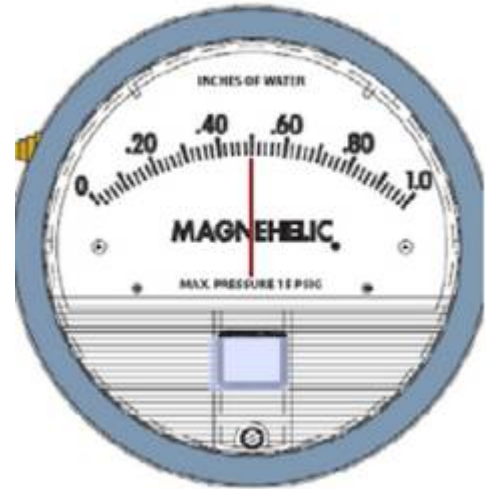
True Suction Pressure _____	Super Heat _____ Saturation Temp _____ Super Heat _____	Liquid Line Pressure _____	Saturation Temp _____ Liquid Line Temp _____ Sub Cooling _____
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Compressor Discharge Temperature _____

System Capacity **BTUH = 4.5 cfm x Δh**
 Return : Dry Bulb Temp _____ Wet Bulb _____ Enthalpy (h) _____
 Supply : Dry Bulb Temp _____ Wet Bulb _____ Enthalpy (h) _____
=ΔT _____ Δh _____ BTUH= _____

NOTES

Static Pressure Measurements



Static Pressure Measurements (inches H₂O / Show + or -)

(A) _____ (B) _____ (C) _____ (D) _____

Total External Static = B + C (ignore the negative sign) _____

Compare external static pressure to blower performance data for CFM value

Measure supply static before any duct take-offs or transitions

Airflow _____ **CFM**