RESIDENTIAL START UP CHECK LIST

Cond. Model #_____ Serial # _____
Evap. Model #_____ Serial # _____
AH/Furn. Model #_____ Serial # _____
Elec. Heat Model #_____ Serial # _____
Owner_____ Phone #_____ Start Up Date _____
Owner Address _____
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)* L / ML / M / MH / H (*Supplemental heat) L* / ML / M / MH / H

Standard ECM "X13" *(Cooling & Heat Pump)* 1 / 2 / 3 / 4 / 5 *(Supplemental heat)* 1 / 2 / 3 / 4 / 5

Enhanced ECM "variable speed" Cool _____ Adjust _____ Heat_____ Delay _____

Blower Current _____Amps **Airflow _____CFM**

Gas Furnace Natural / LP

Inlet gas pressure _____ (With all Gas Appliances Operating)

Manifold pressure (hi) _____ (low) _____

Supply Temp _____

Return Temp _____

Temp Rise _____

Line Set / (Package Unit) Evaporator (Above / Below) Condenser

Liquid Line Size _____ Vapor Line Size _____ Vertical Rise_____ ft. Total Length_____ ft.

# of Els_____ Underground pipe (Y) / (N) Length Underground_____ft.

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 (Heat/Cool)

Metering Device: (Piston Size _____) / (TXV)

Outdoor dry bulb temp _____

True Suction Pressure _____	Vapor Line Temp _____ Saturation Temp _____ Super Heat _____	Liquid Line Pressure _____	Saturation Temp _____ Liquid Line Temp _____ Sub Cooling_____

Compressor Discharge Temp _____

System Capacity (BTUH = 4.5 x cfm x Δh)

Return: Dry Bulb Temp_____ Wet Bulb _____ Enthalpy (h) _____

Supply: Dry Bulb Temp_____ Wet Bulb_____ Enthalpy (h) _____

= ΔT_____ Δh _____ BTUH= _____

Notes_____

_____

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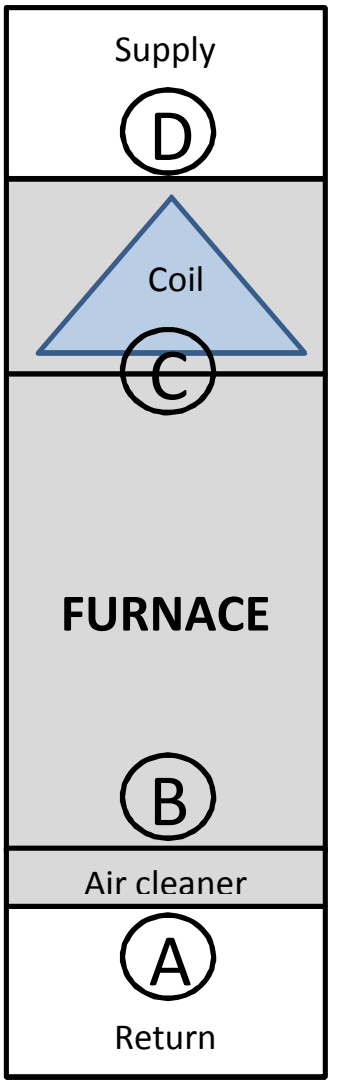
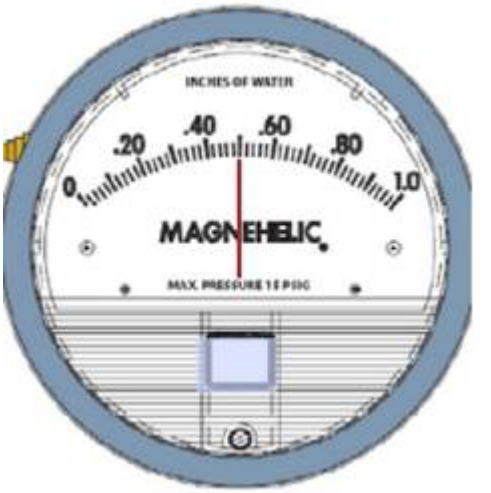
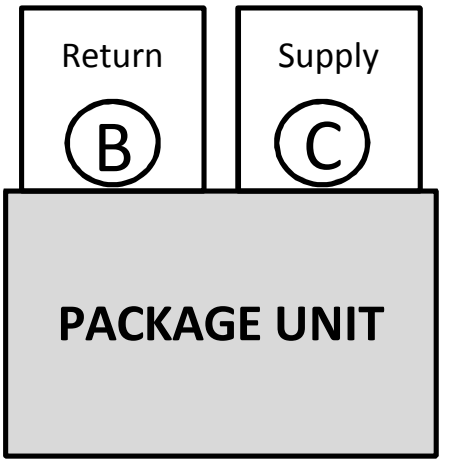
_____

_____

Static Pressure Measurements







Static Pressure Measurements (inches H_2O / Show + or -)

Ⓐ _____ Ⓑ _____ Ⓒ _____ Ⓓ _____

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