Supplied Parts
Freewatt Warm Air System

1. PRE-INSTALLATION INSPECTION

It is recommended that the dealer perform a pre-inspection of the installation site to properly plan for the installation. This pre-inspection can be performed at the time of initial quote or can be performed before the equipment arrives at the site.

The following items should be inspected:

1. Natural Gas
2. Utility Room
   - Level, Concrete Floor
   - Footprint Available for System
3. Air Intake and Exhaust Piping Locations
   - Furnace – Direct Vent Guidelines
   - MCHP – Non-Direct Guidelines
   - Concrete coring required?
4. Electrical Panel
   - Dedicated Breaker for 120 VAC Furnace Power
   - Dedicated Breaker 240 VAC line to MCHP
   - Outside Disconnect Switch required?
5. Ductwork Issues
   - Existing Upflow Furnace
   - Sizing
   - Existing Return Duct
6. Condensate Removal
7. Thermostat – 1st Floor?
8. Internet Connection
   - What type of High Speed?
   - Issues?
9. Orphaned Hot Water Heater Requiring Chimney Liner

2. SUPPLIED PARTS

The freewatt System is delivered with the following items:

1. freewatt High Efficiency, Two Stage Gas-Fired Furnace
2. freewatt Hybrid Integration Module w/ MERV 8 Air Filter
3. Honda MCHP 1.2 Z, Standard Model
4. Installation Kit, including
   A. Communicating HAI thermostat
   B. Outdoor Temperature Sensor
   C. MCHP
      - MCHP Communication Cable
      - MCHP Base w/ mounting hardware and anchors
      - MCHP Flexible Adapter Piece w/ Clamps
      - MCHP Coolant (2 gallons)
      - Coolant Tubing (12 ft. of Onix Tubing, 2 Brass Elbows, 2 Brass Barb Fittings, 2 Quick Disconnects, 8 Onix SelfTite Clamps, 1 Seatech-Barb Fitting)
   D. (1) ½" Flexible Gas Connector (½" dia.; Length: 24") with ½" NPT adapters (i.e. Brasscraft or Dormont) rated for use with a heating appliance
   E. Pressure Switch System (w/ factory-installed cable), Exhaust Coupler
   F. Exhaust Gas Sensor System
   G. Miscellaneous (2 – ½" Chase Nipples & ½" Lock Nuts, 1 - Sheet Metal Screw, 2 - Small Integration Tabs, 3 – Orange Wire Nuts, Strain Relief Loop Strap (MCHP Comm. Cable), condensate drain Y & T, rubber grommet for MCHP)

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3. CONTRACTOR-SUPPLIED EQUIPMENT AND PARTS

The freewatt System installation team will need standard HVAC tools required to install a high-efficiency direct-vented furnace as well as the following equipment to properly install the system:

- Hammer Drill
- 3/8" Concrete Drill Bit
- Digital Manometer
- Laptop Computer

The team will also need the following parts to install the system:

1. Placement:

- (4) 4" Concrete Blocks (Under Furnace & Integration Module)

2. Air Intake/Exhaust:

- 2" and/or 3" Sch 40 PVC Pipe & Fittings
- Solvent Cement
- PVC Pipe Hangers
- Silicone to Seal Opening for Pipes
- Concentric Exhaust/Air Intake Fitting?

3. Condensate Removal:

- Condensate Pump
- ½" dia. Condensate Tubing & Connectors
- Tubing Hangers, if necessary

4. Low Voltage:

- Thermostat Cable (10-conductor; Genesis - 22/10 STR CM/CL2 5C BX GRY)
- Outdoor Temperature Cable (2-conductor: Std. Thermostat Wire)
- (9) Crimp or Butt Connectors
- (2) ½" 90 El BX Connectors (HI Module & MCHP)

5. Internet Connection

- Cable & Terminations

6. High Voltage:

A. 240VAC, 60 Hz, Single Phase

- Dedicated 15 Amp Circuit
- Junction Box
- 2-Pole Switch, Appliance Service Switch
- 14-3 MC (w/ ground) Flexible Metal Conduit
- (1) ½" 90 El BX Connector (MCHP)

B. 120VAC, 60 Hz, Single Phase

- Dedicated 15 Amp Circuit
- (1) ½" 90 El BX Connector (HI Module)

7. •Natural Gas:

- Required Black Iron Pipe or equivalent for gas piping
- Pipe Dope and Tape for Black Iron Pipe

8. Coolant Tubing:

- Pipe Dope and Tape for Coolant Loop
- Tools to install Onix Tubing and SelfTite clamps