

freewatt®

Warm Air Freewatt Ready Completion Kit - Model WAZRCK

OVERVIEW

The freewatt ready furnace allows a homeowner to convert their existing forced air heating system to a new high efficiency heating system now, and provides the ability to upgrade their new high efficiency heating system to a freewatt Micro-CHP system at a later date. The warm air freewatt Micro-CHP system is completed by installing a warm air freewatt ready completion kit.

EQUIPMENT

The completion kit for the warm air freewatt system consists of the hybrid integration (HI) module, Honda MCHP unit, installation kit, pressure switch system, outdoor temperature sensor and exhaust gas sensor.

PREPARATION

If the freewatt furnace was installed per the freewatt-ready instructions, the system should be ready for completion without major rework of the gas or piping systems. The air filter enclosure and return ductwork will need to be removed from the furnace in order to install the HI module. Care should be taken to prepare the HI module for easy installation with measures taken to allow for the electrical wiring to be routed through the back of the HI module then down the inside to the internal safety junction box (this may require movement of the safety switch to the other side of the blower opening).

INSTALLATION

The drawing to the right shows the typical configuration of the furnace, HI module and Honda MCHP. Please refer to the IOM for other configurations. The communicating thermostat, Honda MCHP cable and Internet cable should be connected to the system controller as outlined in the IOM.

COMMISSIONING

The warm air freewatt system requires several commissioning steps to be fully functional. A factory-trained technician will commission the system. Complete all steps required by the local utility before interconnecting the system with the grid.

Follow the Installation Instructions found in the Warm Air freewatt System IOM, Honda MCHP IOM and ensure that the following items are performed:

Plumbing & Gas Checklist		
Check Item	Description	Checked?
Honda MCHP	Install per Honda MCHP IOM and Warm Air freewatt System (System) IOM	
Air Filter Enclosure / HI Module	Remove air filter enclosure & Install HI Module per System IOM (8-1 to 8-6)	
MCHP Coolant Tubing	Install per Honda MCHP IOM and System IOM	
Gas Piping	½" NPT female tap for the Honda MCHP gas line should be extended & connected to the MCHP using the supplied gas connector	
MCHP Vent Pipe	Install per Honda MCHP IOM and System IOM	
Pressure Switch Ass'y	Install per System IOM	
Condensate Pump	Install per manufacturer's instructions and System IOM	
Start-Up Procedures	Perform per Honda MCHP IOM and System IOM	
Commissioning	Perform per Honda MCHP IOM and System IOM	

Electrical Checklist		
Check Item	Description	Checked?
HI Module (120 VAC)	120 VAC Dedicated circuit connected to HI module per IOM	
HI Module (240 VAC)	240 VAC Dedicated circuit connected to Honda MCHP per IOM	
HAI Communicating Thermostat	The HAI communicating thermostat should be connected to the system controller. The furnace communication cable should be then be rerouted to the furnace's controller and connected per the instructions in the IOM	
Exhaust Gas Sensor	Install and connect per freewatt system and Honda IOM	
Pressure Switch Ass'y	Connect per IOM	
Outdoor Temperature Sensor	Connect per manufacturer's instructions & IOM	