

**freewatt**



A BETTER ENVIRONMENT, INSIDE AND OUT.



## YOU CAN MAKE A DIFFERENCE

freewatt is a revolutionary patented new home energy system that not only provides heat, but also generates eco-friendly electricity. By relying less on electricity from the grid, homeowners can cut back on their utility costs and environmental impact. Save the planet and your pocketbook with freewatt.

## HOW DOES IT WORK?

The freewatt system is comprised of a Honda MCHP power module, a 95% efficient ECR furnace or boiler, a communicating thermostat, a HI module and system control module. When heat is needed the freewatt thermostat signals the controller which then engages the Honda engine-generator to produce the first 12,000 BTUs of heat. As a result, 1.2 kilowatts of electric power is cogenerated by the freewatt system. When heating demand is greater than what the initial stage of heat can provide, the controller signals the ENERGY STAR furnace or boiler module to supplement the engine's heat output, matching the heat load requirement.

## TAKE THE HEAT OFF YOUR ELECTRIC BILL

With a freewatt system, homeowners can warm up to the idea of lower utility costs. By producing electricity, freewatt helps to significantly cut electric bills during the winter. So as the temperature drops, electric bills do too. Sometimes even down to zero. In some cases electricity not used in the home can be sent back to the grid for a credit. With freewatt, it pays to be green.

## GO EASY ON THE ENVIRONMENT


A freewatt system understands the idea of recycling very well. That's because it uses energy twice, first to provide heat for the living space, then again to cogenerate electricity. This process drastically reduces greenhouse gases. freewatt's electricity generation process emits 60% less carbon dioxide than the typical electricity sent from the grid. Now homeowners have the ability to reduce their carbon footprint and reuse some energy of their own.

## COMFORTABLY GREEN

With freewatt, homeowners can do their part for the environment from the comfort of their own home. freewatt delivers continuous, low-level heat without the temperature swings and cycling associated with a traditional heating system. This creates a constant comfortable setting, making this system quieter than a typical warm air furnace.

## ECO- AND USER-FRIENDLY

Monitoring a freewatt is quite simple. The system controller is connected to the Internet for remote monitoring, control, troubleshooting, diagnostics, and streamlined maintenance. Homeowners can even log onto a personal freewatt Web page to check power savings and program their thermostat.



A revolutionary new home energy system that not only provides heat, but also generates eco-friendly electricity.



Warm Air freewatt System

### Warm Air freewatt System

The Warm Air freewatt System employs a 95% efficient two-stage variable speed condensing furnace. The Warm Air HI Module includes the Internet enabled control module and the heat exchangers for transferring heat from the power module to the furnace. Plus, a high efficiency MERV 8 Air Filtration device helps to improve indoor air quality.

*freewatt comes backed by a five year parts and labor warranty.*

### CONTROL MODULE

As an integral part of the freewatt system, the control module acts as the brain, and allows the system to function more efficiently. Not only does it control the Honda MCHP and furnace or boiler, but it also connects the freewatt system to the Internet, giving the homeowner the ability to monitor their power generation and energy savings, or set their programmable thermostat.

### SYSTEM SPECIFICATIONS

Component	Input (MBH)	Heating Capacity (MBH)	Net Power (kW)	Overall Efficiency (%)
<b>Honda MCHP</b>	18.5	12	1.2	85+
<b>freewatt furnace*</b>	60/36, 80/48, 100/60, 120/72	57/34.2, 76/45.6, 95/57, 114/68.4	-	95
<b>freewatt boiler*</b>	80-200†	76-190†	-	95

†Modulating Boiler  
The furnace and boiler included as part of the freewatt System meet the ENERGY STAR guidelines for energy efficiency. U.S. Patents 7,040,544 and 7,284,709. Specifications are subject to change without notice.



Hydronic freewatt System

### Hydronic freewatt System

The Hydronic freewatt System uses the Hydronic HI Module and Control Module to integrate the Honda MCHP with our super-efficient residential boiler. This modulating condensing boiler captures 95% of the available energy. The advanced microprocessor control continuously adjusts the system's output to match the home's heating load. The hydronic freewatt offers an optional indirect hot water tank which will satisfy the home's hot water needs and allow for year round electricity generation.

### HONDA MCHP MODULE

The Honda MCHP incorporated into the freewatt system is a remarkably quiet and efficient power module. This unit uses a natural gas engine and modern inverter based power conversion technology to supply high quality power to the home and grid. There are more than 60,000 MCHP units operating in Japan.



freewatt delivers continuous, low-level heat without the temperature swings and cycling associated with a traditional heating system.

IT JUST MAKES SENSE

A typical power plant must burn 290 Watts of fuel to deliver 100 Watts of electricity to the home. An amazing 65% of the energy is wasted. Using freewatt, homeowners can eliminate that waste by generating their own eco-friendly power. This not only cuts back on harmful greenhouse gases and reduces fuel consumption, but lowers utility costs significantly. There's no better time than now to experience a freewatt system.



An amazing 65% of the energy produced by a typical power plant is wasted. Using freewatt, homeowners can eliminate that waste by generating their own eco-friendly power.

FUEL TO DELIVER 100 WATTS OF ELECTRICITY TO YOUR HOME



Fuel Used by Power Plant ▶ 290 W Fuel for 100 W



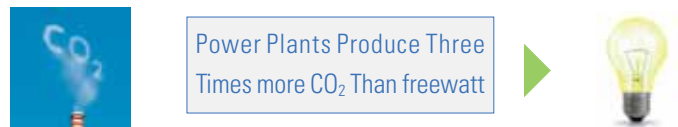
freewatt Uses 60% Less Fuel Than Power Plants

Fuel Used by freewatt ▶ 118 W Fuel for 100 W

EMISSIONS TO DELIVER 100 WATTS OF ELECTRICITY TO YOUR HOME



CO<sub>2</sub> Emissions from Power Plant



Power Plants Produce Three Times more CO<sub>2</sub> Than freewatt

CO<sub>2</sub> Emissions from freewatt