

TWO-STAGE PACKAGE GEOTHERMAL HEAT PUMPS

'HT' Series



Our two-stage design far exceeds ASHRAE 90.1 efficiencies, allowing the unit to run at 67% capacity most of the time to maintain a consistent temperature and humidity level. When there's a demand for greater heating or cooling, such as during weather extremes, the unit instantly shifts to 100% capacity.

This full load/part load capacity significantly lowers operating costs. At the same time, it increases comfort because there's no on/off cycling of the system.

The high tech design of the high efficiency ECM blower motor adapts automatically to system demand, delivering a multitude of benefits including silent ramp-up, a speed for every mode and much more—all designed to overcome ductwork static pressure (even poor duct design) to maximize the flow of conditioned air.

HTV VERTICAL:

Components shown on reverse.



HT Series 2 to 6 Tons



HTH HORIZONTAL:

With upper and lower compartments placed side by side.

Features

- **Quiet Operation**—Double isolation compressor mounting system and vibration isolation springs combined with insulated compressor and air handler compartments dampen operating sound
- **Variable Speed Blower Motor**—Automatically adapts to all applications; provides a multitude of operational modes that maximize comfort and efficiency
- **Two Stage Compressor**—Copeland multi-stage scroll compressor delivers comfort, quietly and at higher efficiencies than single stage models
- **Microprocessor Controls**—Includes performance monitoring system to signal a potential problem before a lockout can occur
- **Standard Features**—Comes with domestic hot water generator with built-in pump for value and extra efficiency
- **Extended Operating Range**—20° to 120° F entering water temperature makes the HT Series suitable for virtually all applications and climates



HTD DOWNFLOW:

With upper and lower compartments reversed.



Outstanding Limited Warranty—12 years on compressor and parts
(Some limitations apply; see printed warranty for details.)

Comfort-Aire
A **WATTS** Company

Advanced design makes our two-stage model exceptionally quiet and efficient

Heavy duty blower with multiple features for noise dampening

ECM blower motor automatically adapts to system requirements for even temperatures

Removable panels on three sides allow easy access for installation, maintenance

Air handler and compressor compartments are separated by an insulated divider

Insulated, stainless steel drain pan has condensate overflow protection

Microprocessor controls with monitoring system



G90 galvanized steel cabinet with epoxy powder coat paint for durability and attractive appearance

Large filter captures pollutants for enhanced indoor air quality, can be easily changed

Tin plated air coil for corrosion protection and efficiency

Two-stage compressor delivers comfort more efficiently than single stage models, has discharge muffler for sound reduction

Double isolated compressor mounting reduces vibration and related operational sound

Brass swivel connectors are standard and are conveniently located for fast installation

All Comfort-Aire geothermal heat pumps meet or exceed all applicable industry standards, and are eligible for Federal tax credits.

All models 208/230V-I-60

Model	Capacity Modulation	Ground Water				Ground Loop				Shipping Wt. (lbs)
		Cooling Water 59°F		Heating Water 50°F		Cooling: Full Load 77°F, Part Load 68°F		Heating: Full Load 32°F, Part Load 41°F		
		BTUH	EER	BTUH	COP	BTUH	EER	BTUH	COP	
HTV/HTD/HTH024	Full	28,900	24.5	25,700	4.8	26,600	18.5	19,800	4.0	308
	Part	22,200	30.8	18,600	5.1	21,300	26.0	16,500	4.6	
HTV/HTD/HTH036	Full	41,200	23.0	36,700	4.7	38,200	18.2	29,000	4.0	345
	Part	30,200	31.5	24,800	5.1	28,900	27.0	22,100	4.5	
HTV/HTD/HTH048	Full	54,600	22.5	48,300	4.7	50,600	17.8	37,500	4.0	458
	Part	40,700	28.7	35,400	5.1	39,600	24.9	31,200	4.6	
HTV/HTD/HTH060	Full	68,600	22.0	59,600	4.4	64,800	17.5	48,000	3.9	485
	Part	57,900	29.7	41,800	4.7	49,800	25.3	37,500	4.3	
HTV/HTD/HTH070	Full	77,100	19.9	70,200	4.3	71,600	16.2	54,100	3.6	485
	Part	59,800	24.5	51,700	4.3	57,700	21.4	45,400	3.9	

Cooling capacities based on 80.6° F DB, 66.2° F WB entering air temp. Heating capacities based on 68° F DB, 59° F WB entering air temp. All ratings based on 208V operation.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product before beginning any installation preparations. All products meet applicable regulations in effect on date of manufacture; however, certifications aren't necessarily granted for life of the product. It is the responsibility of the applicant to determine whether a specific model qualifies for third party incentive/rebate programs (Federal, state, utilities, etc.).

HEAT CONTROLLER

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