GeoLogix
geothermal system by Comfort-Aire

Two Stage Geothermal Package Heat Pump

2 to 5 Tons

Self-contained, package HEV units combine a small footprint with two stage operation and integrated digital communication controls at a competitive price. The HEV exceeds industry standards for energy efficiency including Energy Star® Tier 3 requirements and is eligible for tax credits.

The digital electronic controller links the thermostat, fan motor and compressor staging to provide set-up and diagnostic data, saving time during installation and service calls. Also saving installation time is a four wire connection between the controller and the communicating thermostat.

If the communicating thermostat is not used, the installer can use an optional separate diagnostic tool to access the data, and a port for the tool is built into the unit.

The two stage compressor runs at 67% capacity most of the time to maintain a consistent temperature/humidity level. When there's demand, the unit instantly shifts to 100% capacity. The ECM blower motor automatically adapts to system requirements, delivering consistent temperatures and humidity control.

HEV Series

The HEV Series is designed for open loop, closed loop and boiler/cooling tower applications. The compact size of the vertical cabinet makes it ideal for tight spaces, fitting well into a utility room or closet, while the double isolation compressor mounting system and insulated cabinet make the HEV Series among the quietest units on the market.

FEATURES

- **Extended Range Refrigerant Circuit**—HEV unit is capable of geothermal ground loop and ground water applications, as well as boiler/cooling tower water loop installations
- **Scroll Compressor**—Dependable two stage design is efficient, reliable and quiet
- **Large Filter**—Captures pollutants for enhanced indoor air quality, can be quickly changed when needed
- **System Performance Monitoring**—Signals when the system is not running at peak performance so maintenance can be scheduled
- **Quiet Operation**—Double isolated compressor mounting and air handler compartment insulation make the HEV one of the quietest units on the market
- **Easy Service Access**—All components can be accessed through the conveniently located control box and large access panels for fast installation, easy maintenance

HEH Series

HEV Series exceed ASHRAE 90.1 efficiency standards

SPECIFICATIONS ON REVERSE

Comfort-Aire®

HEV PERFORMANCE

Power 208/230-1-60

Model	Capacity Modulation	Ground Water				Ground Loop			
		Cooling Water 59º F		Heating Water 50º F		Cooling Full Load 77º F Part Load 68º F		Heating Full Load 32º F Part Load 41º F	
		BTUH	EER	BTUH	COP	BTUH	EER	BTUH	COP
HEV/HEH 024	Full	24,900	20.2	22,900	4.2	22,700	15.0	18,200	3.5
	Part	18,600	24.0	16,200	4.3	17,800	20.0	14,100	3.7
HEV/HEH 030	Full	32,100	20.5	29,800	4.1	29,700	15.5	23,600	3.5
	Part	24,700	24.6	21,800	4.2	24,000	20.7	19,200	3.8
HEV/HEH 036	Full	37,200	19.6	34,700	4.1	34,500	14.6	27,700	3.5
	Part	27,700	25.0	24,500	4.4	26,900	20.4	22,100	3.9
HEV/HEH 042	Full	46,100	21.1	42,100	4.0	42,900	15.9	33,100	3.4
	Part	35,000	26.2	30,300	4.2	33,800	21.8	26,700	3.8
HEV/HEH 048	Full	51,600	20.7	44,800	4.3	47,900	15.3	35,400	3.6
	Part	39,000	26.6	32,400	4.5	37,400	21.0	29,000	4.0
HEV/HEH 060	Full	63,800	20.4	58,000	4.0	59,600	15.9	45,700	3.4
	Part	48,900	25.9	42,100	4.2	47,000	21.8	37,000	3.8

Model	Capacity Modulation	Water Loop			
		Cooling Water 86º F		Heating Water 68º F	
		BTUH	EER	BTUH	COP
HEV/HEH 024	Full	22,000	13.2	27,700	4.7
	Part	16,300	14.3	19,400	5.0
HEV/HEH 030	Full	28,300	13.6	35,600	4.5
	Part	21,700	15.0	26,100	4.9
HEV/HEH 036	Full	33,300	13.2	41,700	4.5
	Part	24,800	15.0	29,800	5.2
HEV/HEH 042	Full	40,900	14.1	50,000	4.5
	Part	30,800	15.6	36,600	5.0
HEV/HEH 048	Full	45,700	13.5	53,600	4.8
	Part	33,900	15.0	39,300	5.4
HEV/HEH 060	Full	57,000	13.8	69,300	4.4
	Part	42,800	15.6	50,500	5.0

Cooling capacities based on 80.6º F DB, 66.2º F WB EWT.
Heating capacities based on 68º F DB, 59º F WB EWT.
All ratings based on 208V operation.

DIMENSIONS

Model	Width	Depth	Height	Shipping Wt. (lbs)
024	22 3/8	22 3/8	40 1/2	221
030	22 3/8	22 3/8	40 1/2	229
036	22 3/8	26	46 1/2	251
042	22 3/8	26	46 1/2	266
048	25 3/8	29 5/16	50 1/2	322
060	25 3/8	29 5/16	50 1/2	337

Design, specifications, performance data and materials subject to change without notice.

Accessories for HEV Series	
7602-443	Electronic Communicating Thermostat
7602-444	Configuration/Diagnostic Tool
Accessories for HEV Open Loop Applications	
7602-441	Modulating Valve Kit for HEV024 to HEV048 Models
7602-442	Modulating Valve Kit for HEV060 Models

Motorized Modulating Valve Kit *is designed to interface with HEV controls to adjust the flow of water to system load requirements.*

Outstanding Limited Warranty—10 years on all parts including compressor, 5 year labor allowance (Some limitations apply; see printed warranty for details.)

HEAT CONTROLLER, INC.

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