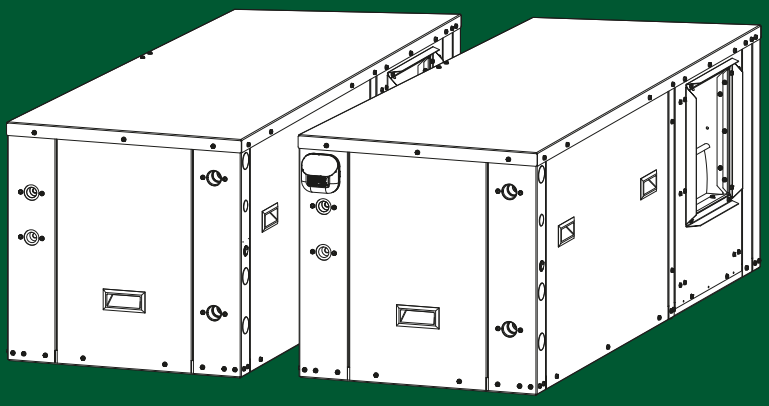
Single and 2-Stage

Compact Horizontal Packaged Unit

GEOTHERMAL HEAT PUMP

TECHNICAL OVERVIEW



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epic™ ZT available with EPIC connected controls.

The GeoComfort Compact Horizontal Packaged System provides efficient comfort in all conditions. These versatile models are smaller than previous GeoComfort horizontal models, making them better suited for installations where space for mechanical equipment is limited. The narrow width easily fits between 24'' trussing.

Horizontal models deliver ducted heating and cooling and can provide a portion of needed domestic hot water. The rugged, galvanized steel cabinet is designed to be installed on a flat surface, suspended above the ceiling, or a similar application. The versatile cabinet can be converted in the field for side or end discharge, with left or right return air. Boosting the functionality of the ZT, optional EPIC connected controls add unparalleled diagnostic, monitoring, and serviceability tools.

2016 DEALER DESIGN AWARDS the NEWS | GOLD

GeoComfort® by Enertech Live comfortably.®

Unit Performance

Ground Loop Heat Pump *(See the Commercial Product Catalog for Water Loop Heat Pump AHRI performance ratings)*

Single Stage Models		Blower	Cooling				Heating				Dimensional Data		
			Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP	Height	Width	Depth
ZS006	COAX (208-230V 1PH)	PSC	6,900	17.1	–	–	5,200	3.5	–	–	12"	20"	40"
	COAX (265/115V 1PH)	PSC	6,500	16.2	–	–	5,000	3.3	–	–	12"	20"	40"
ZS009	COAX (208/230V 1PH)	PSC	9,600	16.7	–	–	7,500	3.5	–	–	12"	20"	40"
	COAX (265/115V 1PH)	PSC	9,200	15.9	–	–	7,100	3.3	–	–	12"	20"	40"
ZS012	COAX (208/230V 1PH)	PSC	11,300	14.1	–	–	9,500	3.2	–	–	12"	20"	40"
ZS015	BPHE (208/230V 1PH)	PSC	15,300	19.2	–	–	11,100	3.8	–	–	17"	21"	40"
		ECM	15,200	20.3	–	–	10,900	3.9	–	–			
	COAX (208/230V 1PH)	PSC	14,500	17.1	–	–	11,300	3.9	–	–	17"	21"	40"
		ECM	14,200	17.6	–	–	11,200	3.9	–	–			
ZS017	BPHE (208/230V 1PH)	PSC	18,300	18.6	–	–	13,400	3.7	–	–	17"	21"	40"
		ECM	18,100	20.5	–	–	13,000	3.8	–	–			
	COAX (208/230V 1PH)	PSC	17,900	17.1	–	–	13,700	3.7	–	–	17"	21"	40"
		ECM	17,800	18.2	–	–	13,500	3.9	–	–			
ZS018	BPHE (208/230V 1PH)	PSC	20,500	18.2	–	–	14,400	3.6	–	–	19.25"	21.75"	52"
		ECM	20,800	20.5	–	–	14,200	3.8	–	–			
	COAX (208/230V 1PH)	PSC	19,400	15.5	–	–	14,800	3.5	–	–	19.25"	21.75"	52"
		ECM	20,100	18.7	–	–	14,100	3.7	–	–			

Two Stage Models		Blower	Cooling				Heating				Dimensional Data		
			Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP	Height	Width	Depth
ZT024	BPHE (208/230V 1PH)	ECM	26,800	19.8	20,700	28.8	18,100	4.0	14,900	4.3	19.25"	21.75"	52"
	COAX (208/230V 1PH)	ECM	26,400	18.3	20,000	25.0	18,300	3.9	14,500	4.1	19.25"	21.75"	52"
ZT030	BPHE (208/230V 1PH)	ECM	32,000	18.0	24,800	24.9	22,600	3.7	18,700	4.0	19.25"	21.75"	52"
	COAX (208/230V 1PH)	ECM	31,500	17.5	23,900	22.7	23,300	3.7	19,300	4.0	19.25"	21.75"	52"
ZT036	BPHE (208/230V 1PH)	ECM	38,200	19.9	28,900	29.8	27,600	4.1	21,200	4.4	21.25"	21.75"	56"
	COAX (208/230V 1PH)	ECM	36,700	17.9	28,100	26.6	27,100	3.8	22,000	4.3	21.25"	21.75"	56"
ZT042	BPHE (208/230V 1PH)	ECM	42,600	19.1	33,100	26.2	31,500	3.7	25,800	4.0	21.25"	21.75"	56"
	COAX (208/230V 1PH)	ECM	43,000	18.0	33,500	25.3	32,900	3.6	26,400	4.1	21.25"	21.75"	56"
ZT048	BPHE (208/230V 1PH)	ECM	49,800	18.3	39,700	26.6	37,900	3.9	29,600	4.3	21.25"	21.75"	56"
	COAX (208/230V 1PH)	ECM	48,700	17.3	38,000	24.4	36,900	3.6	29,300	4.1	21.25"	21.75"	56"
ZT060	BPHE (208/230V 1PH)	ECM	61,200	18.7	47,300	26.9	48,100	3.9	34,200	4.1	21.25"	24"	61"
	COAX (208/230V 1PH)	ECM	59,000	16.9	45,800	23.7	46,800	3.6	36,400	4.0	21.25"	24"	61"
ZT072	BPHE (208/230V 1PH)	ECM	70,400	18.0	57,100	25.2	57,900	3.8	47,600	4.2	21.25"	24"	61"
	COAX (208/230V 1PH)	ECM	69,500	15.6	56,000	21.3	55,500	3.4	44,400	3.8	21.25"	24"	61"

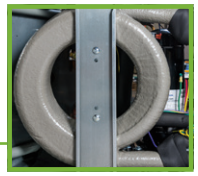
Notes:
2-stage models rated with ECM blower • Rated in accordance with AHRI/ISO standard 13256-1, which includes pump penalties • Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature • Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature • Entering water temperatures Full Load: 32°F heating / 77°F cooling • Entering water temperatures Part Load: 41°F heating / 68°F cooling • Data subject to change

ZT available with EPIC connected controls.

epic™

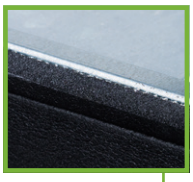
Available Voltages:
208/230V, 60Hz, 1Ph/3Ph
265V, 60Hz, 1Ph
460V, 60Hz, 3Ph
115V, 60Hz, 1Ph

Note: not all sizes are available in all voltages

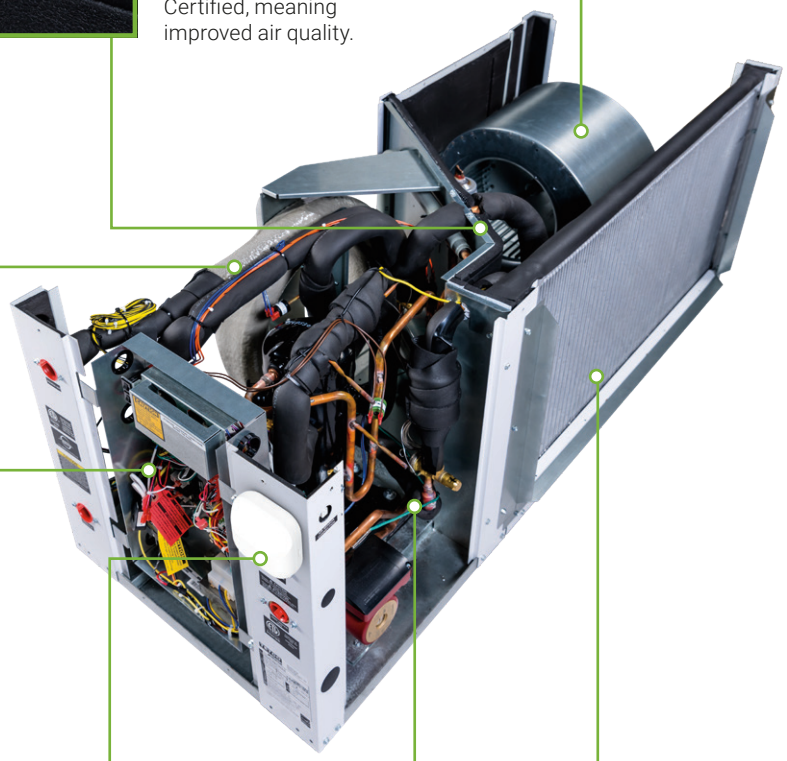


Foam insulated, enhanced surface coaxial heat exchanger protects against moisture and improves unit performance and reliability.

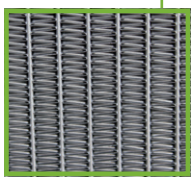
Variable Speed ECM Blower Motor matches to ductwork to deliver optimum airflow, plus has multiple CFM settings to fit any installation.
(Optional on single-stage models, standard on 2-stage)



High Density Closed Cell Foam insulation helps absorb sound. This insulation is UL GREENGUARD Certified, meaning improved air quality.

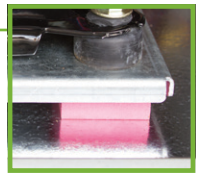


EPIC* connected controls offer transparent, quick monitoring and diagnostic tools to both the homeowner and dealer.



All-aluminum microchannel air coil eliminates the potential for failure due to corrosion and improves heat transfer, which results in better efficiencies and lower operating costs.

Digital Controls ensure proper operation, providing user-friendly diagnostics. Control box swings out for quick access to internal components.



Elastomeric Compressor Vibration Absorption Pads provide superior sound and vibration insulation, resulting in quiet operation.

Optional Cupronickel Coaxial Heat Exchanger or High Efficiency Stainless Steel Brazed Plate Heat Exchanger available.

* EPIC connected controls available for residential applications only

Additional Features

Field convertible side or end supply air discharge with left or right hand return air.

Factory installed desuperheater (hot water generator) allows the capture of free unused heat, which is used to heat domestic water. This application can cut hot water costs by 25% - 40%.

Source side **1" FPT fittings**.

Stainless steel **braze plate heat exchanger** (sizes 015 - 072) is protected by a sensor and flow switch. The BPHX is foam enclosed to prevent condensation. A **coax heat exchanger** is available for all sizes.

Standard **PSC motor** or optional ECM blower on single stage models. **ECM motor** standard on 2-stage models.

The **stainless steel drain pan** won't rust or corrode, while a **condensate overflow sensor** guards against clogged condensate drains.

Mechanical TXV (thermal expansion valve) for extended range operation.

Airtight blower section allows for refrigerant and electrical service work during operation.

Optional **DDC** (direct digital controls) with Modbus, Lonworks, or Bacnet protocols for building automation systems needs.

High density **UL GREENGUARD Gold certified foam insulation** reduces sound for quiet operation and improves air quality.

All **cabinet panels remove** for ease of installation and service.

Water and electrical connections conveniently located on front corner post.

Meets ENERGY STAR® requirements and qualifies for US federal tax credits. Other rebates and incentives may be available in your area.

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