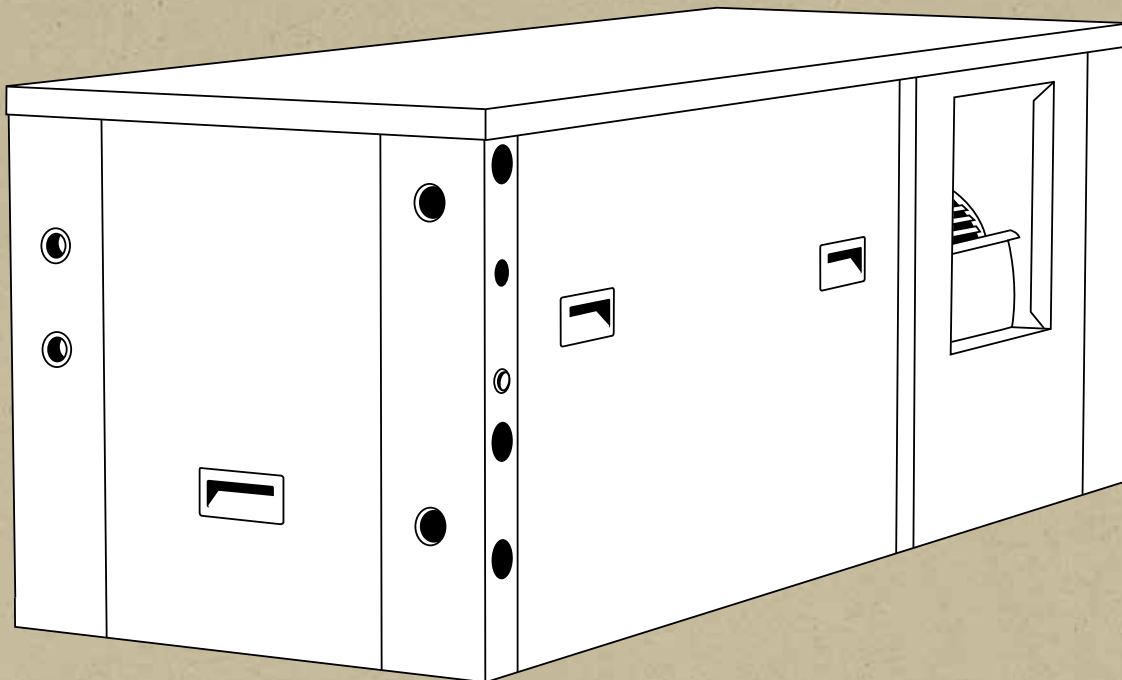


Single and 2-Stage Compact Horizontal Packaged Unit

**GEOHERMAL HEAT PUMP
TECHNICAL OVERVIEW**



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Compact Horizontal Packaged Geothermal Heat Pump

The new 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 either on a flat surface, or suspended above a ceiling or similar application. Two-stage units are available in sizes from 2 to 6 tons with user-specified options such as direct digital controls and factory installed desuperheater.



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

Unit Performance

Ground Loop Heat Pump

Model	Cooling				Heating				Dimensional Data		
	Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP	Height	Width	Depth
ZS018											
ZS024											
ZS030											
ZS036											
ZS042											
ZS048											
ZS060											
ZS072											
ZT024	26,800	19.8	20,700	28.8	18,100	4.0	14,900	4.3	19.25"	21.75"	52"
ZT036	38,200	19.9	28,900	29.8	27,600	4.1	21,200	4.4	21.25"	21.75"	56"
ZT048	49,800	18.3	39,700	26.6	37,900	3.9	29,600	4.3	21.25"	21.75"	56"
ZT060	61,200	18.7	47,300	26.9	48,100	3.9	34,200	4.1	21.25"	24"	61"
ZT072	70,400	18.0	57,100	25.2	57,900	3.8	47,600	4.2	21.25"	24"	61"

Single stage models
 planned for release
 in late 2016

Notes:

Single stage models rated with standard PSC blower, 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 • Preliminary data subject to change



Foam enclosed stainless steel Braze Plate Heat Exchanger boosts unit efficiency. It requires less refrigerant charge and reduces unit weight.



Variable Speed ECM Blower Motor matches to ductwork to deliver optimum airflow, plus has multiple CFM settings to fit any installation.



All-Aluminum Microchannel Air Coil eliminates failure caused by corrosion, improves heat transfer. Better efficiency means lower operating costs.

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 up to 50%.

Source side **1" FPT fittings**.

Stainless steel **braze plate heat exchanger** is protected by a sensor and flow switch. The BPHX is foam enclosed to prevent condensate.

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.

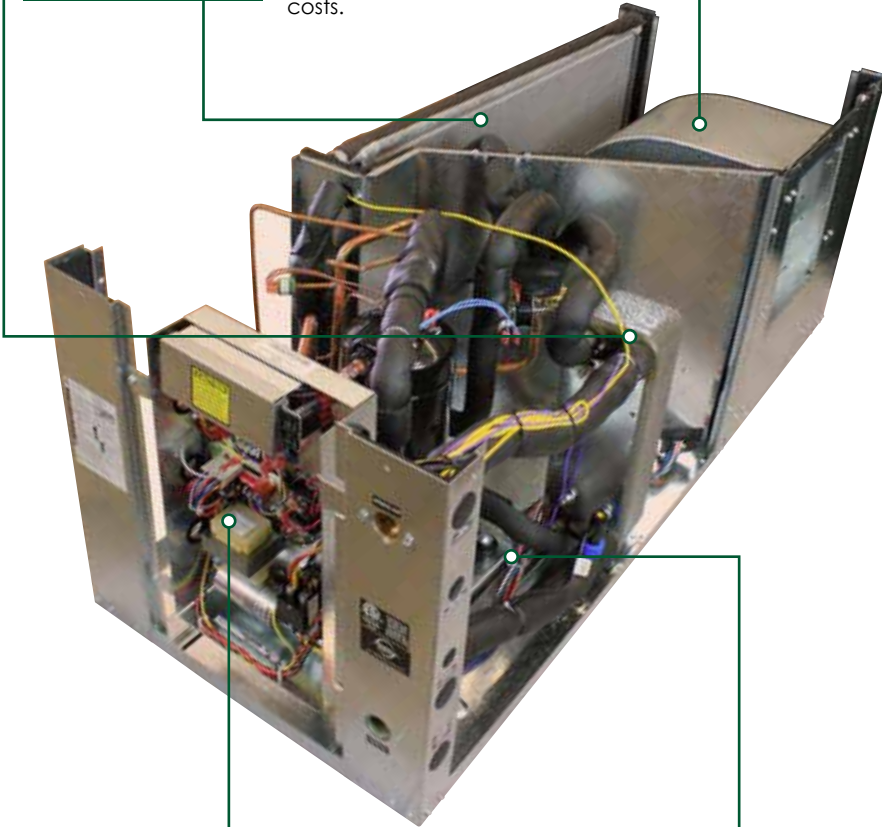
Optional **DDC** (direct digital controls) with Modbus, Lonworks, or Bacnet protocols for building automation systems needs.

High density **UL GREENGUARD Gold certified foam insulation** improves sound absorption and has better air quality.

All **cabinet panels removable** 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.



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



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



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



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www.geocomfort.com
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