



Single and 2-Stage Compact Vertical System

The TETCO® Compact Vertical Packaged geothermal system is built for drop-in installation. Its small footprint and enhanced serviceability features make it an ideal solution for retrofit applications or new construction.

Peace of mind is a standard feature with TETCO. Our products are manufactured with common components from reliable, proven suppliers. These supplier partners share our commitment to excellence, which is evident in the products we build.

Designed with the Installer in mind

Ease of installation and service is one of the key features of TETCO products and the Compact Vertical Packaged system is no exception.

For example, most commonly accessed components for installation/ service can be reached via front cabinet, including:

Desuperheater						
Blower Motor						
TXV						

Reversing Valve Refrigerant Ports Filter Drier

Hinged control box easily tilts up and out of the way for access to internal components

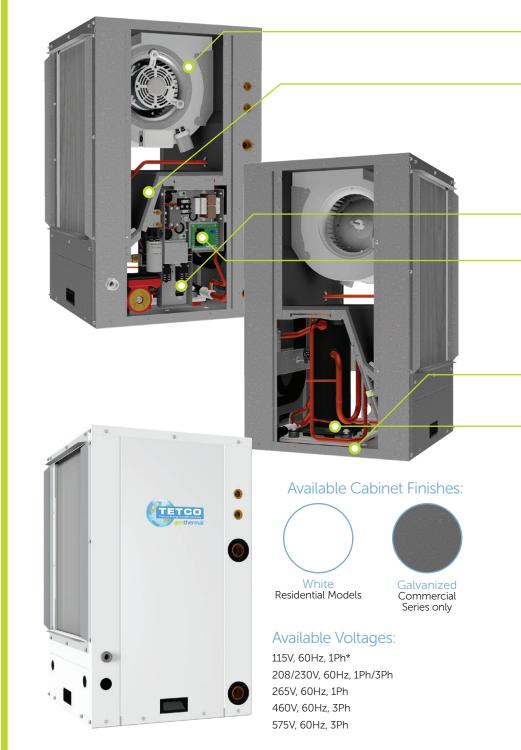
Front-mounted plumbing and sidemounted electrical connections

Inner front panel allows for refrigerant and electrical service work while unit is operational

Unit Dimensions

006-012 = 21.5" w x 21.5" d x 30.0" h 015-036 = 22.5" w x 22.5" d x 37.3" h 042-072 = 25.0" w x 27.9" d x 41.0" h





Unit Performance – Single-Stage Models Ground Loop Heat Pump

Mar da I	Capacity	Cooling		Heating	
Model		BTU/hr	EER	BTU/hr	СОР
VS006	Full Load	7,200	18.6	5,600	3.7
VS009	Full Load	10,900	17.4	8,500	3.6
VS012	Full Load	11,900	18.1	9,400	3.6
VS015	Full Load	16,000	19.8	11,600	4.1
VS018	Full Load	21,400	20.0	16,300	3.9
VS024	Full Load	26,000	19.7	19,400	4.0
V\$030	Full Load	30,100	18.5	22,300	3.9
V\$036	Full Load	37,800	18.0	30,200	3.9
VS041	Full Load	38,700	17.1	31,100	3.6
VS042	Full Load	43,600	18.6	32,000	3.8
VS048	Full Load	50,500	17.6	39,600	3.6
VS060**	Full Load	60,000	16.9	46,900	3.6
VS072**	Full Load	70,100	15.1	53,200	3.3

*VS009 only. Not all models available in all voltages. Check engineering documentation for specific model availability. **VS060 with PSC blower and VS072 with PSC/ECM are not ENERGY STAR qualified models



High-density, closed cell foam insulation helps absorb sound. Unlike standard fiberglass insulation, there's no potential for fibers to enter the air stream.



Standard PSC blower motor (single-stage) or ECM blower motor (2-stage) offer higher efficiency. ECM motors are an option on single stage models.



Digital controls ensure proper operation, providing user-friendly diagnostics. Advanced safety controls help protect the equipment.



Flow center and desuperheater use breakers instead of fuses, making service and repair faster.



Copeland® scroll compressors ensure better reliability due to fewer moving parts.



Elastomeric compressor vibration absorption pads greatly reduce operational noise.

The unique design of the **All-Aluminum Microchannel Air Coil** solves the issue of coil failure caused by formicary corrosion. Improved heat transfer and thermal performance results in increased unit efficiencies and lower operating costs. The coil uses 40% less material than a standard tube-and-fin copper/ aluminum coil, reducing unit weight. Enhanced structural robustness reduces chance of coil damage during basic maintenance.



Unit Performance – Two-Stage Models Ground Loop Heat Pump

Model	Constitut	Cooling		Heating	
model	Capacity	BTU/hr	EER	BTU/hr	СОР
VT024	Full Load	25,800	18.6	19,400	4.0
	Part Load	19,300	24.2	14,800	3.8
VT030	Full Load	32,200	18.4	24,300	3.8
	Part Load	25,500	25.8	20,000	4.2
VT036	Full Load	37,400	17.7	29,500	3.9
	Part Load	28,500	25.2	22,900	4.2
VT042	Full Load	45,900	18.5	32,400	3.9
	Part Load	35,100	26.0	25,500	4.2
VT048	Full Load	51,300	18.9	38,300	3.9
	Part Load	39,200	27.2	30,200	4.3
VT060	Full Load	60,900	17.6	46,300	3.8
	Part Load	46,500	23.6	36,600	4.2
VT072	Full Load	68,900	15.8	51,800	3.4
	Part Load	55,300	21.1	44,000	3.9

Notes: 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

Additional Standard Features

Stainless steel drain pan with condensate overflow sensor protects against potential overflows due to clogged drains.

Flat wound enhanced surface coaxial heat exchanger improves heat transfer, improving efficiency.

Factory installed desuperheater

(hot water generator) allows the capture of free unused heat, which is then used to heat domestic water. This application can cut hot water costs by up to 40%. Optional on commercial systems

Front plate-mounted **refrigeration ports** give easy access to refrigerant circuit.

Optional field installed closecoupled **auxiliary heater**.

Rugged construction, **18-gauge galvanized steel cabinet** (available painted or unpainted). Stringent design tolerances create a cabinet that minimizes air leaks.

Thermostatic Expansion Valve (TXV) metering for extended range of loop temperatures.

Small footprint allows for installation in restricted spaces and reduces shipping costs.

Meets ENERGY STAR®

requirements and qualifies for



the U.S. Federal tax credit. Other rebates and incentives may be available in your area.



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TETCO geothermal systems are manufactured by Enertech Global and proudly built in the Heart of America – Mitchell, South Dakota. Enertech Global systems are built with stringent quality control standards and the most comprehensive testing within the geothermal heating and cooling industry.



Enertech Global is continually working to improve its products. As a result, the design, specifications, and general information of each product may change without notice and may not be as described herein. For the most up-to-date information, please visit our website, or contact our Customer Relations department at customerrelations@enertechusa.com. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely Enertech Global's opinion or commendation of its products.