



SINGLE AND 2-STAGE COMPACT VERTICAL PACKAGED SYSTEM

Don't Sweat the Small Stuff

Think you don't have space to install an energy efficient geothermal heating and cooling system? The TETCO Ion Series Compact Vertical Packaged model will make you think again! It's the perfect geothermal system for families who want to save the planet while saving space... and money.

The Ion Series takes design innovations found throughout the TETCO product line and packs them into a compact and efficient system. It's everything you want – superior comfort, phenomenal savings, and environmentally friendly. In fact, the U.S. EPA and Natural Resources Canada both recognize geothermal systems as the most environmentally friendly and energy efficient heating and cooling systems on the market today. And that means

you'll save on monthly utility bills without sacrificing comfort.

Bring the comfort of the earth into your home with a TETCO Geothermal System, and discover why it's simply the best heating and cooling system you'll ever install.



Rebates and Incentives

Many states/provinces and utilities offer incentives to help you save even more. Ask your TETCO dealer about available rebates or visit dsireusa.org.

ION



Mother Nature meets Human Nature



ION

Unit Features

All-aluminum microchannel air coil *eliminates the potential for failure* due to corrosion, enhancing reliability and efficiency.

Unique compressor isolation technology and high-density foam cabinet insulation *inhibit noise and vibrations* for ultra-quiet operation.

Condensate overflow sensor *protects against potential overflows* due to clogged condensate drains.

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 50%.

High-density, closed cell foam insulation helps reduce operation noise. The material is UL GREENGUARD certified, meaning better air quality.



TETCO has you covered with a *full range of warranty options* to protect your investment. Talk to your dealer for more details.

Unit Performance

| Model | Capacity | Cooling | | Heating | |
|---------|-----------|---------|------|---------|-----|
| | | BTU/hr | EER | BTU/hr | COP |
| 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 |
| VS030 | Full Load | 30,100 | 18.5 | 22,300 | 3.9 |
| VS036 | Full Load | 37,800 | 18.0 | 30,200 | 3.9 |
| 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 |
| VT024 | Full Load | 25,800 | 18.6 | 19,400 | 4.0 |
| | Part Load | 19,300 | 24.2 | 14,800 | 3.8 |
| VT036 | Full Load | 37,400 | 17.7 | 29,500 | 3.9 |
| | Part Load | 28,500 | 25.2 | 22,900 | 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 • **VS060 with PSC blower and VS072 with PSC/ECM are not ENERGY STAR qualified models



How the Process Works

In **heating** mode, the system circulates fluid in the loop system, extracting heat from the ground. Heat is transferred to the geothermal unit where it is compressed to a high temperature then delivered through the home by a system of ductwork (forced air) or a radiant heat system (hydronic).

For **cooling**, the process is simply reversed. Utilizing the cooler temperature of the earth as opposed to the warm air above ground, the TETCO geothermal system takes the heat from the home and transfers it into the ground via the loop system.

