

# 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**  
The system qualifies for the United States federal tax credit and other state incentives, or in Canada, provincial incentives.

# 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.

For further reliability and to protect floors, the condensate overflow sensor *helps prevent potential overflows* due to clogged condensate drains.

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 25% - 40%.

*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

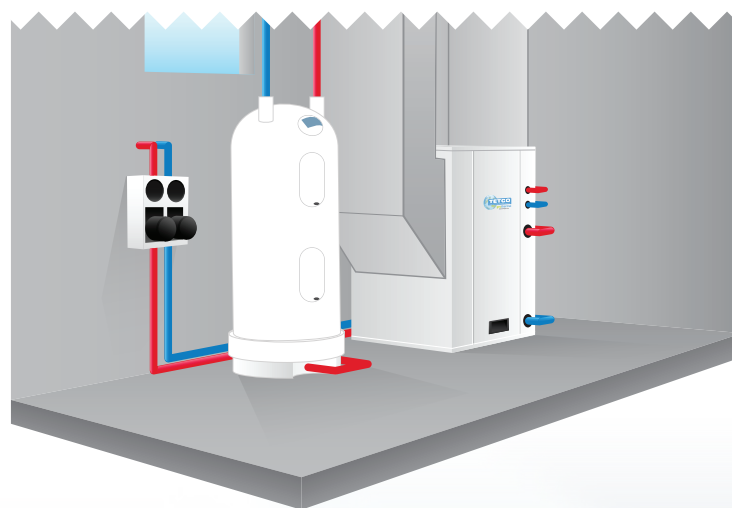
Model	Capacity	Cooling		Heating	
		BTU/hr	EER	BTU/hr	COP
VS006	Full Load	7,200	18.6	5,600	3.7
VS009	Full Load	10,900	17.4	8,500	3.6
VS012	Full Load	11,900	18.1	9,400	3.6
VS015	Full Load	16,000	19.8	11,600	4.1
VS018	Full Load	21,400	20.0	16,300	3.9
VS024	Full Load	26,000	19.7	19,400	4.0
VS030	Full Load	30,100	18.5	22,300	3.9
VS036	Full Load	37,800	18.0	30,200	3.9
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
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 • \*\*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).

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.



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