



TWO-STAGE COMBINATION SYSTEM

Mother Nature meets Human Nature

Keeping your budget in check is exactly what Mother Nature had in mind with a TETCO Geothermal System. After all, 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 money *and* the planet at the same time, all without sacrificing comfort.

With the TETCO ES4-C Series combination system, you'll get the best of both worlds. It's the reliability and efficiency of forced air heating and cooling plus the ultimate in comfort with radiant floor heating. It's like having two systems in one. Now, you can have warm floors where you want and still have the option of ducted heating and cooling in other rooms, too.

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.



Unit Features

All-aluminum microchannel air coil eliminates the potential for formicary corrosion, enhancing reliability and efficiency.

TETCO's ES4-C series hydronic heating function allows a single unit to provide forced air heating, forced air cooling, and radiant (hydronic) floor heating, reducing installation costs and maintenance.

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 25% - 40%.

An anti-microbial plastic drain pan inhibits the growth of bacteria, while eliminating corrosion common in metal drain pans.

Meets ENERGY STAR® requirements. High efficiency TETCO geothermal systems qualify for many state/provincial and utility rebates.



Two-stage Copeland® UltraTech® compressor offers superior part-load performance, providing better humidity control, greater efficiency and quieter operation.

Variable speed, ECM blower motor ensures quiet start up and operates at a fraction of the cost of a conventional blower motor.

Insulated cabinet panels combined with compressor isolation provide superior sound/vibration absorption.



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
TCT036	Full Load	38,600	18.3	28,600	4.1
	Part Load	29,100	26.8	22,400	4.6
TCT048	Full Load	49,000	17.1	38,000	3.9
	Part Load	37,400	24.1	29,700	4.3
TCT060	Full Load	61,000	16.6	47,900	3.7
	Part Load	47,400	23.4	38,700	4.2
TCT072	Full Load	68,800	15.6	56,000	3.5
	Part Load	55,600	20.8	45,800	3.9

Notes:

Certified in accordance with 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 & Single Stage: 32°F heating / 77°F cooling.

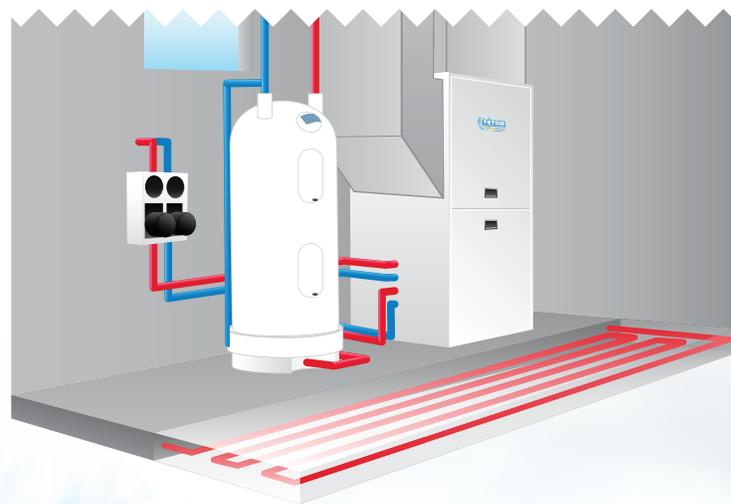
Entering water temperatures Part Load: 41°F heating / 68°F cooling.



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.



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