



Multi-Positional Vertical Combination
2-Stage Geothermal System



REVOLUTION[®]

Pure and Simple[™]

Hydron Module® will *revolutionize* the way you think about heating & cooling.



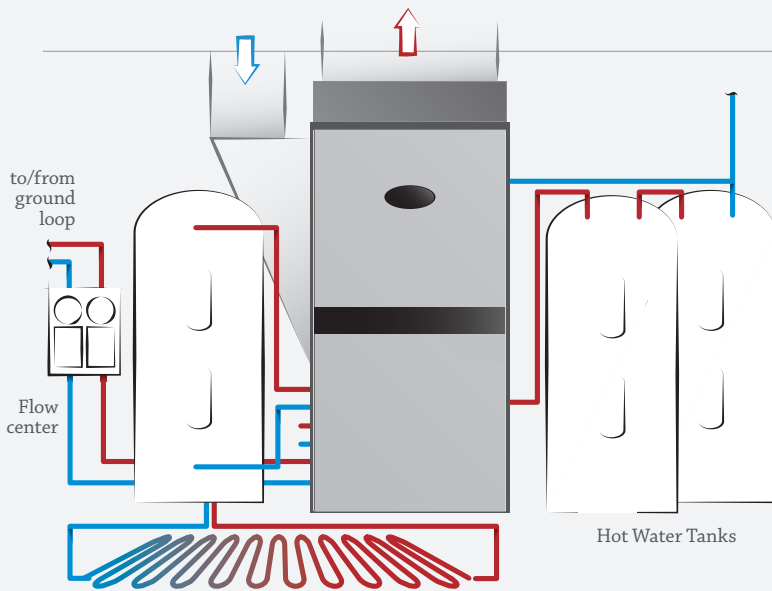
REVOLUTION®

Multi-Positional Vertical Combination System

The Revolution® Series combination system provides forced air heating and cooling in addition to hydronic heat for radiant floors in **one efficient unit**. A single combination unit allows you to experience floor warming, radiant heat in rooms with tile or wood flooring, while enjoying the efficiency of forced air heating in other areas. Naturally, this unit also delivers air conditioning throughout the entire home. Because the unit utilizes the sun's free energy stored in the ground and uses no fossil fuels, it can **save you up to 70%** on heating and cooling operational costs, and is **environmentally friendly**. The Revolution Series combination system unites the most comfortable heating with the most efficient technology. Purely customizable. **Simply everything you could want – and more.**

WWW.HYDRONMODULE.COM

Heating and Cooling Cycles

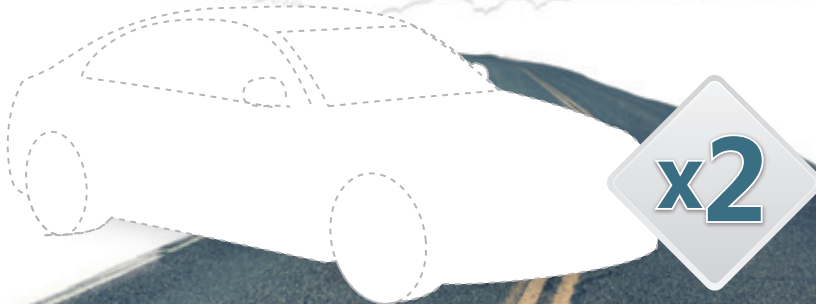


During the heating cycle, the fluid circulates through the loop extracting heat from the ground. The heat energy is transferred to the geothermal unit. The unit compresses the extracted heat to a high temperature and delivers it to your home through a normal duct system or radiant heat system.

For cooling, the process is simply reversed. Because the earth is much cooler than the air temperatures on a hot day, the geothermal system removes heat from the home and deposits it into the ground. The fluid is cooled by the ground temperatures and returned to the unit for cooling your home.

Earth Friendly Benefits

Earth friendly Hydron Module geothermal systems burn no fossil fuels and use very little electricity. According to the U.S. Department of Energy, **nearly 40% of all U.S. emissions of carbon dioxide (CO2) are the result of using energy to heat, cool and provide hot water for buildings.** The greenhouse gas reduction of installing a geothermal system in a typical home is equivalent to **planting an acre of trees, or taking two cars off the road.** This enhances our efforts to control pollution, greenhouse emissions, and other issues that impact our everyday environment.



Owning a **Hydron Module** is even more affordable thanks to **state/provincial and local rebates and incentives.** Ask your dealer for more information or visit dsireusa.org.



How Geothermal Works

The earth is warmed by the sun. This natural heat is collected in the winter by a series of buried pipes called a loop system. Fluid circulating in the loop system carries this heat to the home, where it is compressed and released to raise the inside temperature.

In the summer, this process is reversed in order to cool the home. Heat is drawn from the home, rejected to the loop and absorbed by the earth. The result is a comfortable home all year round.

Since most of the energy used for heating and cooling is free from the earth, geothermal systems are the most efficient and environmentally friendly systems on the market today.



48% of the sun's energy is absorbed by the ground, maintaining an average ground temperature of 45° - 70°F at 6'.

Loop Types

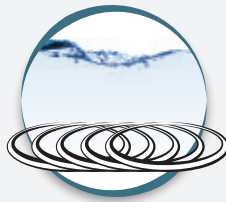
VERTICAL LOOP



HORIZONTAL LOOP



POND LOOP



OPEN LOOP



Horizontal and Vertical loops are most common and laid or drilled in a horizontal or vertical fashion. Pond loops are coils that are laid at the bottom of a nearby pond. Open loops pull from a source of water and dump into another.

Select & Compare

There are many options when selecting a heating and cooling system. This comparison table will help simplify the features of the various Hydron Module model offerings and discern them versus conventional systems. Your qualified Hydron Module dealer will assist you in determining which application provides the best solution for your specific needs.

	GEOHERMAL				CONVENTIONAL			
	PACKAGED	HYDRONIC	COMBINATION	SPLIT SYSTEM	FURNACE	AIR CONDITIONER		
Heating	■	■	■	■	■			
Air Conditioning	■	■	■	■		■		
Forced Air	■		■	■	■	■	■	
Zoning Capability	■	■	■	■	■	■	■	
Radiant Floor Heating		■	■					
Domestic Hot Water	■	■	■					
New Construction	■	■	■	■	■	■	■	
Existing Home Install	■		■	■	■	■	■	
ENERGY STAR® Rated	■	■	■	■	■	■	■	
Environmentally Conscious	■	■						

■ APPLIES ■ FORCED AIR AND RADIANT FLOOR IN SINGLE UNIT ■ SOME UNITS/APPLICATIONS

The Revolution Series has everything you would expect from a quality handcrafted *Hydron Module* geothermal system. What will surprise you is how much *more* it offers.

Best Geothermal Warranty



Hydron Module boasts the **best geothermal warranty** – Pure and simple. An Optional

Limited Lifetime Warranty is also available on the compressor and all-aluminum microchannel air coil. Visit hydronmodule.com or ask your Hydron dealer for details.

Environmentally Friendly

Releases **no environmentally harmful emissions**, reducing your carbon footprint. In fact, geothermal systems are recognized by the U.S. EPA and Natural Resources Canada as the **most energy efficient heating and cooling** systems available.

Unmatched Quality

Hydron Module selects only the **best components** for **unsurpassed quality**. Our all-aluminum microchannel air coil eliminates the potential for corrosion while delivering maximum comfort and efficiencies.

Operational Cost Savings

By using the **free energy** stored in the ground, Hydron Module geothermal systems are **up to 500% efficient**, saving you up to 70% off heating and cooling costs versus conventional systems.

Safe and Secure

Hydron Module geothermal systems **burn no fossil fuels**, so there's no combustion, flames, fumes or risk of carbon monoxide poisoning.

Peace and Comfort

Closed-cell foam insulation is used throughout the cabinet to **enhance the already quiet operation** of a Hydron Module geothermal system.

Whisper Quiet

Our exclusive design and **advanced craftsmanship** provide isolation between the heat pump's compressor and the cabinet resulting in **extremely quiet operation**, making it one of the quietest geothermal heat pumps available.

Free Hot Water

A Hot Water Generator is standard with all Hydron Module units. This allows the **capture of free, unused heat**, typically **cutting hot water costs** by 30-50%.

Model	Capacity	Cooling		Heating	
		BTU/H	EER	BTU/H	COP
CT024	Full Load	26,500	20.0	19,700	4.2
	Part Load	20,900	27.3	15,700	4.5
CT036	Full Load	38,600	18.3	28,600	4.1
	Part Load	29,100	26.8	22,400	4.6
CT048	Full Load	49,000	17.1	38,000	3.9
	Part Load	37,400	24.1	29,700	4.3
CT060	Full Load	61,300	17.4	46,500	3.7
	Part Load	48,000	24.4	36,400	4.1
CT072	Full Load	70,500	16.2	55,900	3.6
	Part Load	57,000	22.0	46,500	4.0

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: 32°F heating / 77°F cooling.

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



See our full line of geothermal products at www.hydronmodule.com

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Proudly built in Mitchell, SD by



Product specifications reflect available information at time of printing. Design and specifications may change without notice.