



Multi-Positional Vertical Packaged 2-Stage Geothermal System



Pure and Simple™

Hydron Module® Evolution Series™
Geothermal. Transformed.



Multi-Positional Vertical Packaged System

The all-new Hydron Module Evolution series is geothermal that has advanced to meet your changing needs. Each unit is built to exacting standards of ***quality and craftsmanship*** that you expect from Hydron Module. This premier system is the ***ultimate solution*** for ***increased efficiency, unsurpassed comfort and exceptional reliability***. We've transformed the concept of geothermal using state-of-the-art, innovative technology to bring you a heating and cooling system that's evolved to perfection.

Evolution series Vertical Packaged systems provide forced air heating and cooling like most conventional systems – but the similarities end there. Hydron Module has utilized the most advanced geothermal technology, resulting in a heat pump that is superbly efficient, exceptionally reliable, and ***so quiet you may not even realize it's running***. Change the way you think about comfort with the Evolution series.

The Evolution 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 warranty** in the industry. In fact, Hydron Module is the only geothermal heat pump with an available Lifetime All-Aluminum



Microchannel Air Coil and Compressor Warranty*. Pure and simple.

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.

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%**.

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.

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 **unsurpassed comfort and efficiencies**.

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.

Safe and Secure

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

Maximum Efficiency

Hydron Module vertical packaged systems utilize **innovative internal components to help maximize unit efficiency**. An all-aluminum microchannel air coil, ECM blower motor, and foam enclosed air coil work together to achieve superior performance and operational cost savings.

Peace and Comfort

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

*When registered within 60 days of installation. Visit www.hydronmodule.com or ask your Hydron Module dealer for details.

Model	Capacity	Cooling		Heating	
		BTU/H	EER	BTU/H	COP
YT024	Full Load	27,000	19.9	19,000	4.3
	Part Load	21,400	28.2	15,200	4.8
YT036	Full Load	41,200	20.9	29,100	4.5
	Part Load	31,500	31.3	23,300	5.1
YT048	Full Load	53,300	20.2	39,900	4.3
	Part Load	42,600	29.6	32,000	4.9
YT060	Full Load	64,300	19.3	49,200	4.1
	Part Load	50,000	28.0	37,700	4.6
YT072	Full Load	71,900	18.0	56,200	3.8
	Part Load	58,500	24.8	45,800	4.4

Notes:

Certified in accordance with ISO Standard 13256-1 which includes pump penalties.

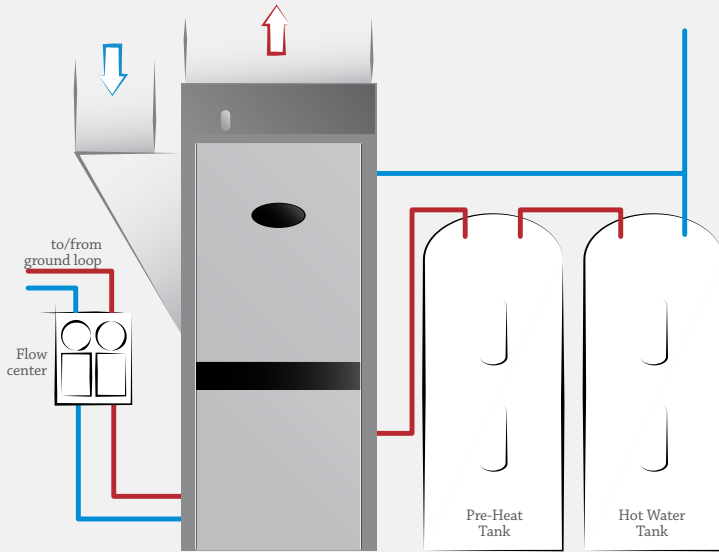
Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature.

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.

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.

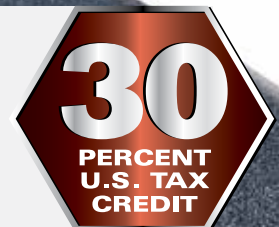
For cooling, the process is simply reversed. Because the earth is much cooler than the air temperatures on a hot day, the geothermal system removes heat from the home and deposits it into the ground. The fluid is cooled by the ground temperatures and returned to the unit for cooling your home.

Earth Friendly Benefits

Earth friendly 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, green house emissions, and other issues that impact our everyday environment.



Owning a **Hydron Module** is even more affordable thanks to a **30% U.S. tax credit**. Many state/provincial and local incentives are available too.



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.



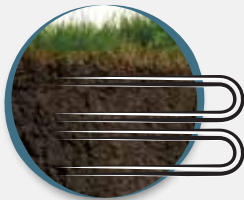
48% of the sun's energy is absorbed by the ground, maintaining an average ground temperature of 45° - 70°F at 6'.

Loop Types

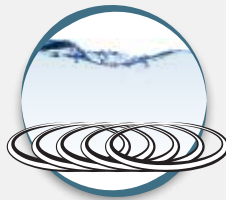
VERTICAL LOOP



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.

GEOTHERMAL										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

 SOME UNITS/APPLICATIONS



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.