

Hydron
— Module —
Geothermal Systems



Residential Product Catalog

Building Partnerships

You've built your business with the pride of understanding what your customers want and need. You've set yourself apart by offering high quality, professional service. And you are ready to take your business to the next level.

You want to offer your customers something that demonstrates that you are in touch with them: something that offers them more and saves them money. Lots of products do one or the other, but it is rare that one can do both.

By becoming a Hydron Module dealer, you get access to an extremely innovative and high quality product line. You join

a network of experienced professional HVAC dealers and become part of the Hydron Module family. Best of all, you retain your voice to be heard, because we recognize that nobody understands your business like you do. Your input is as critical to our success as it is to yours.

Whether you are looking to add a geothermal product to your product portfolio or are considering replacing an existing geothermal product line, the Hydron Module brand of geothermal heating and cooling and domestic water heating system is a sensible choice.

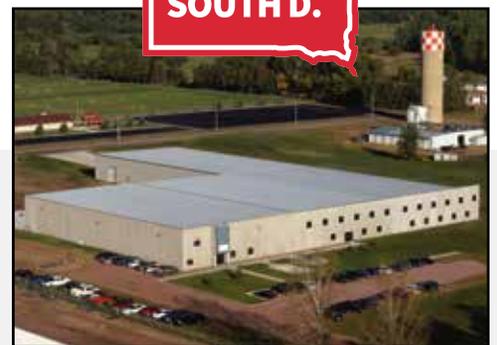
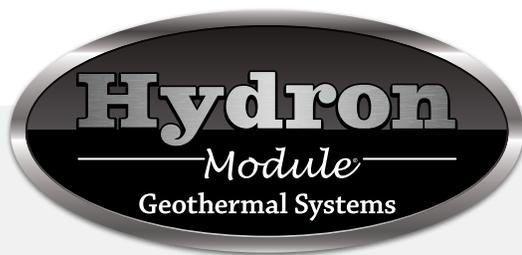


Enertech Headquarters - Greenville, IL



Enertech Manufacturing Facility - Mitchell, SD

Hydron Module® geothermal heat pumps are the products that you are looking for. They are the key to continued success for any size business in the HVAC market.



Enertech Manufacturing Facility - Mitchell, SD



Enertech Global, LLC

Enertech Global is a dedicated geothermal manufacturer, producing GeoComfort, Hydron Module and TETCO geothermal equipment. Our corporate headquarters are located in Greenville, Illinois, and our units are made exclusively in the United States, with production facilities located in Mitchell, South Dakota.

Enertech, the original company, was founded in 1996 as a geothermal heat pump distributor. Since then, we've experienced phenomenal growth and delivered award-winning product innovations. Today our focus is on designing world-class products and setting a new standard in the geothermal industry.

We believe that our success is built on strong relationships, which is why our distributors, dealers and end users of our products are so important.

Our commitment to product excellence and quality craftsmanship helps guide the decisions we make.

Our four guiding principles are:

1. To supply products that are of high quality and reliability
2. To produce products in a lead-time that meets our customers' expectations
3. To manufacture value-added products with the features and benefits that fit the needs of our customers
4. To offer products at a price point that is competitive in the marketplace that meet the first three objectives

In achieving these goals, Enertech Global will be in a distinctive position to meet the needs of your customers and enhance the profitability of your business.



Steve Smith - Enertech President & CEO

Enertech is proud to be a part of NIBE Industrier AB, an 8,000 employee strong European company and the largest geothermal heat pump manufacturer in the world.

Philosophy:

Enertech is a company with family values and beliefs. As such, we are committed to the following:

- **Partnerships:** We believe you don't have to be related to be family
- **Excellence:** We believe our employees are our most valuable asset
- **Loyalty:** We believe in earning the trust and allegiance of those who sell our products. We believe that they deserve our best quality and service, which puts us in a distinctive position to enhance the profitability of our customers' businesses
- **Certainty:** We believe home and business owners deserve assurance of reliability, comfort, and savings – complete peace of mind. They should be our strongest advocates and that is the principal indicator of our companies' success
- **Obligation:** We believe we are responsible for contributing to the well-being of the communities, cities and countries where we do business
- **Conscience:** We believe in improving the global atmosphere through environmental consciousness, a culture of care and enduring optimism

Why Geothermal?

If you are not currently offering your customers a geothermal product, there has never been a better time to start. Increasing awareness of the benefits of geothermal heating and cooling has driven impressive industry growth over the past several years. During a down economy, the sales growth is even more remarkable. Most of the major geothermal manufacturers report seeing significant year over year growth and predict that trend to continue.

From a residential application standpoint, geothermal awareness has never been higher. The most compelling benefits of a geothermal system,

This incentive virtually eliminated the price premium that previously impeded the up front cost comparison of geothermal systems against their conventional counterparts and is in place through 2016. An increasing number of states and local utilities are also offering their own rebates or incentives for geothermal heat pumps, adding to the technology's awareness and accessibility. Individual provinces also provide incentives for installation in Canada.

The consumer demand for alternatives to conventional heating and cooling

In 2009, the American Reinvestment and Recovery Act instituted a 30% tax credit on the total installation cost of an ENERGY STAR qualified residential geothermal system.



including efficiency, environmental consciousness and low operational and lifespan costs combine to attract homeowners in today's turbulent economic environment as well as the social desire for green solutions. In today's economy with depressed housing starts, residential geothermal sales have increased partly due to an increased understanding that geothermal systems are a viable and affordable option for existing homes.

Unprecedented incentives for geothermal systems have also elevated the technology to top of mind.

is at an all time high. United States and Canadian governments are now promoting and encouraging the use of geothermal heat pump technology.

Now is the time to add Hydron Module geothermal heating and cooling systems to your product offerings.



Why Hydron Module?

■ Hydron Module products have a **10/10/5 standard warranty** (10-year geothermal unit parts/10-year select accessories/5-year labor allowance), plus an available **Free Warranty Upgrade**. With product registration, Hydron extends the labor allowance to 10 years (additional coverage for years 6-10) and offers Limited Lifetime coverage on the compressor and all-aluminum microchannel air coil. That is the **best warranty** of any geothermal brand.



■ Hydron Module's YT, XT and CT vertical packaged models are **multi-positional**, providing the ultimate in **installation flexibility**, while reducing dealer/distributor inventory needs.

■ Hydron Module was the first to use an **all-aluminum microchannel air coil**, which eliminates failure caused by formicary corrosion. This improves the reliability of the unit.

■ All Hydron Module units come equipped with an oversized, copper rifled coaxial water heat exchanger for increased surface area, providing significantly higher efficiencies than required by the **ENERGY STAR** program.

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

■ All-new **Evolution and Origin Series** models showcase our latest innovations like elastomeric compressor vibration absorption pads. This technology provides isolation between the compressor and the cabinet, resulting in whisper quiet operation.

■ Hydron Module split systems have AHRI (Air-Conditioning, Heating, and Refrigeration Institute) **certified air handler matches** for every model. That means **better performance** and guarantees the operating efficiency of the system, which is a requirement for many rebate and incentive programs.

■ Hydron Module units are assembled in the heart of America and undergo **rigorous quality testing**. Our **superior craftsmanship** ensures a lifetime of reliable operation.

■ **ECM blower motors are standard** on all Hydron Module 2-stage models. These variable speed motors ensure quiet start up and operate at a fraction of the cost of a conventional blower motor.

■ The Hydron Module combination unit features a **hydronic heating function**. That feature allows a single unit to provide forced air heating, forced air cooling, and in-floor radiant heat. The fact that only one unit is required **reduces installation costs and minimizes system maintenance**.

■ Hydron Module only uses **Copeland scroll compressors** in their heat pumps. This proven compressor technology ensures **better reliability** due to fewer moving parts. The inherent design of the scroll compressor requires less energy than other compressors to do the same amount of work, resulting in **higher efficiencies**.

■ A **hybrid heating or dual-fuel** system is possible with Hydron Module split systems. In combination with a new or existing natural gas/oil/propane furnace, the split system will provide all of the air conditioning for the home, as well as 80-90% of the heating requirements. The system switches over to the furnace in extreme cold temperatures for the remaining 10-20% of the time, providing optimum comfort and efficiency even for existing homes.

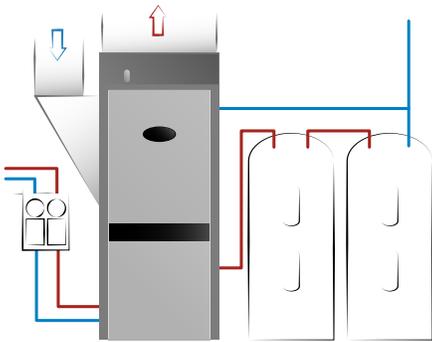
■ Hydron Module HXT and HCT models feature a **plastic drain pan with built-in anti-microbial treatment**. This means no corrosion, longer life span, and resistance to mold and mildew.

■ **Every Hydron Module water-to-water unit is reversible**, offering **chilled water air conditioning standard** with the system. Unlike with some other geothermal units, you will never have to invest in a supplementary air conditioning unit in addition to your Hydron geothermal system.

Geothermal Applications

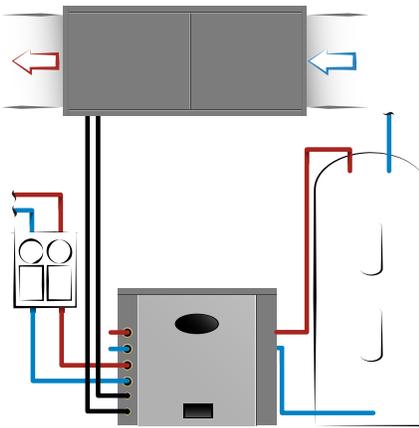
When it comes to geothermal system applications, there are as many different installation options as there are product configurations. Hydron Module has a full line of products to fit most any residential application. These illustrations highlight several common installation scenarios. Many other applications are possible.

Forced Air



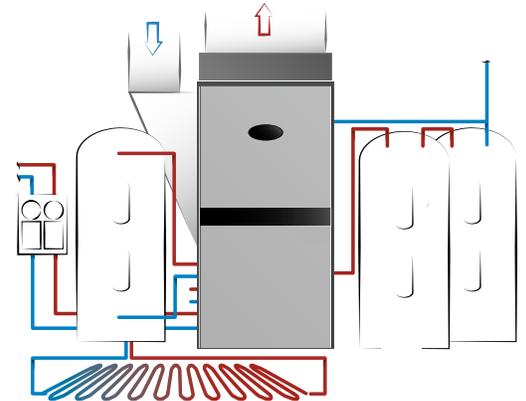
A Vertical or Horizontal Packaged System provides ducted heating and cooling. Also can provide domestic hot water.

Indoor Split



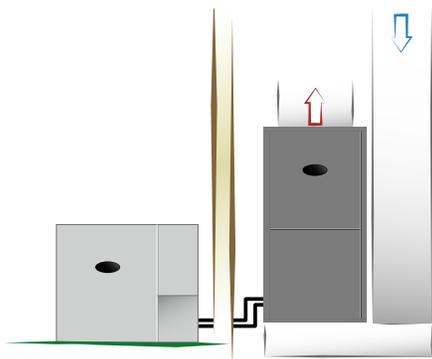
The Split System provides ducted heating and cooling using remote air handler. The unit can also provide domestic hot water.

Combination



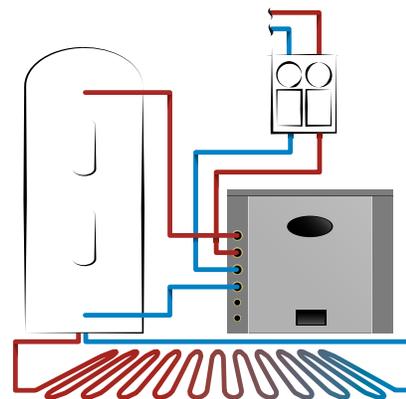
Combination Systems provide ducted heating and cooling like a traditional Packaged system, and can also provide radiant floor heat using a storage or buffer tank. The unit can also provide domestic hot water.

Outdoor Split

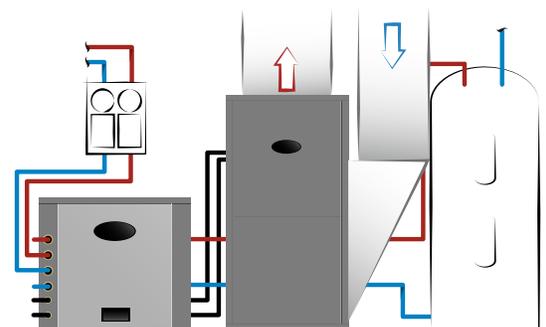


A Split System provides ducted heating and cooling using remote air handler. The unit can also provide domestic hot water. The geothermal unit is installed outdoors, making it ideal for retrofit applications.

Water-to-Water



Dual-Fuel



A Split System can be used with an existing gas, electric or propane furnace and/or air handler to create a hybrid system. The Split provides ducted heating and cooling in this application. This installation is ideal for remote, rural and retrofit applications.

Hydron Module Product Matrix

Product Features	HYT Models	HVS Models	HVT Models	HXT Models	HHT Models	HVC Models	HCT Models	HST Models	HRT Models	HWT Models	HWS Models	HWD Models
Function	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Combo	Forced Air	Forced Air	Hydronic	Hydronic	Hydronic
Cabinet Configuration	Multi-Positional Vertical	Compact Vertical	Compact Vertical	Multi-Positional Vertical	Horizontal	Vertical	Multi-Positional Vertical	Indoor Split	Outdoor Split	Water-to-Water	Water-to-Water	Water-to-Water
Compressor Stages	2	1	1	2	2	2	2	2	2	2	1	1 - 2
Sizes	3 - 4 Tons	1.5 - 3 Tons	2 - 3 Tons	2 - 6 Tons	2 - 5 Tons	3 - 5 Tons	2 - 6 Tons	2 - 6 Tons	3 - 5 Tons	3 - 10 Tons	3 - 8 Tons	10 Ton
Refrigerant	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a	R-410a
Heating Efficiency (COP) †	5.8 - 4.3	5.0 - 3.9	4.7 - 3.8	5.4 - 3.6	4.9 - 3.7	4.3 - 3.5	5.1 - 3.6	4.9 - 3.4	4.4 - 3.4	3.8 - 2.8	4.1 - 3.1	3.6 - 2.8
Cooling Efficiency (EER) †	37.4 - 20.2	27.5 - 18.0	29.8 - 17.7	35.0 - 17.1	29.7 - 16.8	27.0 - 19.6	29.4 - 16.2	30.5 - 15.9	25.4 - 15.9	24.5 - 14.6	23.5 - 16.1	22.0 - 14.5
Copper Coax	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Braze Plate	Braze Plate
CuproNickel Coax	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Tube-in-Shell	Tube-in-Shell
Coax Insulation	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Tape	Foam Tape	Foam Enclosed	Foam Tape	Foam Enclosed	Foam Tape	Foam Tape	Foam Tape
Air Coil	Aluminum Micro-Channel	Aluminum Micro-Channel	Aluminum Micro-Channel	Aluminum Micro-Channel	E-Coated Tube & Fin	Tube & Fin	Aluminum Micro-Channel	Tube & Fin*				
Desuperheater	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Option	Standard	Standard	Standard
Auxiliary Electric Heat	One-Piece Internal	Close Coupled	Close Coupled	One-Piece Internal	External Duct Heater	External Duct Heater	One-Piece Internal	One-Piece Internal**				
Blower	Variable Speed ECM	PSC Standard ECM Option	Variable Speed ECM	Variable Speed ECM	Variable Speed ECM	Variable Speed ECM	Variable Speed ECM	Variable Speed ECM**				
Selectable CFM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Freeze Protection	Digital	Digital	Digital	Flow Switch	Flow Switch	Digital	Flow Switch	Flow Switch	Flow Switch	Flow Switch	Digital	Digital
Controls	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Water Fittings	1" Double O Ring	1" Double O Ring	1" Double O Ring	1" FPT	1" FPT	1" FPT	1" FPT	1" FPT	1" FPT	1" FPT	1" MPT	1.25 - 2" MPT
Air Handler Match	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓▲	✓▲	✓▲
"A" Coil Match	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓▲	✓▲	✓▲
30% US Tax Credit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓***	✓***	
Warranty (Parts/Labor)	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
Lifetime Compressor & Lifetime MCHX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes:

- Matched Air Handler & "A" Coil *
- Air Handler Only **
- Models 036 - 060 ***
- Part load/ full load range †
- Optimized ▲



HYT | 2-Stage Multi-Position Vertical Packaged Unit

NEW



The Evolution of Comfort

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.

Unit Features

- 2 sizes: 036, 048
(060, 072 models coming 2Q15)
- Copeland UltraTech® 2-stage scroll compressor
- Multi-position cabinet (left or right return)
- All-aluminum microchannel air coil
- Sound and vibration absorbing elastomeric compressor isolation pads
- ECM blower motor
- Foam enclosed, enhanced surface coaxial heat exchanger
- UL GREENGUARD certified foam cabinet insulation
- Digital controls with enhanced unit protection
- Top or side mount, eye level controls
- R-410a zero-ozone depletion refrigerant
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Factory installed desuperheater
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime Microchannel Air Coil and Compressor Coverage
(see warranty page for details)



NEW

HVS/HVT | Single or 2-Stage Compact Vertical Packaged Unit

Don't Sweat the Small Stuff

The Origin Series VS/VT models are built upon our heritage of superb craftsmanship with the highest quality materials and unmatched attention to detail. The Compact Vertical Packaged model combines many of the innovative features found in the Hydron Module product line with a smaller cabinet that is perfect for installations where space is limited.

These systems provide forced air heating and cooling like most conventional systems – but the similarities end there. Hydron Module has utilized advanced geothermal technology to create a heat pump that is remarkably efficient, exceptionally reliable, and whisper quiet. You'll marvel at how such a small system produces such amazing comfort.



Unit Features

- 6 sizes: 018, 024, 030, 036 (Single Stage); 024, 036 (2-Stage) (009, 012 models coming 3Q15)
- Copeland single-stage or UltraTech® 2-stage scroll compressor
- All-aluminum microchannel air coil
- Sound and vibration absorbing elastomeric compressor isolation pads
- Standard PSC or optional ECM blower motor (single-stage). ECM blower standard on 2-stage
- Foam enclosed, enhanced surface coaxial heat exchanger
- UL GREENGUARD certified foam cabinet insulation
- Digital controls with enhanced unit protection
- Hinged control box lifts up for easy internal service
- R-410a zero-ozone depletion refrigerant
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Optional desuperheater
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime Microchannel Air Coil and Compressor Coverage (see warranty page for details)



HXT | 2-Stage Multi-Position Vertical Packaged Unit



High Technology Meets High Style

The Revolution Series, vertical packaged model took the industry by storm winning multiple awards such as The NEWS 2010 Dealer Design Awards. The innovative multi-positional cabinet that is field convertible to upflow/downflow with right or left return makes life easier for both dealers and distributors to install and stock.

However, our innovation didn't stop there. Hydron Module, in its continual drive to be an industry leader, has solved another age-old issue: Formicary corrosion. In 2011, our HXT models began production using an all-aluminum microchannel air coil by Delphi®. Today, both vertical packaged and combination product lines are built using this innovative design.

Unit Features

- 5 sizes: 024, 036, 048, 060, 072
- Multi-position cabinet (left return, right return, upflow, downflow convertible)
- Copeland UltraTech® 2-stage scroll compressor
- All-aluminum microchannel air coil
- Composite, antimicrobial drain pan
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Top mount, eye level controls
- ECM blower motor
- Desuperheater with internal pump
- Factory supplied filter rack and 1" thick MERV 8 pleated air filter
- R-410a zero-ozone depletion refrigerant
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime Microchannel Air Coil and Compressor coverage (see warranty page for details)

REVOLUTION®



No Space? No Problem.

The Revolution Series, horizontal packaged models are the perfect unit for installations where space is tight, or at a premium. Designed from the ground up to fit into areas such as crawl spaces or attics, the HHT is the right fit for a variety of installations.

The rugged, powder coated steel cabinet is designed to be installed either on a flat surface, or suspended above a ceiling or other similar application. Advanced digital controls monitor unit performance, while variable speed ECM blowers and two-stage scroll compressors deliver unmatched efficiencies and comfort to the home.



Unit Features

- 4 sizes: 024, 036, 048, 060
- New, ridged cabinet with multiple improvements
- Left or right hand return air with side or rear supply air (must be ordered to configuration)
- Copeland UltraTech® 2-stage scroll compressor
- Digital controls
- Coated air coils for extended life
- ECM blower motor
- Corrosion-proof, stainless steel, drain pan
- Copper or cupronickel coaxial water heat exchanger
- Desuperheater with internal pump
- R-410a zero-ozone depletion refrigerant
- Factory mounted return air duct flanges
- Standard 10/10/5 warranty
- Limited Lifetime Compressor coverage
(see warranty page for details)



REVOLUTION®

HVC | 2-Stage Vertical Packaged Unit



Step Out of the Cold. Step Into Comfort.

The all-new Hydron Module Cold Climate™ series is a purpose-built geothermal system. Developed specifically for heating dominant climates, Cold Climate vertical packaged geothermal systems have the highest overall heating capacity per cooling ton. Even in extreme cold, Cold Climate models perform well without additional, supplemental heat sources, resulting in lower operational costs.

TruBalance™ technology with advanced electronics balances heating and cooling capacities to ensure year round comfort. All models are designed to deliver exceptional humidity control in summer, while avoiding over-cooling the living space or short cycling the unit.

Unit Features

- 3 sizes: 036, 048, 060
- Active Display front panel with safety lockout
- One touch start-up
- Smart desuperheater with 3rd stage heat disable
- 100% front access
- Stainless brazed plate heat exchanger (BPHX)
- High and low access ports
- TruBalance™ technology
- Factory-supplied 1" filter rack with EZ Clean filter
- High efficiency Copeland UltraTech® 2-stage scroll compressor
- ECM blower motor
- Desuperheater with internal pump
- R-410a zero-ozone depletion refrigerant
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime compressor coverage
(see warranty page for details)



All The Comfort. All The Flexibility.

Our combination systems merge a forced air heating and cooling system with the indulgence of whisper-quiet radiant floor heating in a single unit. This system allows your family to enjoy the comfort of floor-warming, hydronic heat in specific parts of your home while also delivering efficient forced air heating in other areas. As with all Hydron Module geothermal systems, air conditioning is also supplied by this single unit.

However, our continual drive of industry leadership and innovation is making a great unit even better. We're now solving another age-old issue: Formicary corrosion. In 2012, all HCT models began production with a standard all-aluminum microchannel air coil by Delphi® that helps eliminate coil failure due to corrosion.



Unit Features

- 5 sizes: 024, 036, 048, 060, 072
- Multi-position cabinet (left return, right return, upflow, downflow convertible)
- Copeland UltraTech® 2-stage scroll compressor
- All-aluminum microchannel air coil
- Hydronic heating function
- Composite, antimicrobial drain pan
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Top mount, eye level controls
- ECM blower motor
- Desuperheater with internal pump
- Factory supplied filter rack and 1" thick MERV 8 pleated disposable filter
- R-410a zero-ozone depletion refrigerant
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime Microchannel Air Coil and Compressor coverage (see warranty page for details)



HST | 2-Stage Indoor Split Unit



Your Home, Made Better.

The Hydron Module Revolution Series geothermal split system is probably our most versatile system, equally well suited for new construction and existing home installations. The space-saving footprint of this unit makes it an excellent choice for new construction homes with minimal space for mechanical equipment. The unit can be used alone or added to a conventional furnace in new or existing homes to supplement the geothermal system in severe temperatures.

In essence, adding a split system to an existing furnace creates a hybrid heating system. This geothermal application is the most efficient, versatile and economical choice for many pre-existing homes.

Hydron Module split systems burn no fossil fuels and will lower your reliance on less efficient conventional systems. As a result, your carbon footprint is reduced and that's good for the environment. Your heating and cooling costs will also be reduced and that's good for your family.

Unit Features

- 5 sizes: 024, 036, 048, 060, 072
- Optional matched multi-position air handlers
- Copeland UltraTech® 2-stage scroll compressor
- Digital controls
- Desuperheater standard
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Optional cupronickel coax
- Standard 10/10/5 warranty
- Limited Lifetime Compressor coverage
(see warranty page for details)

REVOLUTION®



Retrofit Champion.

As retrofit installations become an ever-growing part of the marketplace, the need for simple and quick installation solutions grows as well. In most cases, homeowners don't want to wait for their new system to be installed, or are in a situation where a quick replacement is necessary.

This is where Hydron Module has yet again set an all-new direction in the industry with the Revolution Series Outdoor Split.

Designed around years of geothermal installation expertise and feedback from customers, the HRT has some of the most advanced features available. These features allow the installer to place the unit exactly where it needs to go as quickly and easily as possible.



NOW Optional factory-installed desuperheater connection

Unit Features

- 4 sizes: 024, 036, 048, 060
- UV protected outdoor cabinet
- Copeland UltraTech® 2-stage scroll compressor
- Factory installed freeze protection
- Uses standard flow center with installer-selected configuration
- Standard size back-seated service valves
- Optional factory installed connection for external desuperheater
- Side-mount flow center connection
- Included outdoor installation kit (flow center sold separately, see unit accessories)
 - Flow center cover
 - Aluminum pipe shield
 - Pump wiring harness
 - Hose kit
 - 90° PE street elbows
- R-410a zero-ozone depletion refrigerant
- Standard 10/10/5 warranty
- Limited Lifetime Compressor coverage (see warranty page for details)



The innovative design of the unit is centered on ease of installation. Shown above, the loop can easily be brought to the unit from almost any angle. Additionally, the unit could be rotated 90° counterclockwise if needed.



REVOLUTION®

HWT | 2-Stage Water-to-Water Unit



As seen on
This Old House®

The Best in Hydronic Comfort.

Hydron Module Revolution Series geothermal systems are expertly designed to be technologically advanced and exceptionally efficient. The result is a heating and cooling system as beautiful as it is functional.

Hydron Module hydronic (water-to-water) units offer a unique set of system benefits, the most remarkable of which is radiant floor heating. This extremely comfortable heating solution warms your home from the floor up, allowing for constant and uniform heat distribution without hot and cold spots. Radiant floor heating is ductless heating. By eliminating the sound of forced air the total system noise is reduced. Revolution Series water-to-water units are also reversible and capable of providing chilled water for air conditioning.

Unit Features

- 6 sizes: 036, 048, 060, 092, 120, 144 (models 092-144 have two compressors)
- Optional hydronic air handler and "A" coils
- High efficiency Copeland UltraTech® scroll compressor (036 - 092(2); 2 single speed scrolls on 120 & 144)
- Digital controls
- Radiant floor ready
- Heavy gauge, painted steel cabinet with stainless steel door panels
- Copper or cupronickel coaxial water heat exchanger
- Desuperheater standard
- Standard 10/10/5 warranty
- Limited Lifetime Compressor coverage
(see warranty page for details)

REVOLUTION®



Maximum Comfort Plus Maximum Efficiency – Now in a Smaller Box.

Although the Hydron Module single-stage hydronic models are small in size, they're big in efficiency! The HWS models boast an overall smaller footprint and lighter weight than its HWT model siblings.

What's more, Hydron Module single-stage and dual compressor water-to-water models utilize stainless steel brazed plate heat exchangers, a time-proven technology that makes them incredibly efficient. The units are designed to supply heated or chilled water for use in a wide range of heating and cooling applications such as radiant floor heating or places where zones temperature or humidity controls are needed.

The HWD120 model features dual compressors for 2-stage operation.



Unit Features

- 6 sizes: 036, 048, 060, 072, 084, 120
- Copeland single-stage scroll compressor
- Dual Copeland single-stage scroll compressor on WD120
- Front, top & rear access
- Electronic controls with safety lock out
- Stainless brazed plate heat exchangers (BPHX)
- Thermostatic expansion valve
- High and low access ports
- Desuperheater with internal pump
- Heavy gauge, painted steel cabinet with stainless steel door panels
- R-410a zero-ozone depletion refrigerant
- Optional cupronickel heat exchanger
- Standard 10/10/5 warranty
- Limited Lifetime compressor coverage
(see warranty page for details)



Air Handlers and Coils



MP Series Multi-Position DX Air Handlers

- AHRI match for Hydron Module split systems
- Multi-position air pattern
 - Ships in upflow configuration
 - Field convertible to downflow and horizontal configuration (downflow kit required for downflow operation)
- Variable speed ECM fan motor
- Factory-installed R-410a TXV
- Corrosion-proof plastic drain pan with primary and secondary drain connections
- Oversized copper tube/aluminum fin "A" coil for maximum efficiency
- Sweat refrigerant line set connections
- Narrow width (25" maximum) for small closet installations
- Slide-out blower assembly
- Optional downflow kit
- Optional field-installed internal electric heat with circuit breakers
- Optional filter rack with standard size 1" filters
- Consult warranty page for coverage details

AC Series DX "A" Coils

- AHRI match for Hydron Module split systems
- Uncased design for maximum flexibility, especially on retrofit applications
- Corrosion-proof plastic drain pan with primary and secondary drain connections
- Oversized copper tube/aluminum fin "A" coil for maximum efficiency
- Sweat refrigerant line set connections
- Factory-installed R-410a TXV
- Consult warranty page for coverage details



MC Series DX Cased Coils

- Same features as the AC DX "A" Coil, but enclosed in a rigid cabinet for easy installation, especially on retrofit applications.

MP Series Multi-Position Hydronic Air Handlers

- Optimized for use with Hydron Module water-to-water heat pumps
- Multi-position air pattern
 - Ships in upflow configuration
 - Field convertible to downflow and horizontal configuration
- Variable speed ECM fan motor
- Single coil for both chilled water and hot water
- Designed for 100°F to 120°F water in heating operation
- Oversized copper tube/aluminum fin “A” coil for maximum efficiency
- Copper sweat water connections
- Narrow width (25” maximum) for small closet installations
- Slide-out blower assembly
- Corrosion-proof plastic drain pan with primary and secondary drain connections
- Optional filter rack with standard size 1” filters
- Consult warranty page for coverage details



AC Series Hydronic “A” Coils

- Optimized for use with Hydron Module water-to-water heat pumps
- Single coil for both chilled water and hot water
- Designed for 100°F to 120°F water in heating operation
- Corrosion-proof plastic drain pan with primary and secondary drain connections
- Copper sweat water connections
- Consult warranty page for coverage details



MC Series Hydronic Cased Coils

- Same features as the AC Hydronic “A” Coil, but enclosed in a rigid cabinet for easy installation, especially on retrofit and dual fuel applications.

Unit Accessories



Loop Pipe

- Pre-assembled U-bend coils
- Straight pipe
- Coiled pipe
- Pond spaced coils



Fittings

- Headers
- Elbows
- Unions
- Couplings
- Tees
- Bushings

Flow Centers & Replacement Pumps

Composite/Brass Valve Double O-ring Fittings

- Double O-ring fittings or 1" NPT connections
- Front flush ports
- Foam insulated cabinet stops condensation
- High impact polystyrene cabinet will not rust
- Fully assembled and leak tested



Non-Pressurized

- Double O-ring fittings or 1" NPT connections
- Foam insulated cabinet stops condensation
- Fully assembled and leak tested
- Variable speed available



Variable Speed

- Magna GEO pumps
- ECM motor technology
- 1" brass flush valves
- Built-in control
- Graphic display



Hose Kits & Loop Add-Ons

- GeoPrime reservoir tanks
- Geo Booster
- Pressure batteries



Enhanced Touch Screen

- Wi-Fi enabled
- Free mobile apps
- Easy-to-use Ecobee web portal
- No monthly/annual fees
- Live weather
- Full color touch screen
- Humidity control
- Two dry contact inputs
- Optional temperature sensors



Touch Screen

- Single stage / multi-stage
- Programmable (7-day, 5/1/1 day) or non-programmable
- Hard wired or battery powered with power stealing assist
- Remote sensing indoor or outdoor and at the thermostat
- Programmable fan with comfort circulator fan option
- Enhanced dehumidification control
- Automatic daylight savings option
- Flow-through humidifier water-saving feature — up to 50%
- Large, 12 square inch display with 10-second backlight
- Exclusive energy saving feature during peak A/C demand periods
- Dual fuel heat pump logic program requires no outdoor sensor



Non-Programmable

- Hard wired or battery powered with power stealing assist
- Large, 4 square inch blue display with easy-to-see characters
- Hydronic 2 or 3 wire zone valve applications
- Exclusive energy saving feature during peak A/C demand periods
- Simple set-up menu to activate optional features
- Single stage / multi-stage

Unit Accessories

EWC Zoning Dampers & Panels

URD

- Nylon blade shaft notched to indicate blade position
- Male crimped end to ease installation process
- Open and closed LEDs indicate blade position
- Nylon shaft provides thermal barrier to eliminate condensation
- Integrated seal eliminates loose gasket material
- Integrated door seal provides 97% shut off to 1" W.C.
- Min/Max adjustable closed set points



UZC : COMPATIBLE WITH ALL HVAC SYSTEMS UP TO 4 STAGES OF HEAT AND 2 STAGES OF COOL

- Auto-changeover and fan control from any zone
- Computer watchdog circuitry prevents lock-ups from power failures and power interruptions
- Controls up to 20 zones
- LED display for complete diagnostic system readout
- Adjustable heating and cooling limits to protect equipment



ND

- Nylon blade shaft notched to indicate blade position
- Heavy gauge extruded aluminum frame
- Nylon blade bushings allow for smooth, quiet operation
- Open and closed LEDs indicate blade position
- Nylon shaft provides thermal barrier to eliminate condensation
- Overlapping blades provides 97% shut off up to 1" W.C.
- Custom and odd sizes available



SID [SLIP-IN-DAMPER]

- Allows for up to 20 SID's on one EWC control panel
- More sizes available than any other component
- Optional end switch for additional interface



BMPLUS : COMPATIBLE WITH ALL HVAC SYSTEMS UP TO 3 STAGES OF HEAT AND 2 STAGES OF COOL

- Dual fuel kits not required
- One zone mode
- Automatic changeover from any zone
- Computer watchdog circuit to ensure operation
- Supply air sensor included
- Optional outdoor air sensor



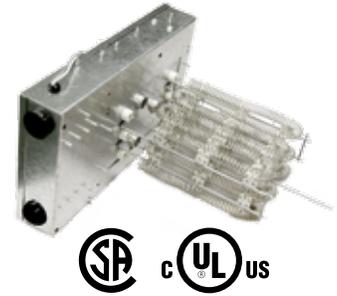
NCM : SINGLE STAGE, DUAL FUEL AND HEAT PUMP COMPATIBLE UP TO 3 ZONES

- Computer watchdog circuit
- Auto-changeover from any zone
- LED display for complete system readout
- Supply air sensor to protect equipment
- Adjustable purge time



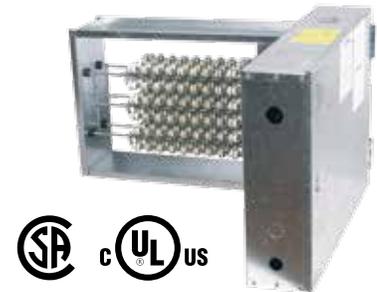
INTERNAL AUXILIARY ELECTRIC HEATER

- Single piece design (no separately mounted control box)
- Heater staging (HYT, HXT & HCT models)
- Low voltage harness for direct connection to relay board
- Automatic high limit and auxiliary limit switches for over temperature protection
- Internal circuit breakers



EXTERNAL DUCT HEATER

- Used for horizontal units
- Left hand offset control box
- Automatic limit switch for primary over temperature protection
- Energized magnetic control contractor per stage
- Manual reset limit switch for secondary over temperature protection
- Removable hinged access door with latch
- Internal fusing where required by NEC and UL



Unit Accessories

Filters

ELECTRONIC DYNAMIC® FILTER

- High efficiency electronic air cleaners
- MERV equivalency rating of 13
- Disposable low static polarized media
- Media contains activated charcoal

Sizes: 16"x 20"x 1" up to 28"x 34"x 1"
(see price book for actual sizes and compatibility)



ELECTROSTATIC FILTERS

- Self charging media
- 3 filtration layers
- Washable filter
- Lifetime warranty

Sizes: 16"x 20"x 1" up to 38"x 36"x 1"
(see price book for actual sizes and compatibility)

The Best Geothermal Warranty!

The highest quality product should have a warranty that reflects the confidence in design and construction of Hydron Module Geothermal Systems. The Hydron Module brand is the **ONLY** geothermal product line that offers a no charge Limited Lifetime All-Aluminum Microchannel Air Coil and Compressor warranty. Plus, Hydron Module's standard residential warranty covers all internal components with a labor allowance for ten years. Even select accessories are covered for ten years. That's peace of mind!

At Enertech, quality assurance is one of the guiding principles in the way we do business. We realize that successful business relationships are earned by providing superior products backed by the highest quality technical and customer support.



The ten-year standard residential warranty includes...

- **All unit components including**
 - Compressor
 - Water-to-refrigerant heat exchanger
 - Air-to-refrigerant heat exchanger (not applicable on water-to-water units)
 - All internal refrigerant circuit parts
 - All internal water circuit parts
 - All internal controls/electrical parts, including fan motor if applicable
 - Internal electric heater
 - Desuperheater pump
- **Select accessory items**
 - Hydron Module thermostat
 - Flow center (cabinet and pump motors) purchased through Enertech
 - EWC Zoning (panel and dampers) purchased through Enertech
- **Five year labor allowance on all of the above listed items including accessories**

Plus...

- Warranty registration provides an additional **5-year Service Labor Allowance** (years 6-10) plus a **Lifetime Limited Microchannel Air Coil and Compressor Warranty** that covers the all-aluminum micro channel air coil heat exchanger and compressor to the original homeowner. Coverage is for one-time replacement, parts only, and is non-transferrable. Warranty must be registered online or via mail-in form within 60 days of installation.
- Built-in trip charge and refrigerant allowance provides higher labor allowances than other manufacturers.
- Optional warranty reductions available; 5/5/5 or ENERGY STAR minimums. The Limited Lifetime Warranty coverage is not available with reduced warranty coverage options.

Enertech Global, LLC Warranties Residential Single Family Applications - Hydron Module Brand

STANDARD WARRANTY: Effective January 1, 2014

Enertech Global, LLC warrants the REFRIGERANT SYSTEM, to include the compressor, air coil, expansion valve, and reversing valve, to be free from defect in material and workmanship for a period of TEN (10) YEARS FROM THE DATE OF INSTALLATION.¹ Compressor and Micro Channel Heat Exchanger (MCHX) include a limited lifetime warranty to the original purchaser-user with Enertech's receipt of the completed on-line or mail-in registration form⁶.

Enertech Global, LLC warrants its GEOTHERMAL UNIT against defect in materials and workmanship for TEN (10) YEARS FROM THE DATE OF INSTALLATION.¹

Enertech Global, LLC warrants SERVICE LABOR ALLOWANCES for FIVE (5) YEARS,^{1,2} for servicing, removing, or reinstalling parts for the refrigerant circuit, steel cabinets or for any defect in materials and workmanship as set forth above. **Warranty registration provides an added Five (5) year (years 6-10) SERVICE LABOR ALLOWANCE.**

Accessories³ (thermostat, auxiliary electric heater, EWC zoning⁴ and flow center) are warranted for ten (10) years. Service labor allowances are given on the same parts for five (5) years, and five (5) years, on stated accessories to the original purchaser-user.

OPTIONAL WARRANTIES:

Enertech Global, LLC's receipt of the completed on-line or mail-in registration form, provides a limited lifetime ONE TIME, PARTS ONLY warranty coverage, to the original owner, for the compressor and aluminum Micro-Channel Air Coil (MCHX) for the life of the unit². Option requires original warranty registration and may not be used with any reduced warranty purchases. Enertech Global, LLC offers a reduced 5/5/5 GEOTHERMAL UNIT warranty covering PARTS, SELECT UNIT ACCESSORIES and SERVICE LABOR ALLOWANCE for FIVE (5) years. Enertech Global, LLC offers a reduced ENERGY STAR minimum GEOTHERMAL UNIT warranty covering SELECT PARTS, UNIT ACCESSORIES and SERVICE LABOR ALLOWANCE for FIVE (5) or TWO (2) years. Only one reduced warranty coverage may be selected.

WARRANTY COVERAGE SUMMARY:

Components	Standard		Warranty Registration ²	5-5-5 Warranty	Energy Star Warranty	Service Labor Allowances ⁵
	Parts	Labor Allowance	Labor Allowance	Parts/Labor Allowance	Parts/Labor Allowance	
Compressor	10	5	10	5	5	\$375
Air Coil	10	5	10	5	5	\$210 - \$375
Refrig. to Air/Water Heat Exchanger	10	5	10	5	5	\$210 - \$375
Reversing Valve	10	5	10	5	5	\$375
Expansion Valve	10	5	10	5	5	\$210 - \$310
Refrigerant Leak (internal to unit)	N/A	5	10	5	5	\$130 - \$210
Water Leak (internal to unit)	N/A	5	10	5	5	\$130 - \$165
Blower Motor	10	5	10	5	2	\$100 - \$130
Control Board	10	5	10	5	2	\$100
Hydronic Air Coil	10	5	10	5	2	\$165 - \$195
Internal Circulating Pump	10	5	10	5	2	\$100
Internal Electric Heater	10	5	10	5	2	\$100
All other parts contained in the unit	10	5	10	5	2	\$100
Flow Center ^{3,7} / Flow Center Pump ^{3,7}	10	5	10	5	2	\$100
Thermostat ^{3,8}	10	5	10	5	2	\$100
EWC Zoning ^{3,4}	10	5	10	5	2	\$100

¹ Warranty start date will be delivery date unless proof of startup (no later than 90 days after invoice) is presented. All warranties must be purchased within 90 days of invoice. For unoccupied spec homes, extended warranty may be purchased within 360 days of invoice. Warranty commences at startup date.

² Warranty registration must occur within 60 days of installation or 6 months from Enertech's ship date.

³ Flow Center, Hydron Module Thermostat, Electric Heater, and EWC Zoning must be purchased from Enertech Manufacturing at time of unit purchase in order to qualify for warranty coverage.

⁴ EWC zoning warranty includes zone panel and dampers only (does not include other items/accessories)

⁵ All service labor allowances are flat rate, which include travel time, diagnosis, refrigerant recovery, new refrigerant (when necessary), and repair time.

⁶ Coverage includes a one (1) time replacement, parts only to the original home owner. Not allowed with any reduced warranty coverage, 5/5/5 or Energy Star minimum.

⁷ Variable speed motors, controller/meter kits and sensors are covered by the manufacturer's FIVE (5) year warranty.

⁸ ecobee thermostats are covered by the manufacturer's three (3) year warranty.

NOTES:

1) Warranty claim must be filed within 60 days (see warranty claim form for details).

2) Fuses, hose kits, controllers, sensors, and items not mentioned above are not covered under this program.

3) Factory pre-approval is required for anything outside the scope of this document.

Model	Type	Cooling BTU				Heating BTU				Dimensional Data without Control Box			Unit Weight (lbs)	
		Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP	Height	Width	Depth		
Vertical Packaged ^{1, 3, 4, 5, 6, 7}												Height with Control Box		
YT024	Ground Water	Future Product Release												
	Ground Loop	Future Product Release												
YT036	Ground Water	44,300	27.0	32,700	37.4	37,500	5.5	26,600	5.8	54.0"	25.4"	30.5"	61.25"	405
	Ground Loop	41,200	20.9	31,500	31.3	29,100	4.5	23,300	5.1					
YT048	Ground Water	57,100	26.2	44,100	35.3	49,500	5.2	35,900	5.5	54.0"	25.4"	30.5"	61.25"	450
	Ground Loop	53,300	20.2	42,600	29.6	39,900	4.3	32,000	4.9					
YT060	Ground Water	Future Product Release												
	Ground Loop	Future Product Release												
YT072	Ground Water	Future Product Release												
	Ground Loop	Future Product Release												
Compact Vertical Packaged ^{1, 3, 4, 5, 6, 7, 8}														
VS018	Ground Water	23,200	27.5	-	-	20,100	5.0	-	-	37.3"	22.5"	22.5"	-	260
	Ground Loop	21,400	20.0	-	-	16,300	3.9	-	-					
VS024	Ground Water	28,100	26.0	-	-	24,200	4.9	-	-	37.3"	22.5"	22.5"	-	265
	Ground Loop	26,000	19.7	-	-	19,400	4.0	-	-					
VS030	Ground Water	33,100	24.4	-	-	29,800	4.9	-	-	37.3"	22.5"	22.5"	-	285
	Ground Loop	30,600	18.5	-	-	23,900	4.0	-	-					
VS036	Ground Water	40,500	23.5	-	-	37,600	4.6	-	-	37.3"	22.5"	22.5"	-	310
	Ground Loop	37,800	18.0	-	-	30,200	3.9	-	-					
VT024	Ground Water	27,600	23.8	19,900	28.4	23,900	4.6	16,800	4.2	37.3"	22.5"	22.5"	-	265
	Ground Loop	25,800	18.6	19,300	24.2	19,400	4.0	14,800	3.8					
VT036	Ground Water	40,000	22.8	29,500	29.8	36,900	4.6	25,700	4.7	37.3"	22.5"	22.5"	-	310
	Ground Loop	37,400	17.7	28,500	25.2	29,500	3.9	22,900	4.2					
Vertical Packaged ^{1, 3, 4, 5, 6, 7, 8}												Height with Control Box		
XT024	Ground Water	29,600	26.9	22,400	35.0	24,700	5.2	18,500	5.4	56.1"	28"	32.2"	62.5"	415
	Ground Loop	27,200	20.3	21,400	29.1	19,800	4.3	16,600	4.8					
XT036	Ground Water	42,200	24.0	31,100	32.6	37,000	5.1	26,000	5.2	56.1"	28"	32.2"	62.5"	420
	Ground Loop	38,900	18.3	29,900	27.0	29,200	4.2	23,200	4.6					
XT048	Ground Water	53,100	22.1	39,400	29.4	47,400	4.6	33,700	4.9	56.1"	28"	32.2"	62.5"	433
	Ground Loop	49,000	17.1	37,400	24.1	38,200	3.9	29,700	4.3					
XT060	Ground Water	67,700	22.4	50,800	29.8	60,000	4.5	43,300	4.8	60.1"	28"	32.2"	66.5"	466
	Ground Loop	63,000	17.8	49,000	24.9	47,700	3.7	38,600	4.3					
XT072	Ground Water	75,600	21.1	59,200	26.9	70,300	4.3	52,800	4.6	60.1"	28"	32.2"	66.5"	479
	Ground Loop	71,100	17.1	57,500	23.0	55,900	3.6	46,700	4.1					
Horizontal Packaged ^{1, 3, 4, 5, 6, 7}														
HT024	Ground Water	25,700	21.6	19,400	25.8	24,400	4.6	17,600	4.8	22"	26"	54"	-	330
	Ground Loop	23,700	17.6	18,300	22.9	18,900	3.8	15,500	4.2					
HT036	Ground Water	37,500	21.4	27,600	27.3	36,600	4.7	25,600	4.9	22"	28"	66"	-	385
	Ground Loop	35,400	16.8	27,100	23.5	29,200	3.9	22,800	4.4					
HT048	Ground Water	52,200	23.2	39,400	29.7	46,300	4.6	33,000	4.9	24"	30"	68"	-	435
	Ground Loop	49,500	18.2	38,300	24.9	37,200	3.9	29,700	4.3					
HT060	Ground Water	64,100	22.0	48,500	28.1	57,500	4.4	40,700	4.6	24"	30"	68"	-	460
	Ground Loop	60,400	17.5	47,000	23.8	46,400	3.7	36,700	4.1					
Cold Climate Series ^{1, 3, 4, 5, 6, 7}														
VC036	Ground Water	35,600	27.0	-	-	45,400	3.9	33,300	4.2	53.1"	27"	31.1"	-	350
	Ground Loop	34,700	21.5	-	-	37,200	3.6	29,900	3.9					
VC048	Ground Water	49,400	25.9	-	-	54,000	3.9	37,900	4.3	53.1"	27"	31.1"	-	365
	Ground Loop	46,800	22.0	-	-	43,300	3.4	33,800	3.8					
VC060	Ground Water	51,300	25.1	-	-	60,300	4.0	48,100	4.2	53.1"	27"	31.1"	-	380
	Ground Loop	51,100	19.6	-	-	52,500	3.5	43,000	3.7					

Notes:

1. Rated in accordance with AHRI/ISO standard 13256-1, which includes pump penalties.
2. Rated in accordance with ISO Standard 13256-2, which includes pump penalties.
3. Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature.
4. Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.
5. Entering water temperatures Full Load: 32°F heating / 77°F cooling.
6. Entering water temperatures Part Load: 41°F heating / 68°F cooling.
7. All Desuperheater connections are 3/4" FPT.
8. Width excludes filter rack (width with rack is 30.3")
9. ST072 with ACD060C is not ENERGY STAR rated for Open Loop Applications
10. For the source water loop, open loop models use 1" fittings.

Model	Type	Cooling BTU				Heating BTU				Dimensional Data			Unit Weight (lbs)	
		Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP	Height	Width	Depth		
Water-to-Water ^{2, 11}												Src. In	Src. Out	280
												Load In	Load Out	
WT036	Ground Water	44,300	20.6	34,600	24.5	44,900	3.6	33,300	3.5	24"	26"	34"	1"	1"
	Ground Loop	42,000	16.0	33,300	20.6	36,400	3.0	29,200	3.1				1"	1"
WT048	Ground Water	54,300	19.8	40,800	23.0	55,100	3.6	40,500	3.4	24"	26"	34"	1"	1"
	Ground Loop	49,400	15.1	38,800	19.2	44,100	3.0	35,700	3.1				1"	1"
WT060	Ground Water	62,700	19.0	47,800	21.4	66,200	3.6	49,500	3.5	24"	26"	36"	1"	1"
	Ground Loop	57,800	14.6	46,100	18.1	53,200	3.0	44,400	3.1				1"	1"
WT092	Ground Water	107,100	19.8	78,500	22.2	117,000	3.8	82,300	3.5	24"	30"	48"	1"	1 1/4"
	Ground Loop	100,200	15.2	75,700	18.6	92,400	3.1	72,200	3.1				1"	1 1/4"
WT120	Ground Water	124,400	20.1	-	-	124,900	3.5	-	-	24"	30"	48"	1"	1 1/4"
	Ground Loop	114,800	15.4	-	-	97,400	2.8	-	-				1"	1 1/4"
Water-to-Water ¹⁰												Src. In	Src. Out	210
												Load In	Load Out	
WS036	Ground Water	36,600	23.5	-	-	34,500	3.7	-	-	29.2"	23.4"	25.8"	1 1/4"	1 1/4"
	Ground Loop	34,700	18.2	-	-	26,600	3.1	-	-				1 1/4"	1 1/4"
WS048	Ground Water	56,300	23.3	-	-	54,200	3.9	-	-	29.2"	23.4"	25.8"	1 1/4"	1 1/4"
	Ground Loop	52,800	17.7	-	-	42,100	3.1	-	-				1 1/4"	1 1/4"
WS060	Ground Water	64,900	22.5	-	-	63,300	3.9	-	-	29.2"	23.4"	25.8"	1 1/4"	1 1/4"
	Ground Loop	60,000	17.1	-	-	53,000	3.1	-	-				1 1/4"	1 1/4"
WS072	Ground Water	76,900	21.1	-	-	78,600	4.1	-	-	29.2"	23.4"	25.8"	1 1/4"	1 1/4"
	Ground Loop	73,300	17.7	-	-	63,100	3.4	-	-				1 1/4"	1 1/4"
WS084	Ground Water	88,700	20.8	-	-	80,600	3.5	-	-	29.2"	23.4"	25.8"	1 1/4"	1 1/4"
	Ground Loop	83,600	16.1	-	-	74,200	3.1	-	-				1 1/4"	1 1/4"
WD120	Ground Water	109,100	18.1	65,800	22.0	111,900	3.4	59,000	3.6	27.5"	27"	26.1"	1 1/4"	1 1/4"
	Ground Loop	104,600	14.5	63,500	19.8	100,100	2.8	57,500	3.4				1 1/4"	1 1/4"
Two-Stage Indoor Split ^{1, 3, 4, 5, 6, 9}												Ref. Conn.		180
												Liq.	Suct.	
ST024	Ground Water	26,900	20.8	19,100	26.8	23,500	4.2	16,200	4.1	18.8"	22"	25.5"	3/8"	7/8"
	Ground Loop	24,900	16.1	18,300	22.1	18,600	3.4	14,400	3.8				3/8"	7/8"
ST036	Ground Water	40,600	21.9	30,100	28.8	36,400	4.4	25,600	4.8	21.8"	26"	30.5"	3/8"	7/8"
	Ground Loop	38,000	16.5	28,900	23.9	28,400	3.7	22,600	4.2				3/8"	7/8"
ST048	Ground Water	53,200	24.0	40,900	30.5	44,600	4.5	31,800	4.9	22.8"	26"	30.5"	3/8"	7/8"
	Ground Loop	48,600	18.7	39,400	26.4	35,900	3.8	27,900	4.2				3/8"	7/8"
ST060	Ground Water	65,900	21.0	49,100	26.3	55,400	4.1	39,400	4.4	22.8"	26"	30.5"	1/2"	1 1/8"
	Ground Loop	62,200	16.8	47,400	22.5	44,200	3.5	34,700	3.9				1/2"	1 1/8"
ST072	Ground Water	71,800	20.1	55,600	25.8	64,000	4.0	47,000	4.1	22.8"	26"	30.5"	1/2"	1 1/8"
	Ground Loop	68,000	15.7	53,600	21.8	51,800	3.4	41,900	3.7				1/2"	1 1/8"
Outdoor Split ^{1, 3, 4, 5, 6}												Ref. Conn.		180
												Liq.	Suct.	
RT024	Ground Water	-	-	-	-	-	-	-	-	23.4"	32"	28.8"	3/8"	7/8"
	Ground Loop	24,600	15.9	19,600	23.7	17,800	3.4	14,700	3.9				3/8"	7/8"
RT036	Ground Water	-	-	-	-	-	-	-	-	23.4"	32"	28.8"	3/8"	7/8"
	Ground Loop	36,000	16.7	27,800	25.3	27,200	3.8	21,700	4.2				3/8"	7/8"
RT048	Ground Water	-	-	-	-	-	-	-	-	23.4"	32"	28.8"	3/8"	7/8"
	Ground Loop	50,800	18.0	39,000	25.4	36,400	3.9	29,800	4.4				3/8"	7/8"
RT060	Ground Water	-	-	-	-	-	-	-	-	23.4"	32"	28.8"	1/2"	1 1/8"
	Ground Loop	61,500	17.2	47,900	24.1	45,600	3.5	37,000	4.1				1/2"	1 1/8"
Combination ^{1, 3, 4, 5, 6, 7, 8}												Height with Control Box		415
CT024	Ground Water	28,900	26.0	22,100	32.7	24,300	5.1	17,700	5.0	56.1"	28"	32.2"	62.5"	415
	Ground Loop	26,500	20.0	20,900	27.3	19,700	4.2	15,700	4.5				62.5"	
CT036	Ground Water	41,700	23.5	30,400	31.9	36,700	5.0	25,600	5.2	56.1"	28"	32.2"	62.5"	420
	Ground Loop	38,600	18.3	29,100	26.8	28,600	4.1	22,400	4.6				62.5"	
CT048	Ground Water	53,100	21.8	39,400	29.4	46,700	4.6	33,700	4.9	56.1"	28"	32.2"	62.5"	435
	Ground Loop	49,000	17.1	37,400	24.1	38,000	3.9	29,700	4.3				62.5"	
CT060	Ground Water	65,600	21.7	49,800	29.0	58,500	4.4	41,500	4.7	60.1"	28"	32.2"	62.5"	535
	Ground Loop	61,300	17.4	48,000	24.4	46,500	3.7	36,400	4.1				62.5"	
CT072	Ground Water	75,100	20.2	59,100	25.5	70,300	4.2	52,600	4.5	60.1"	28"	32.2"	62.5"	550
	Ground Loop	70,500	16.2	57,000	22.0	55,900	3.6	46,500	4.0				62.5"	

Notes:

- 11. Heating capacities based on 32°F EST & 104°F ELT.
- Cooling capacities based on 77°F EST & 53.6°F ELT.
- Entering load temperature over 120°F heating and under 45°F Cooling is not permissible.
- Floor heating is most generally designed for 85°F entering load temperature.
- Models 092 and 120 have two IN connections, but only one OUT connection.
- Models 092 and 120 do not meet ENERGY STAR Tier 3 ratings.

Model	Size (tons)	Dimensional Data			Liquid	Suction	Unit Weight (lbs)
		Height	Width	Depth			
AC Series DX "A" Coils					Liquid	Suction	
ACD024	2	14.5"	16.625"	19"	3/8"	3/4"	27
ACD036	3	18.5"	19.625"	19"	3/8"	3/4"	34
ACD060	4 - 5	27.875"	23.75"	20.5"	3/8"	7/8"	52
AC Series Hydronic "A" Coils					Water Connection Size (Sweat "L" Copper)		
ACH024	2	18.5"	16.63"	19"	3/4"	3/4"	36
ACH036	3	21"	19.63"	19"	3/4"	3/4"	43
ACH060	4 - 5	28"	23.92"	20.5"	3/4"	3/4"	64
AC Series DX Cased "A" Coils					Liquid	Suction	
MCD024	2	20"	17.5"	21"	3/8"	3/4"	47
MCD036	3	24"	21"	21"	3/8"	3/4"	58
MCD060	4 - 5	34"	24.5"	21.5"	3/8"	3/4"	89
AC Series Hydronic Cased "A" Coils					Water Connection Size (Sweat "L" Copper)		
MCH024	2	20"	17.5"	21"	3/4"	3/4"	56
MCH036	3	24"	21"	21"	3/4"	3/4"	68
MCH060	4 - 5	34"	24.5"	21.5"	3/4"	3/4"	101

Model	Size (tons)	Dimensional Data			Return Air Opening		Unit Weight (lbs)
		Height	Width	Depth	Width	Depth	
MP Series Multi-Position DX Air Handlers					Width	Depth	
MPD024	2	43"	17.625"	21"	15.5"	19.75"	130
MPD036	3	48"	21.125"	21"	19.75"	19.75"	150
MPD060	4 - 5	58.875"	24.625"	21.75"	23.5"	20.75"	200
MPD072	6	58.875"	24.625"	21.75"	23.5"	20.75"	205
MP Series Multi-Position Hydron Air Handlers					Width	Depth	
MPH024	2	43"	17.625"	21"	15.5"	20.25"	135
MPH036	3	48.25"	21.125"	21"	19"	20.25"	165
MPH048	4	58.75"	25"	22"	22.25"	20.5"	210
MPH060	5	58.75"	25"	22"	22.25"	20.5"	215



Geothermal University® curriculum is developed from Enertech's history and current position in the geothermal heating and cooling industry. Stemming from the grass roots of geothermal technology, backed by manufacturing expertise, and supported by field experience, courses are designed to provide the knowledge and confidence of designing, selling, installing and servicing Enertech made geothermal systems.

Geothermal University offers training for the complete geothermal industry. IGSHPA certification and NATE continued education hours are incorporated into our curriculum along with specific design and sales courses for Enertech manufactured equipment.

All training sessions are geared towards technicians, designers, or sales personnel specific to the HVAC industry. Training will be coordinated through Enertech's corporate office and our distributing partners.

Available courses include:

Applied Service & Installation
Sales & Marketing
Design, Sizing & Software
Fusion & Flushing
Geothermal Hydronic Systems

Geothermal Troubleshooting
IGSHPA/NATE Certified
Installer Workshop
Product Introduction/Update



Our Guarantee



We guarantee 100% student satisfaction for every course led by an Enertech trainer.

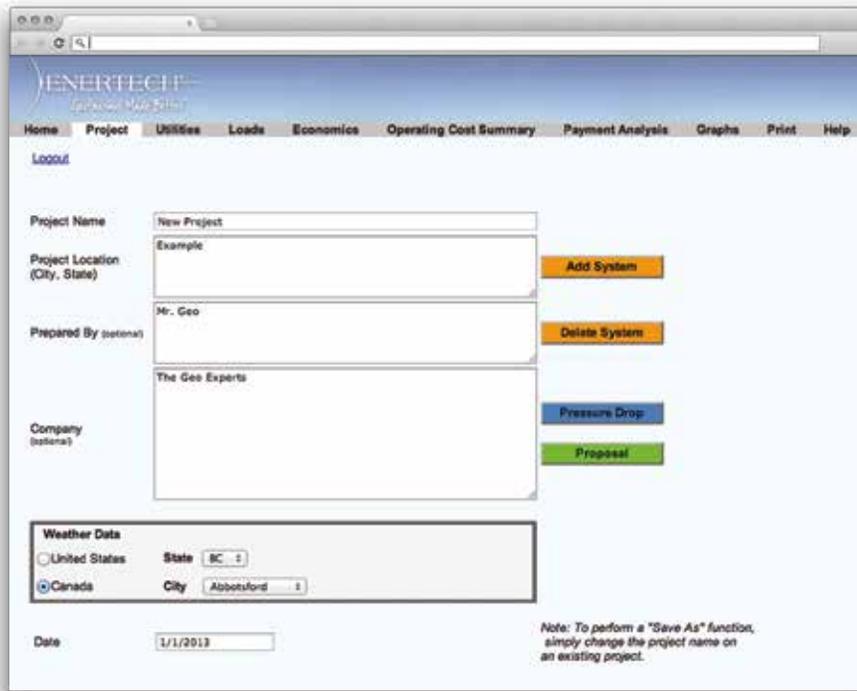
New Online Resources



Geothermal University has a growing library of videos and workbooks that can be found online. Great for geothermal installers who are eager to stay ahead of the curve!

Training Provider





No other software has as many features.

Even more important, the loop sizing portion uses “pure” IGSHPA algorithms, not manufacturer-adjusted loop sizing formulas. The ease of use and configuration ability provides users with an accurate system analysis at a low annual maintenance fee, which includes free updates.

GeoAnalyst is continually updated with new features. 98% furnaces were recently added, as were 21 SEER air conditioners. Changes in equipment, enhanced features, and other usable upgrades are instantly available in the new online version. There is no longer a need to update the software.

Features

- Ability to compare up to 5 other conventional systems
- Allows the user to save multiple utility files
- I.P. or S.I. utility cost choices (e.g. \$/gallon or \$/liter)
- 14 pre-configured ground loop choices, plus user-defined horizontal loop and open loop (well water)
- “Auto Size” option for sizing loops based upon minimum/maximum entering water temperature
- Economic analysis with simple payback, cashflow analysis, and financing options. Has the ability to include rebates/credits and print graphs
- Choice of HDPE, PEX or user-defined pipe
- Choice of ASHRAE, EPRI or user-defined soil types
- Includes calculations for water-to-water heat pumps and combination units (water-to-water/water-to-air) for applications like radiant floor heating
- Bin data report and balance point calculation
- Includes the latest conventional equipment for comparisons (up to 21 SEER air conditioners/heat pumps and 98% efficiency furnaces)
- Comprehensive system reports for geothermal and conventional selections
- Pressure drop calculation module for sizing flow center pumps (central pumps or pump(s) for each unit)
- Calculates loop flushing requirements, antifreeze requirements, and Reynolds number
- Sales proposal module for creating a consumer-friendly sales proposal to explain the benefits of geothermal vs. the other compared systems
- All new bill of material generator simplifies the quoting and ordering process
- Allows reports to be customized with your company logo and contact information
- Dual fuel system comparisons for geothermal and air-to-air heat pumps
- “Save as Default” option to use saved local conditions for a new project

Hydron Module Marketing

Literature

We offer a complete assortment of Hydron Module consumer, technical and dealer recruitment literature to assist with every step of the sales process. Available in both printed and electronic format, materials include general geothermal educational pieces to product-specific technical brochures.

- Homeowner Geothermal Guide
- Geothermal Tax Incentives Brochure
- Consumer Product Brochures
- Engineering Data and Installation Manuals



Homeowner Video

Hydron Module has produced an informative video for homeowners that explains geothermal heating and cooling, the installation process and benefits in an easy-to-understand way.

The video is available in DVD format

and is an excellent tool for dealers to use early in the sales process.

Dealer Locator

The centerpiece of the Hydron Module consumer website (www.hydronmodule.com) is the Hydron Module Dealer Locator. Features include a search radius option, email contact, preset search result limits and full U.S. and Canada postal code database.

Lead Generation

We have enlisted several strategies to develop and supply strong leads for Hydron Module dealers. The dealer locator is one way in which leads are provided. We also advertise on third party websites in an effort to drive traffic to the consumer website and dealer locator.



Marketing Materials

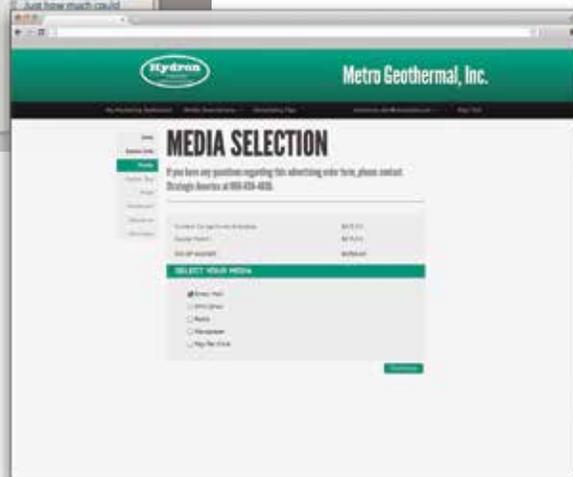
To further enhance the efforts of Hydron Module distributors and dealers, we have a wide array of merchandising, point-of-purchase and sales tools available. A dedicated promotional and trade show web store makes brand support easy. Elements like homeowner DVDs, fleet decals, showroom posters and training tools are designed to educate consumers and installers alike. New materials are in constant development.

- Print Advertising
- Radio Scripts
- Banners
- Fleet/Vehicle Graphics
- Apparel
- Giveaways
- Trade Show Graphics Program



ARC and Dealer Website Program

Putting your best foot forward on the web and increasing brand awareness is easy and convenient with our Dealer Website Program. In fact, a geothermal-focused dealer website can be online and ready for homeowners just by answering a few simple questions. After completing, a team of designers and writers will organize the information into a beautifully impressive website featuring your business.



We also offer seasonal promotions and marketing through our Advertising Resource Center, a one-stop-shop for advertising your geothermal business with just a few clicks of the mouse. It's advertising made simple and convenient to help you make the most of your time while garnering new business leads.

Communications

At Enertech Global, we believe communication can turn an ordinary relationship into an extraordinary one. That's why we make it easy for you to stay in touch and receive the information you need to effectively run your business. In fact, with Enertech, everything you need to be successful is just a click away!



Secure Website

With our secure website all the essentials are right at your fingertips. It features a convenient newsfeed displaying the most recent updates and information, plus you'll find a variety of online sales and marketing tools, including pricing, literature and branding support materials. The Enertech secure website also features a new Service Parts Generator, as well as a search box tool to help you find the information you need quickly.

Email Communications

We send a monthly newsletter called "In the Loop," which is a great way to quickly catch up month on new and exciting initiatives at Enertech. In the Loop newsletter articles cover everything upcoming events and product to important deadlines and price book update information.



Social Media

As a people-centric company, we understand the power and importance of social media. For industry news, company updates, and ideas on how to build your business, follow us on Facebook, Twitter, LinkedIn, and even our own blog, The Enerstate, at www.enertechgeo.com/blog. Check our social pages regularly and never miss out on important Enertech Global company information.

Hydron Module Facebook Page

In an effort to connect even better with our customers and friends, we are excited to add a Hydron Module Facebook page to our list of social outlets later this year. Visit the new page for exclusive behind the scenes looks at Hydron Module, general information about geothermal heating and cooling, and fun homeowner tips. You can even share our posts to your own page to help you connect with your customers and Facebook fans!

GEOHERMAL

Ground Loop Field

The heat exchanger also known as the loop system, captures the stored solar energy in the ground and delivers it back to the geothermal system in the house.

Your loop system is the heart of geothermal technology. There are four different types of loops. Your local geothermal dealer will help you select the proper loop system based on a site survey and by conducting a detailed energy analysis of your home.

Installing a geothermal loop system is like getting up to a 70% discount on energy for the life of your home.

Vertical loops are used mainly when land area is limited in retrofit applications of existing homes. A drilling rig is used to bore holes at a depth of 150 to 300 feet per ton. A U-shaped coil of high density pipe is inserted into the bore hole. The holes are then backfilled with a sealing solution.

Horizontal loops are commonly used when adequate land area is available. Loop installers use excavation equipment such as chain trenchers, backhoes and track hoes to dig trenches approximately 6-8 feet deep. Trench lengths range from 100 to 300 feet per ton, depending on the loop design and application. Directional bore machines can also be used.

Pond loops are an option if a large body of water is available within approximately 200 feet of the home. A ½ acre, 10 to 12 foot deep body of water is usually adequate to support the average home. The system uses coils of pipe typically 300 to 500 feet in length. The coils are placed in and anchored at the bottom of the body of water.

Open loop systems can be installed if an abundant supply of high quality well water is available. A typical home will require a well producing 4 to 8 gallons of water per minute. A proper discharge area such as a river, drainage ditch, stream, pond, or lake must be present. Check for local restrictions before selecting a specific discharge method.

Vertical Loop



Horizontal Loop



Pond Loop



Open Loop





Greenville, IL - Mitchell, SD

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www.hydronmodule.com



Proudly built in Mitchell, SD by



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