

Residential Product Catalog



HEAT PUMPS AND ACCESSORIES



EnertechUSA.com

Our Mission

To revolutionize the way homes and communities are heated and cooled by developing and manufacturing products that foster healthy, comfortable, and sustainable living environments for all.



Our Core Values

INTENTION

We aim to set a clear direction and consciously align our actions with our goals.

INTEGRITY

We are committed to conducting ourselves in an honest, respectful and straightforward manner.

CONTINUOUS IMPROVEMENT

We aspire for excellence in all aspects of our business.

Our Philosophy

Enertech Global was founded in 1996 as a family-owned and operated geothermal heat pump distributor. Since then, we've evolved to a manufacturer, delivering award-winning innovation and the highest quality products, from design to build. When you install an Enertech-built heat pump properly, you can be confident it will perform as it should. We've outgrown our family-owned status, but Enertech is still and always will be family-operated, with each employee and customer a valued member of our family. When you're part of the Enertech family, you experience:

PARTNERSHIP:

Our relationship is based on mutual respect and success. For us to thrive, we must help you thrive. This may mean going on-site with you for a job you're trying to secure or offering training to your employees, to help them become the best they can be.

PASSION:

Our employees are our best asset. We work with passion from product development to taking orders, selecting accessories, and building Enertech heat pumps. Visit our factory in Mitchell, SD, to see firsthand why our products are exceptional.

LOYALTY:

We are committed to earning the trust and allegiance of our product installers and distributors. We firmly believe that they deserve our highest quality and service, which positions us uniquely to enhance the profitability of their businesses.

CUSTOMER DRIVEN:

We listen. We act. Our decisions are always guided by our customers. You can experience this by being a part of our Dealer and Distributor Councils, which meet throughout a new product design and build to ensure we're including features and benefits that enhance your business and your customer's experience.

SOLUTION-ORIENTED:

Our customer's best interest is always our first priority. When needed we will work closely with our customers to find creative solutions, even if this means working outside our normal processes to ensure a mutually beneficial resolution.

QUALITY:

Our team is committed to manufacturing and providing the highest quality products. We prioritize customer feedback and ensure thorough testing of each unit. Enertech's equipment testing is the most robust in the industry, featuring a computerized run test station with helium leak detection and waterside decay testing. We test units in all heating and cooling modes to meet our high standards.

To demonstrate our commitment, Enertech is certified to ISO 9001, ISO 14001, and ISO 45001 quality and environmental management standards.



FORWARD THINKING:

We believe in contributing to the well-being of communities, cities, and countries where we do business. We aim to improve the global atmosphere and environment, ensuring you can trust a company that prioritizes sustainability over profit.

EXPERIENCE THE ENERTECH DIFFERENCE.

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.



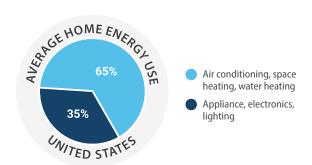
"Never will you find a greater comfort and peace of mind than with an Enertech geothermal heat pump. Our team is committed and has the vision to redefine heating and cooling systems for the world."

—**Tim Wright**CHIEF OPERATING OFFICER

Why You Should Go All-In on Geothermal

HOMEOWNERS NEED IT

Heating, cooling, and hot water dominate a home's energy use, accounting for approximately 65 percent of energy used. As a renewable technology that is up to 500 percent efficient and saves 30 to 70 percent on heating, cooling, and hot water costs, geothermal is the solution to meet the needs of today's homeowners.



INCENTIVES & FINANCING

There's a 30% federal tax credit for residential and commercial geothermal systems, and many local municipalities, state entities, and utilities offer further rebates and incentives. Visit



dsire.use.org or we'll help you contact your local utility or electric cooperative to find out more about programs in your area – or we can work to create one.

Some Canadian provinces offer incentives for geothermal. Since these offerings vary by Province, check rebates/incentives at ncran.gc.ca for more information.

Enertech has partnered with Regions Bank to provide financing options for your customers through Enertech Finance.

Some of the key benefits on Enertech Finance include:

- Multiple funding disbursements (For qualifying contractors)
- · Three easy paperless application methods
- Fast payment usually within 24 hours via ACH transfer
- Unsecured loans up to \$100K
- · No collateral, no liens at origination
- · Multiple loan products available
- · Marketing and training support
- Personalized support from a dedicated relationship manager



Visit **info.enerbank.com/enertech** for more information.

Enertech Geothermal Product Matrix



PRODUCT FEATURES	YT Models	VS/VT Models	ZS/ZT Models	BS/BT Models	WV Models	WT Models	WS Models
Function	Forced Air	Forced Air	Forced Air	Split System	Hydronic	Hydronic	Hydronic
Cabinet Configuration	Multi-Positional Vertical	Compact Vertical	Compact Horizontal	Indoor Split	Water-to-Water	Water-to-Water	Water-to-Water
Compressor Stages	Two	VS: Single VT: Two	ZS: Single ZT: Two	BS: Single BT: Two	Variable	Two	Single
Sizes	2 - 6 Tons	1/2 - 6 Tons	1/2 - 6 Tons	1 1/2 - 6 Tons	5 Ton	3 - 5 Tons	3 - 7 Tons
Refrigerant	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
Heating Efficiency (COP)* GLHP Part Load, Two-Stage Unit GLHP Full Load, Single-Stage Units	Up to 4.9	Up to 4.6	Up to 4.3	Up to 4.3	Up to 3.8	Up to 3.5	Up to 3.3
Cooling Efficiency (EER)* GLHP Part Load, Two-Stage Units GLHP Full Load, Single Stage Units	Up to 29.5	Up to 26.6	Up to 26.6	Up to 28.9	Up to 21.6	Up to 20.6	Up to 17.7
Copper Coaxial	Yes	Yes	Yes	Yes	N/A	Yes	N/A
Cupronickel Coaxial	Yes	Yes	Yes	Yes	N/A	Yes	N/A
Stainless Steel Brazed Plate Heat	N/A	N/A	N/A	N/A	Yes	N/A	Yes
HX Insulation	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Enclosed	Foam Enclosed
Air Coil	Aluminum Micro- Channel	Aluminum Micro- Channel	Aluminum Micro- Channel	N/A	N/A	N/A	N/A
Desuperheater	Optional	Optional	Optional	Optional	Indirect Hot Water	Optional	Optional
Auxiliary Heat	One-Piece Internal	External Close Coupled (Excluding VS006- 012)	External Close Coupled (Excluding ZS006- 012)	N/A	Internal Immersion Heater/Dual Fuel Options Available	N/A	N/A
Blower	Variable Speed ECM	PSC:VS006-VS018 ECM: All, excluding VS006-VS012	PSC: ZS006-ZS018 ECM: All, excluding ZS006-ZS012	N/A	N/A	N/A	N/A
Selectable CFM	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Freeze Protection	Digital	Digital	Digital & Flow Switch	Flow Switch	Digital & Flow Switch	Flow Switch	Digital
Controls	Digital	Digital	Digital	Digital	Advanced Digital	Digital	Digital
Water Fittings	Double O-ring	Double O-ring	3/4" FPT - ZS006- 017 1" FPT - ZS/ZT018- 072	Double O-ring	Double O-ring	Double O-ring - Source 1" FPT - Load	1.25" MPT
Air Handler Match	N/A	N/A	N/A	Yes	Yes	Yes	Yes
"A" Coil Match	N/A	N/A	N/A	Yes	Yes	Yes	Yes
EPIC Connected Controls Powered by myUplink	Yes	Yes (VT)	Yes (ZT)	Yes	Yes	ТВА	ТВА

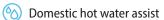
^{*} See pages 20 - 23 for extended performance data



YT | 2-STAGE Multi-Position Vertical Packaged Unit

Our Best Selling Product!









UNIT FEATURES

5 Sizes: 024, 036, 048, 060, 072

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- Compatible with most heat pump thermostats and WiFi networks
- Intuitive, future-proofed design

All-Aluminum Micro-Channel Air Coil (MCHX)

Elastomeric compressor isolation mounting suspension

Field selectable Multi-Positional return air pattern

Optional Factory Installed soft start kit

Copeland Two-Stage Scroll Compressor

Factory supplied discharge and return duct flanges

Optional deluxe filter rack (allows 1" or 2" filters)

Composite, anti-microbial drain pan

Eye Level easy to access advanced digital controls with status light viewing window

ECM Blower Motor

Double O-Ring Water Fittings

3/4" FPT Hot Water Generator (HWG) connections

Copper or Optional Cupronickel Heat Exchanger

Optional cabinet-mounted Flow Center (YT024 excluded)



WARRANTY

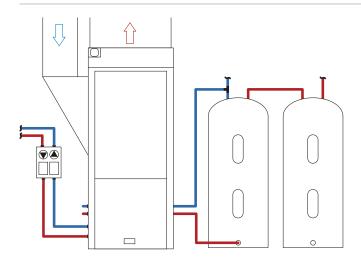
Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor and MCHX extended warranty, years 11 to 18



Other Optional Warranties available

See page 28 for more Warranty details





VS/VT | SINGLE OR 2-STAGE

Compact Vertical Packaged Unit

Made to fit in tight spaces.



Forced air heating and cooling



Domestic hot water assist



Optional EPIC connected controls (VT)



UNIT FEATURES

VS - 5 Sizes: 006, 009, 012, 015, 018

VT - 7 Sizes: 024, 030, 036, 042, 048, 060, 072

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- · Compatible with most heat pump thermostats and WiFi networks
- · Intuitive, future-proofed design

All-Aluminum Micro-Channel Air Coil (MCHX)

Elastomeric compressor isolation mounting suspension

Small foot-print cabinet with removable access panels.

Double O-Ring Water Fittings

High Density Foam Insulated Flat Wound **Enhanced Surface Coaxial Heat Exchanger**

Front plate-mounted refrigeration service ports give easy access to refrigerant circuit

VS006-015 - LG Rotary Compressor

VS018 - Copeland Single-Stage Scroll Compressor

VT - Copeland 2-Stage Scroll Compressor

VS - Models 006-012 come with Corrosion-proof stainless steel drain pan

VS/VT - Models 018-072 come with Composite, anti-microbial drain pan with condensate overflow protection sensor

Rugged Steel Cabinet with Removable Access Panels

Easy access control box - folds up and out for service

Thermostatic Expansion Valve (TXV) metering for extended range of loop temperatures

Digital Controls with Fault Retry and Service LED's

Optional ECM Blower Motor

VS015-018 – Standard Desuperheater with Internal Pump

VT024-072 – Standard Desuperheater with Internal Pump

Copper or Optional Cupronickel Heat Exchanger

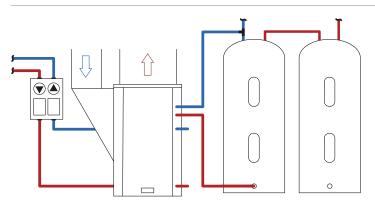
WARRANTY

Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor and MCHX extended warranty, years 11 to 18



Other Optional Warranties available See page 28 for more Warranty details



ZS/ZT | SINGLE OR 2-STAGE Compact Horizontal Packaged Unit

A light unit with high efficiencies.



- 😘 Forced air heating and cooling
- Omestic hot water assist
- Optional EPIC connected controls (ZT)



UNIT FEATURES

ZS – 6 Sizes: 006, 009, 012, 015, 017, 018 ZT – 7 Sizes: 024, 030, 036, 042, 048, 060, 072

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- Compatible with most heat pump thermostats and WiFi networks
- Intuitive, future-proofed design

Field convertible side or end discharge

UL GREENGUARD certified foam insulation

Optional 1" or 2" filter rack available

Standard Copper Coaxial Heat Exchanger

Cupronickel Coaxial Heat Exchanger

All-Aluminum Micro-Channel Air Coil (MCHX)

ZS – Optional PSC or ECM Blow Motor

ZT - ECM Blow Motor

Optional Factory Installed soft start kit Corrosion-proof stainless steel drain pan ZS006-015 – LG Rotary Compressor ZS017-018 – Copeland Single-Stage Scroll Compressor

ZT – Copeland 2-Stage Scroll Compressor

ZS015-018 – Standard Hot Water Generator (HWG) with Internal Pump

ZT – Standard Hot Water Generator (HWG) with Internal Pump

ZS – 3/4" FPT Water Fittings (006-017). 1" FPT Water Fittings (018)

ZT - 1" FPT

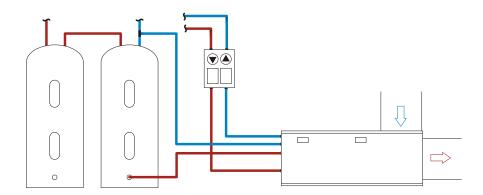
WARRANTY

Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor and MCHX extended warranty, years 11 to 18



Other Optional Warranties available
See page 28 for more Warranty details





BS/BT | SINGLE OR 2-STAGE Indoor Split Unit

Made to standalone or as part of a dual-fuel system.

Forced air heating and cooling

O Domestic hot water assist

Optioinal EPIC connected controls



UNIT FEATURES

BS - 1 Size: 018

BT - 5 Sizes: 024, 036, 048, 060, 072

Matched multi-position air handler or A-coil

Digital controls with fault retry, service fault LED's and remote fault indication

BS018 – Copeland Single Speed Scroll Compressor

BT – Copeland 2-Stage Scroll Compressor

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- Compatible with most heat pump thermostats and WiFi networks
- · Intuitive, future-proofed design

Standard Desuperheater with Internal Pump

Copper or Optional Cupronickel Heat Exchanger

Double O-Ring Water Fittings

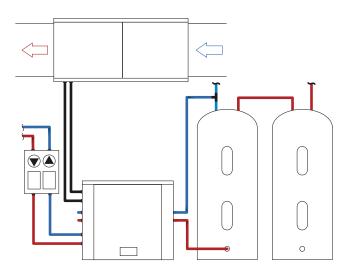
WARRANTY

Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor extended warranty, years 11 to 18



Other Optional Warranties available
See page 28 for more Warranty details





WV | VARIABLE SPEED Water-to-Water Unit

One system that does it all!

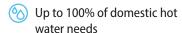


Register for the webinar on March 20



Radiant in-floor heat









UNIT FEATURES

1 Size: 060

Copeland Variable Speed Compressor

Double O-Ring Connections (comes with fittings)

Variable Speed Capacity Modulation

High Temperature Output to 135°F **Leaving Load Temp**

100% Domestic Water Heating Capability

On-board Controls for Outdoor **Temperature Reset**

Built-In LCD Display

Brazed Plate Heat Exchanger Technology

Variable Speed Internal Load and External Source Pumps

Electric & Boiler Backup Option

Multiple Indirect Hot Water Heater Options: 50 Gallon, 80 Gallon, 120 Gallon

Pressurized and non-pressurized source pumping options: Single pump and dual pumps

Dual fuel operation in tandem with modulating boilers

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- · Compatible with most heat pump thermostats and WiFi networks
- · Make settings changes remotely

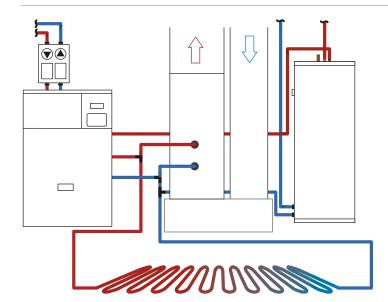
WARRANTY

Standard 10-5 Year Warranty

· Tank excluded and manufacturer's warranty applies

Other Optional Warranties available

See page 28 for more Warranty details





WT | 2-STAGE Water-to-Water Unit

A great system for radiant in-floor heating needs.

Radiant in-floor heating

Domestic hot water assist

Pool heating

Forced air heating and cooling



UNIT FEATURES

3 Sizes: 036, 048, 060

Advanced Elastomeric compressor isolation mounting suspension

Digital controls with fault retry, service fault LED's and remote fault indication

Standard Copper or optional Cupronickel heat exchanger [source side] / Copper [load side]

High efficiency Copeland scroll compressor

Rugged steel cabinet Optional Hot Water Generator Double O-ring connections (source side) 1" FPT connections (load side)

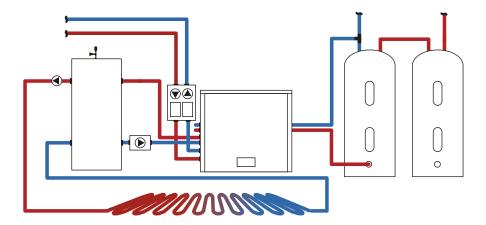
WARRANTY

Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor extended warranty, years 11 to 18



Other Optional Warranties available See page 28 for more Warranty details





WS | SINGLE-STAGE AND DUAL COMPRESSOR Water-to-Water Unit

A lighter and more efficient water-to-water heat pump.



Radiant in-floor heating



Domestic hot water assist



Pool heating



Forced air heating and cooling



UNIT FEATURES

5 Sizes: 036, 048, 060, 072, 084

Copeland Single Stage Scroll Compressors

1-1/4" load side connections

1-1/4" source side connections (brazed plate for closed loop applications) or secondary heat exchanger available for open loop systems

Front, Top & Rear Access

Electronic Controls with Safety Lock Out

High and Low Access Valves Ports

Thermostatic Expansion Valve (TXV) for 3-5 ton, Electronic Expansion Valve (EXV) for 6-7 ton.

Stainless Brazed Plate Heat Exchangers (BPHE)

Standard Desuperheater with Internal Pump

Internal Flow Switch

Optional factory installed soft-start available.

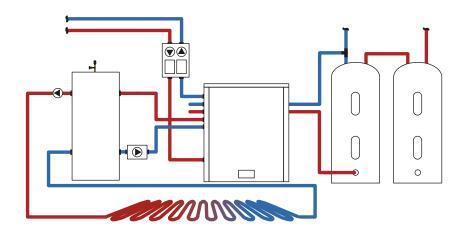
WARRANTY

Standard 10-5 Year Warranty

Optional Option 18 Limited Compressor extended warranty, years 11 to 18



Other Optional Warranties available See page 28 for more Warranty details







ADVANTAGE | VARIABLE SPEED Air-to-Water Unit

A turnkey all in one solution.

- Forced air heating and cooling
- Radiant in-floor comfort
- Up to 100% of domestic hot water needs
- **EPIC** connected controls

UNIT FEATURES

EAV - 2 Sizes: 030, 060

Monobloc design - compact, preassembled system with zero refrigerant lines outside of the system.

Outdoor Unit (AV)

Variable-Speed Internal Circulating Pump

ECM Fan

Refrigerant Heated Condensate Pan

Inverter-Driven Technology and Vapor Injection, Variable-Speed Compressor

Temperature Sensors and Pressure Transducers

Indoor Unit (EM)

Large LCD Control Screen

Electric Backup and Auxiliary Heat

Internal Bypass Valve

Pre-Installed Internal Expansion Tank

Included Internal Flush Blocks

Vortex Flow Sensor

Dual fuel operation in tandem with modulating boilers

Seamless Connectivity with EPIC connected controls

- · Energy monitoring
- Compatible with most heat pump thermostats and WiFi networks
- · Intuitive, future-proofed design

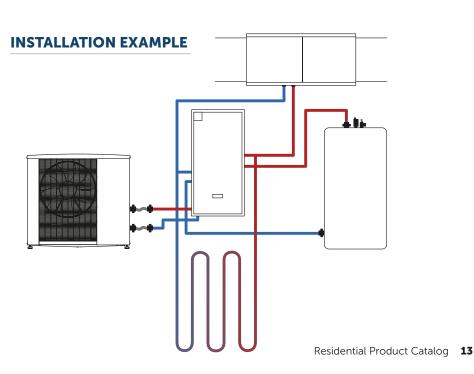
Multiple Indirect Hot Water Heater Options: 50 Gallon, 80 Gallon, 120 Gallon

WARRANTY

The standard warranty includes three years for all parts with seven years for the compressor, and a 90 day out-of-the-box assurance.



See page 28 for more Warranty details



HYDRONIC SERIES

Multi-Position Air Handler



UNIT FEATURES

4 sizes: 2 (024), 3 (036), 4 (048), and 5 (060)

Multi-Positional Applications (upflow, downflow, horizontal)

Variable Speed ECM Fan Motor

Factory installed 75VA Transformer with Circuit Breaker

Single-point Electrical Connection for **Auxiliary Heat**

"Easy glide" slide out "A" Coil assembly for downflow applications

Easy to remove access panels

Easy to remove thermostat and control board "Snap Lock" mount

Galvanized, pre-painted steel for quality and durability

Corrosion proof plastic drain pan with primary and secondary connections

"Easy glide" slide out blower assembly

Closed cell insulated cabinet

2 piece cabinet - cased coil and blower

Modular Design allows flexibility when installing in tight spaces, which removes the need for home or building structure modifications

Optional "Plug-N-Play" Field Installed Electric Heater

Optional Filter Rack

Single coil for both chilled water and hot water

Designed for 100°F to 120°F water in heating operation & 42°F to 50°F water in cooling operation

Optimized for use with Enertech geothermal branded water-to-water and air-to-water heat pumps

Copper sweat water connections

3 Year Parts Only Warranty and 90 Day Out-of-Box Assurance

Consult price book for additional warranty coverage details

HYDRONIC SERIES Cased "A" Coil



UNIT FEATURES

4 sizes: 2 (024), 3 (036), 4 (048), and 5 (060)

Multi-Positional Applications

Galvanized, pre-painted steel for quality and durability

Corrosion proof plastic drain pan with primary and secondary connections

"Easy glide" slide out coil assembly

Closed cell insulated cabinet

Designed for 100°F to 120°F water in heating operation & 42°F to 50°F water in cooling operation

Single coil for both chilled water and hot water

Optimized for use with Enertech geothermal brand water-to-water and airto-water heat pumps

Corrosion-proof plastic drain pan with primary and secondary drain connections

Copper sweat water connections

3 Year Parts Only Warranty and 90 Day Out-of-Box Assurance

Consult price book for additional warranty coverage details

ENERTECH DX SERIES

R-454B, Multi-Position Air Handlers



UNIT FEATURES

AHRI match with Enertech Split Systems

6 sizes: 1.5 (018), 2 (024), 3 (036), 4 (048), 5 (060), and 6 (072) ton

Multi-Positional Applications (upflow, downflow, horizontal)

Variable Speed ECM Fan Motor

Factory Installed TXV (for cooling)

Factory installed 75VA Transformer with Circuit Breaker

Single-point Electrical Connection for **Auxiliary Heat**

All-Aluminum Micro-channel Air Coil

Modular Design allows flexibility when installing in tight spaces, which removes the need for home or building structure modifications

"Easy glide" slide out "A" Coil assembly for downflow applications

Easy to remove access panels

Easy to remove thermostat and control board "Snap Lock" mount

Galvanized, pre-painted steel for quality and durability

Corrosion proof plastic drain pan with primary and secondary connections

"Easy glide" slide out blower assembly

Closed cell insulated cabinet

2 piece cabinet - cased coil and blower

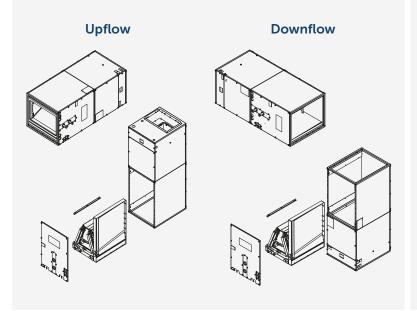
Optional "Plug-N-Play" Field Installed Electric Heater

Optional Filter Rack

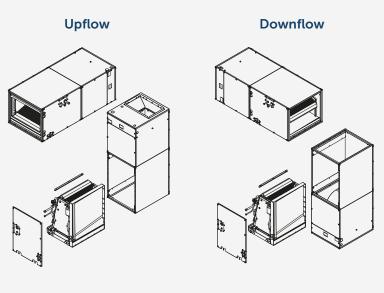
5 Year Parts and 5 Year Service Labor Allowance warranty

Optional extended warranty options available

HYDRONIC ASSEMBLY CONFIGURATIONS



DX ASSEMBLY CONFIGURATIONS



FLOW CENTERS, INSULATED PUMPS & REPLACEMENT PUMPS

Pressurized Pumping

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









HOSE KITS & LOOP ADD-ONS

GeoPrime reservoir tanks Geo Booster Pressure batteries









THERMOSTATS



Sensi Touch Wi-Fi

HD color touchscreen
Can change temperature
setting based on GPS location
Smart home compatible
Easy-click, no screwdriver
terminals

4 Heat / 2 Cool stages



Sensi Wi-Fi

Extreme temperature notification
7 day programmable

Remote access and contractor contact info with mobile app

4 Heat / 2 Cool stages

Multi thermostat control



Touch Screen

Single-stage / multi-stage
Programmable (7-day, 5/1/1
day) or non-programmable
Remote sensing indoor or
outdoor and at the thermostat
Programmable fan with
comfort circulator fan option



Non-Programmable

Large easy to read screen with a bright backlit display Adjustable temperature set point min. /max. limits

Dual-fuel control

4 Heat / 2 Cool stages

LOOP PIPE



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

FITTINGS



Headers **Elbows** Unions Couplings Tees **Bushings**

MRPEX RADIANT TUBING

PEX-a Tubing with Oxygen Barrier

Cross-Linked Polyethylene

Noise reduction barrier on sizes up to 3/4"

Bending Radius of 4 times O.D.

30 Year



1 1/4" and 1 1/2" options

Comes pre-mounted on brakcets

Manual Air vents and fill drain valves

Includes full port ball valves with thermometers

Fittings

Connect PEX tubing to manifolds

Transition fittings for EK connection

Consist of nut, insert, and nickel plated brass compression ring









Actuators

2-12 Loops

4-wire w/ End Switch

2-Wire

4-wire auto balancing option





Other Items



Thermostats



Expansion Tools



Tubing Uncoiler



Bend Supports



Aluminun Plates

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





SBD [Smart-Bypass-Damper]

No Measuring instruments or weights Self balancing in all operation modes LED indicators for setup response Single push button setup



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



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



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





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 read out

Supply air sensor to protect equipment

Adjustable purge time



AUXILIARY HEATERS

Internal Auxiliary Electric Heater

Single piece design (no separately mounted control box) Heater staging (YT, XT & CT Series)

Low voltage harness for direct connection to relay board Automatic high limit and auxiliary limit switches for over temperature protection

Internal circuit breakers



Close Coupled Duct Heater Features:

Single piece design (no separately mounted control box) Heater staging (VS/VT & ZS/ZT Series)

Low voltage harness for direct connection to relay board Internal circuit breakers

Automatic high limit and auxiliary limit switches for over temperature protection

Downstream installation not required like external duct heater.

Easy installation



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)



		Cooling		Heating		Cooling		Heating v		Dim	ensional I	Data	Heigh	nt with	Uni
Model	Type	PSC Blov BTU	ver EER	PSC Blog	COP	ECM Blower BTU	Option	ECM Blower BTU	COP	Height	Width	Depth		ol Box	Weig (lbs
	Ground Water	7,600	25.9	6,500	4.4	-	-	-	-						
/S006	Ground Loop	7,000	18.6	4,900	3.4	-	-	-	-	30″	21.5"	21.5"	-	-	167
/S009	Ground Water	11,900	22.1	10,600	4.4	-	_	-	_	30″	21.5"	21.5"			234
3003	Ground Loop	10,900	17.4	8,500	3.6	-	-	-	-	30	21.5	21.5			25-
/S012	Ground Water	13,400	24.1	12,100	4.3	-	-	-		30"	21.5"	21.5"		_	234
	Ground Loop	11,900	18.1	9,400	3.6	_	-	_							
S015	Ground Water	-		-	-	17,400	31.6	14,400	5.4	37.3"	22.5"	22.5"		_	23
	Ground Loop	-	_	-	-	16,000	22.3	11,500	4.3						
S018	Ground Water Ground Loop	=		-		23,200 21,700	30.5	19,600 15,400	5.3	37.3"	22.5"	22.5"	-	-	26
							22.2	15,400	4.0						
	wo-Stage Con	npact Verti	cal Pac	kaged — W	ater-to	-Air									
lodel	Туре		Coolir	ng BTU			Heatin	g BTU		Dim	ensional I	Data		nt with	Un Weig
ouet	Турс	Full Load	EER	Part Load	EER	Full Load	СОР	Part Load	СОР	Height	Width	Depth	Contr	ol Box	(lb:
T00:	Ground Water	27,600	23.8	19,900	28.4	23,900	4.6	16,800	4.4						
T024	Ground Loop	25,800	18.6	19,300	24.2	19,400	4.0	14,800	3.8	37.3″	22.5"	22.5"	-	-	24
TOZO	Ground Water	34,100	23.1	26,500	30.4	30,300	4.6	22,100	4.7	777"	22 5"	22.5			20
Т030	Ground Loop	32,200	18.4	25,500	25.8	24,300	3.8	20,000	4.2	37.3″	22.5"	22.5		-	26
T036	Ground Water	40,000	22.8	29,500	29.8	36,900	4.6	25,700	4.7	37.3"	22.5"	22.5"		_	27
. 030	Ground Loop	37,400	17.7	28,500	25.2	29,500	3.9	22,900	4.2	37.3	۷۷.۵	22.3			
T042	Ground Water	49,200	24	36,500	31.4	40,100	4.6	28,800	4.7	41.0"	22.5"	27.9"		_	35
	Ground Loop	45,900	18.5	35,100	26	32,400	3.9	25,500	4.2	11.0	22.3	27.3			J.
T048	Ground Water	53,600	24.5	39,100	32.6	48,500	4.9	34,800	5.3	41.0"	25.0"	27.9"		_	36
	Ground Loop	50,300	18.8	37,400	26.6	38,500	4.0	30,800	4.6	1					
T060	Ground Water	65,800	21.7	48,300	28.1	61,300	4.6	43,500	4.8	41.0"	25.0"	27.9"	_	_	37
	Ground Loop	61,800	17.2	46,600	23.6	48,500	3.8	38,600	4.2						- 07
T072	Ground Water	72,800	19.7	56,900	24.5	64,700	4.1	49,600	4.3	41.0"	25.0"	27.9"	-	_	37
	Ground Loop	68,900	15.8	55,300	21.1	51,800	3.4	44,000	3.9						
— V	ertical Packag	jed — Wate	r-to-Ai	r											
	_									D:		Data			
lodel	Type		Coolir	ng BTU			Heatin	g BTU		Dim	ensional I	Data		nt with	
lodel	Type	Full Load	Coolir	g BTU Part Load	EER	Full Load	Heatin	g BTU Part Load	СОР	Height	Width	Depth		nt with ol Box	Wei
	Ground Water	Full Load 29,200			EER 33.6	Full Load 23,400			COP 5.5	Height	Width	Depth	Contr	ol Box	Weight (lb)
			EER	Part Load			СОР	Part Load				1	Contr		Wei (lb
T024	Ground Water	29,200	EER 25.7	Part Load 22,200	33.6	23,400	COP 5.3	Part Load 17,500	5.5	Height 46.0"	Width 23.0"	Depth 26.5"	Contr 53.	ol Box .25"	Wei (lb
T024	Ground Water Ground Loop	29,200 27,100	EER 25.7 19.9	Part Load 22,200 21,400	33.6 28.2	23,400 19,000	5.3 4.3	Part Load 17,500 15,200	5.5 4.8	Height	Width	Depth	Contr 53.	ol Box	Wei (lb
T024 T036	Ground Water Ground Loop Ground Water	29,200 27,100 42,300	25.7 19.9 27.9	Part Load 22,200 21,400 31,400	33.6 28.2 35.1	23,400 19,000 35,500	5.3 4.3 5.4	Part Load 17,500 15,200 25,800	5.5 4.8 5.5	Height 46.0"	Width 23.0" 25.4"	Depth 26.5" 30.5"	53. 61.	25"	Wei (lb 31 40
T024 T036	Ground Water Ground Loop Ground Water Ground Loop	29,200 27,100 42,300 39,700	25.7 19.9 27.9 21.0	Part Load 22,200 21,400 31,400 30,400	33.6 28.2 35.1 29.5	23,400 19,000 35,500 27,900	5.3 4.3 5.4 4.3	Part Load 17,500 15,200 25,800 23,000	5.5 4.8 5.5 4.9	Height 46.0"	Width 23.0"	Depth 26.5"	53. 61.	ol Box .25"	Wei (lb 31 40
T024 T036 T048	Ground Water Ground Loop Ground Water Ground Loop Ground Water	29,200 27,100 42,300 39,700 55,200	25.7 19.9 27.9 21.0 24.9	Part Load 22,200 21,400 31,400 30,400 40,700	33.6 28.2 35.1 29.5 32.6	23,400 19,000 35,500 27,900 46,500	5.3 4.3 5.4 4.3 5.0 4.1 4.8	Part Load 17,500 15,200 25,800 23,000 32,700	5.5 4.8 5.5 4.9 5.3 4.6 5.1	Height 46.0" 54.0"	Width 23.0" 25.4" 25.4"	Depth 26.5" 30.5"	53. 61.	25" 25" 25"	Wei (lb) 311 400 45
T024 T036 T048	Ground Water Ground Loop Ground Water Ground Loop Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5	Height 46.0"	Width 23.0" 25.4"	Depth 26.5" 30.5"	53. 61.	25"	Wei (lb) 311 400 45
T024 T036 T048	Ground Water Ground Loop Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9	Height 46.0" 54.0" 54.0" 58.4"	Width 23.0" 25.4" 25.4"	Depth 26.5" 30.5" 30.5"	53. 61. 65.	25" 25" 25"	Wei (lb 31 40 45 47
T024 T036 T048	Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5	Height 46.0" 54.0"	Width 23.0" 25.4" 25.4"	Depth 26.5" 30.5"	53. 61. 65.	25" 25" 25"	Wei (lb) 31 40 45
T024 T036 T048 T060 T072	Ground Water Ground Loop Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9	Height 46.0" 54.0" 54.0" 58.4"	Width 23.0" 25.4" 25.4"	Depth 26.5" 30.5" 30.5"	53. 61. 65.	25" 25" 25"	Weir (lb) 31 40 45
T024 T036 T048 T060 T072	Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9	Height 46.0" 54.0" 54.0" 58.4"	Width 23.0" 25.4" 25.4"	Depth 26.5" 30.5" 30.5" 30.5" 30.5"	53. 61. 61. 65.	25" 25" 25"	Weir (lb) 31 40 45 47 48
T024 T036 T048 T060 T072	Ground Water Ground Loop Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 er-to-Air	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9	Height 46.0" 54.0" 54.0" 58.4"	23.0° 25.4° 25.4° 25.4° 25.4°	Depth 26.5" 30.5" 30.5" 30.5" 30.5"	53. 61. 61. 65.	25° 25° 25° 665°	Wei (lb 31 40 45 47 48 Ur Wei
T024 T036 T048 T060 T072 — Si	Ground Water Ground Loop Type Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 — Wate Coolin EER 29.8	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 er-to-Air pg BTU Part Load	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4	Height 46.0" 54.0" 54.0" 58.4" Dim	23.0° 25.4° 25.4° 25.4° 25.4°	26.5° 30.5° 30.5° 30.5°	53. 61. 65. Ref. (25" 25" 25" 265" 665"	Wei (lb
T024 T036 T048 T048 T07060 T072 — Si oodel	Ground Water Ground Loop Type Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 Wate Coolin EER 29.8 21.1	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 ar-to-Air part Load — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4	Height 46.0° 54.0° 54.0° 58.4° Dim Height	23.0° 25.4° 25.4° 25.4° 25.4° Width	Depth 26.5" 30.5" 30.5" 30.5" Data Depth	53. 61. 61. 65. Ref. (25° 25° 25° 65° 65° Conn. Suct.	Wei (lb
T024 T036 T048 T060 T072 — Si	Ground Water Ground Loop Type Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 Wate Coolin EER 29.8 21.1	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 ar-to-Air part Load — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4	Height 46.0° 54.0° 54.0° 58.4° Dim Height	23.0° 25.4° 25.4° 25.4° 25.4° Width	Depth 26.5" 30.5" 30.5" 30.5" Data Depth	53. 61. 61. 65. Ref. (25° 25° 25° 65° 65° Conn. Suct.	Weig (lb 31 40 45 47 48 Un Weig (lb (lb)
T024 T036 T048 T060 T072 — Si	Ground Water Ground Loop Type Ground Water Ground Water Ground Water Ground Water Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water EER 29.8 21.1 Water-	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 ar-to-Air part Load — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4	Height 46.0° 54.0° 54.0° 58.4° Dim Height 21°	23.0° 25.4° 25.4° 25.4° 25.4° Width	Depth 26.5" 30.5" 30.5" 30.5" Data Depth 26"	53. 61. 61. 65. Ref. (Liq. 3/8"	25° 25° 25° 65° 65° Conn. Suct.	Wei (lb) 311 400 455 477 488 Urr Wei (lb) 199
T024 T036 T048 T060 T072 — Si odel S018	Ground Water Ground Loop Type Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water EER 29.8 21.1 Water-	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 er-to-Air part Load	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4	Height 46.0° 54.0° 54.0° 58.4° Dim Height 21°	23.0" 25.4" 25.4" 25.4" Width 26"	Depth 26.5" 30.5" 30.5" 30.5" Data Depth 26"	53. 61. 61. 65. Ref. (Liq. 3/8"	25° 25° 25° 665° 65° Conn. Suct. 5/8°	Wei (lb) 31 40 45 47 48 Urr Wei (lb) 19
T024 T036 T048 T060 T072 — Si lodel S018	Ground Water Ground Loop Type Ground Water Ground Loop Wo-Stage Indo Type Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 por Split — Full Load 27,800	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER EER 33.3	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900	5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 4.7	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP COP 4.7	Height 46.0" 54.0" 54.0" 58.4" Dim Height 21"	23.0" 25.4" 25.4" 25.4" 25.4" Width 26"	Depth 26.5" 30.5" 30.5" 30.5" Data Depth 26"	53. 61. 61. 65. Ref. (Liq. 3/8"	25° 25° 25° 25° 665° 65° Conn. Suct. 5/8°	Weie (lb) Weie (lb) Weie (lb)
T024 T036 T048 T060 T072 — Si lodel S018	Ground Water Ground Loop Type Ground Water Ground Loop Wo-Stage Indo Type Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 cor Split — Full Load 27,800 26,300	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5 19.5	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP COP 4.7 4.3	Height 46.0° 54.0° 54.0° 58.4° 58.4° Dim Height 21°	### Width 23.0° 25.4° 25.4° 25.4° 25.4° ### Width 26° ### Width #### Width #### Width #### Width #### #### #### #### ##### ##########	Depth 26.5° 30.5° 30.5° 30.5°	53. 61. 61. 65. Ref. 6 Liq. 3/8"	25° 25° 25° 25° 665° 65° Conn. Suct. 5/8°	Wei
T024 T036 T048 T060 T072 — Si iodel S018 — To	Ground Water Ground Loop Moestage Index Type Ground Water Ground Loop Type Ground Water Ground Loop Type Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 cor Split — Full Load 27,800 26,300 39,700	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5 19.5 24.8	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 ar-to-Air ag BTU Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER EER 33.3 27.8 35	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800 36,700	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9 Heatin COP 4.7 3.9 4.7	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP	Height 46.0° 54.0° 54.0° 58.4° 58.4° Dim Height 21°	### Width 23.0° 25.4° 25.4° 25.4° 25.4° ### Width 26° ### Width #### Width #### Width #### Width #### #### #### #### ##### ##########	Depth 26.5° 30.5° 30.5° 30.5°	53. 61. 61. 65. Ref. 6 Liq. 3/8"	25° 25° 25° 25° 665° 65° Conn. Suct. 5/8°	Wei
TT024 TT036 TT048 TT060 TT072 — Si Tt048 TT060 TT072 — Si Tt048 TT072 TT072 TT072 TT072	Ground Water Ground Loop Type Ground Water Ground Loop Wo-Stage Indo Type Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 cor Split — Full Load 27,800 26,300	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5 19.5	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP COP 4.7 4.3	Height 46.0° 54.0° 54.0° 58.4° Dim Height 21° Height 21°	23.0° 25.4° 25.4° 25.4° 25.4° 25.4° width 26° width 26° 26°	Depth 26.5" 30.5" 30.5" 30.5" Data Depth 26" Depth 26"	Contr 53. 61. 61. 65. Ref. (Liq. 3/8" Ref. (3/8"	25° 25° 25° 25° 65° 65° Conn. Suct. 5/8° 5/8°	Wei (lb
T024 T036 T048 T060 T072 — Si dodel T072 T036	Ground Water Ground Loop Type Ground Water Ground Loop Ground Water Ground Loop Type Ground Water Ground Loop Ground Water Ground Water Ground Loop Ground Water Ground Loop Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 cor Split — Full Load 27,800 26,300 39,700 36,900	25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 — Water Coolin EER 29.8 21.1 Water- Coolin EER 24.8 19.2	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 21,500 21,500 30,600 29,300	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER 33.3 27.8 35 28.9	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800 36,700 27,800	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9 Heatin COP 4.7 3.9 4.7 3.8	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP	Height 46.0" 54.0" 54.0" 58.4" Dim Height 21"	23.0" 25.4" 25.4" 25.4" 25.4" Width 26"	Depth 26.5" 30.5" 30.5" 30.5"	Contr 53. 61. 61. 65. Ref. (Liq. 3/8"	25° 25° 25° 25° 665° 65° 65° Conn. Suct. 5/8°	Weie (lb Ur Weie (lb 19
Model	Ground Water Ground Loop Type Ground Water Ground Loop Wo-Stage Indo Type Ground Water Ground Loop Ground Water	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 20,800 26,300 39,700 36,900 51,500 47,800 65,700	EER 25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 - Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5 19.5 24.8 19.2 22.5 17.3 22.8	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 47,700 57,800 55,900 2r-to-Air ag BTU Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800 36,700 27,800 51,300 41,000 58,300	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 4.7 3.9 4.7 3.8 4.5 3.6 4.3	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP 	Height 46.0° 54.0° 54.0° 58.4° Dim Height 21° Height 21°	23.0° 25.4° 25.4° 25.4° 25.4° 25.4° width 26° width 26° 26°	Depth 26.5" 30.5" 30.5" 30.5" Data Depth 26" Depth 26"	Contr 53. 61. 61. 65. Ref. (Liq. 3/8" Ref. (3/8"	25° 25° 25° 25° 65° 65° Conn. Suct. 5/8° 5/8°	Un Weig (lb) 40 45 47 48 Un Weig (lb) 19 20 22 22
T024 T036 T048 T060 T072 — Si lodel S018 - T0 lodel T024 T036 T048	Ground Water Ground Loop Type Ground Water Ground Loop Ground Water Ground Loop Ground Water Ground Loop Type Ground Water Ground Loop	29,200 27,100 42,300 39,700 55,200 51,900 66,900 63,100 75,400 70,300 door Split Full Load 23,700 21,800 20,300 39,700 36,900 51,500 47,800	EER 25.7 19.9 27.9 21.0 24.9 19.2 23.8 18.7 21.7 17.1 — Water Coolin EER 29.8 21.1 Water- Coolin EER 24.5 19.5 24.8 19.2 22.5 17.3	Part Load 22,200 21,400 31,400 30,400 40,700 39,100 49,400 47,700 57,800 55,900 2r-to-Air ag BTU Part Load — — — — — — — — — — — — — — — — — —	33.6 28.2 35.1 29.5 32.6 26.6 31.9 26.4 28.0 23.9 EER 8 EER 33.3 27.8 35 28.9 29.2 24.3	23,400 19,000 35,500 27,900 46,500 36,700 60,700 49,100 70,400 57,800 Full Load 18,500 14,400 Full Load 23,900 18,800 36,700 27,800 51,300 41,000	COP 5.3 4.3 5.4 4.3 5.0 4.1 4.8 4.0 4.5 3.8 Heatin COP 5.0 3.9 Heatin COP 4.7 3.9 4.7 3.8 4.5 3.6	Part Load 17,500 15,200 25,800 23,000 32,700 29,000 42,800 38,300 51,800 46,600 Part Load g BTU Part Load 17,900 15,400 25,800 22,600 35,800 31,100	5.5 4.8 5.5 4.9 5.3 4.6 5.1 4.5 4.9 4.4 COP	Height 46.0° 54.0° 54.0° 58.4° 58.4° Dim Height 21° 21° 21°	Width 23.0° 25.4°	Depth 26.5° 30.5° 30.5° 30.5° Data Depth 26° 26° 26°	Contr 53. 61. 65. 65. Ref. 6 Liq. 3/8" Ref. 3/8" 3/8"	25° 25° 25° 25° 365° 365° 366° 366° 366° 378° 374°	Wei (lb

Model	Туре	Cooling with PSC Blower		Heating PSC Blo		Cooling ECM Blower		Heating ECM Blower		Dim	ensional I	Data		Unit Weight
		BTU	EER	BTU	СОР	BTU	EER	BTU	СОР	Height	Width	Depth		(lbs)
	Water Loop	6,000	14.1	7,900	5.4	-	-	-	-					
ZS006	Ground Water	6,900	22.9	6,300	4.3	-	-	-	-	12.0″	20.0"	40.0"	Add 2.4" to width w/ filter rack	140
	Ground Loop	6,300	16.6	4,700	3.3	-	-	-	-				.,	
	Water Loop	8,800	13.6	11,100	4.9	-	_	-	_					140
ZS009	Ground Water	9,800	20.9	9,000	4.2	-	_	-	_	12.0″	20.0"	40.0"	Add 2.4" to width w/ filter rack	
	Ground Loop	9,200	15.9	7,300	3.5	-	-	-	-				.,,	
	Water Loop	11,000	12.5	13,600	4.3	-	-	-	-					
ZS012	Ground Water	12,400	18.7	11,700	3.7	-	-	-	-	12.0"	20.0"	40.0"	Add 2.4" to width w/ filter rack	140
	Ground Loop	11,300	14.1	9,500	3.2	-	-	-	-				.,	
	Water Loop	=	-	-	-	13,500	14.7	17,800	5.7					
ZS015 COAX	Ground Water		-	-	-	15,600	24.9	14,300	4.8	17.0″	21.0"	40.0"	Add 2.4" to width w/ filter rack	173
	Ground Loop		-	-	-	14,200	17.6	11,200	3.9]			W, Mer reek	
	Water Loop	=-	-	-	-	15,900	14.2	19,400	4.9					
ZS017 COAX	Ground Water		-	-	-	18,000	21.9	15,800	4.1	17.0″	21.0"	40.0"	Add 2.4" to width w/ filter rack	173
	Ground Loop		-	-	-	16,600	16.3	12,500	3.4]			,	
	Water Loop	-	-	-	-	19,100	15.4	21,900	5.5					
ZS018 COAX	Ground Water	-	-	-	-	21,400	26	17,500	4.7	19.2"	21.7"	52"	Add 2.4" to width w/ filter rack	230
	Ground Loop		-	-	-	20,100	18.7	14,100	3.7				TT, INCOLUGE	

Model	Туре		Coolir	ng BTU			Heatin	ig BTU		Dim	ensional I	Data		Unit Weight
		Full Load	EER	Part Load	EER	Full Load	СОР	Part Load	СОР	Height	Width	Depth		(lbs)
	Water Loop	25,300	15.9	18,200	17.4	28,800	5.2	21,000	5.6					
ZT024 COAX	Ground Water	28,200	23.7	20,800	29.7	22,900	4.6	16,600	4.6	19.2"	21.7"	52"	Add 2.4" to width w/filter rack	236
	Ground Loop	26,400	18.3	20,000	25	18,300	3.9	14,500	4.1				Wy inter ruck	
	Water Loop	30,200	15.1	22,000	16.2	34,800	5.1	26,200	5.3					
ZT030 COAX	Ground Water	32,600	21.6	24,700	26.5	28,800	4.5	21,400	4.5	19.2"	21.7"	52"	Add 2.4" to width w/filter rack	245
	Ground Loop	31,500	17.5	23,900	22.7	23,300	3.7	19,300	4.0				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Water Loop	35,100	15.5	25,700	18	42,300	5.0	31,000	5.7					
ZT036 COAX	Ground Water	39,400	23.6	29,100	31.8	34,000	4.6	24,400	4.8	21.2"	21.7"	56"	Add 2.4" to width w/filter rack	263
	Ground Loop	36,700	17.9	28,100	26.6	27,100	3.8	22,000	4.3				Wyntter ruen	
	Water Loop	41,200	15.5	30,500	16.9	49,500	4.7	35,800	5.2				Add 2.4" to width w/filter rack	280
ZT042 COAX	Ground Water	46,000	23.4	34,800	30.5	40,100	4.4	28,900	4.6	21.2"	21.7"	56″		
••••	Ground Loop	43,000	18.0	33,500	25.3	32,900	3.6	26,400	4.1				W/ Intel Facili	
	Water Loop	46,500	15.1	34,600	16.6	55,300	4.8	40,400	5.5					
ZT048 COAX	Ground Water	52,200	22.1	39,600	29.4	45,900	4.4	32,800	4.6	21.2"	21.7"	56"	Add 2.4" to width w/filter rack	293
	Ground Loop	48,700	17.3	38,000	24.4	36,900	3.6	29,300	4.1				W/ Intel Total	
	Water Loop	55,100	14.6	42,000	16.5	70,700	4.7	50,900	5.4					
ZT060 COAX	Ground Water	62,000	21.2	47,300	27.9	58,500	4.2	41,300	4.5	21.2"	24"	61"	Add 2.4" to width w/filter rack	303
30 777	Ground Loop	59,000	16.9	45,800	23.7	46,800	3.6	36,400	4.0				W/IIICE TOCK	
	Water Loop	66,600	13.7	50,700	15.2	83,200	4.5	62,700	5.1					
ZT072 COAX	Ground Water	73,500	19.2	58,100	24.8	67,500	4.0	49,200	4.2	21.2"	24"	61"	Add 2.4" to width w/filter rack	312
	Ground Loop	69,500	15.6	56,000	21.3	55,500	3.4	44,400	3.8				W/ Intel Tuelt	

- 1. Rated in accordance with AHRI/ISO standard 13256-1, which includes pump penalties.
- 2. 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.
- 3. GLHP (Ground Loop Heat Pump) entering water temps are 32°F heating/77°F cooling for full load and 41°F heating/68°F cooling for part load. GLHP ratings based upon 15% methanol by weight.
- 4. GWHP (Ground Water Heat Pump) entering water temps are 50°F heating/59°F cooling for full and part load.
- *ZS015, 018, with coax & psc blower motor are not Energy Star qualified models.

- 5. WLHP (Water Loop Heat Pump) entering water temps are 68°F heating/86°F cooling for full and part load.
- 6. Not all units are rated for all standards.
- Models above 135,000 Btu/hr are outside of the scope of AHRI 13256-1 and the ENERGY STAR program.
- 9. For water fitting type/diameter, electrical data, extended data, and other product details, consult unit submittal data (commercial) or catalog (residential).

WV — Variable-Speed — Water-to-Water Cooling BTU **Heating BTU Dimensional Data** Unit Src. In Load In Model Туре Weight Src. Out Load Out (lbs) **Full Load** EER Part Load EER **Full Load** Part Load COP COP Height Width Depth WV060 41,100 20,900 53,900 29,100 Ground Loop 17.6 21.6 3.2 3.8 41.9 25 28.5 1" 1" 355 WT — Two-Stage — Water-to-Water **Cooling BTU Heating BTU Dimensional Data** Unit Src. In Load In Weight Model Type Src. Out Load Out (lbs) **Full Load** EER Part Load EER **Full Load** COP Part Load COP Height Width Depth Ground Water 42,200 20.4 30.900 23.7 48,000 4.1 32,500 3.8 WT036 23" 26" 32" 1 1/4" 1 1/4" 334 Ground Loop 40.200 15.4 30.200 19.8 38.100 3.3 27.700 3.2 52 700 38 500 244 61 100 42 42 600 Ground Water 21.2 40 WT048 1 1/4" 1 1/4 430 23' 23" 39" Ground Loop 49,500 16.3 37,500 20.6 49,000 3.5 37,600 3.5 Ground Water 62,700 20.4 47,700 23.6 67,000 3.9 49,300 3.7 23" WT060 23" 39" 1 1/4" 1 1/4" 430 Ground Loop 60.600 16.2 46,600 20.2 52,900 3.1 43,900 33 WS — Single-Stage — Water-to-Water Cooling BTU **Heating BTU Dimensional Data** Unit Src. In Load In Model Weight Type Src. Out Load Out Full Load Full Load FFR Part Load FFR COP Part Load COP Height Width Depth WS036 34 900 177 31 000 3 3 23" 1 1/4" 1 1/4" 259 Ground Loop 26" 32" WS048 Ground Loop 50.500 173 45.200 3.2 23' 26" 32" 1 1/4" 1 1/4" 277 WS060 Ground Loop 63.300 16.9 53.800 3.2 23" 26" 32" 1 1/4" 1 1/4" 277 WS072* Ground Loop 76,600 17.8 63,200 3.1 23" 26" 32" 1 1/4" 1 1/4" 327 WS084* 88,400 72,900 3.1 23" 26" 1 1/4" 1 1/4" 348 Ground Loop 32"

Notes:

- Rated in accordance with ISO Standard 13256-2, which includes pump penalties.
- $2. \quad \text{GLHP (Ground Loop Heat Pump) entering source temps are } 32^\circ \text{F heating/77}^\circ \text{F cooling for full}$ load and 41°F heating/68°F cooling for part load. Entering load temps are 104°F heating/53.6F cooling. GLHP ratings based upon 15% methanol by weight.
- GWHP (Ground Water Heat Pump) entering source temps are 50°F heating/59°F cooling for full and part load. Entering load temps are 104°F heating/53.6F cooling.
- 4. WLHP (Water Loop Heat Pump) entering water temps are 68°F heating/86°F cooling for full and part load. Entering load temps are 104°F heating/53.6F cooling.
- * Based upon R-410A refrigerant data. R-454B refrigerant data to be published soon.

- 5. Not all units are rated for all standards.
- 6. Models above 135,000 Btu/hr are outside of the scope of AHRI 13256-2 and the ENERGY STAR program
- For water fitting type/diameter, electrical data, extended data, and other product details, consult unit submittal data (commercial) or catalog (residential).

AV — Variable Speen — A	ir-to-Water				
Model	Full Load Heating Capacity (BTUH)	COP at 47°F	COP at 17°F	Full Load Cooling Capacity (BTUH)	IPLV
AV030	36,360	4.40	3.08	21,480	16.0
AV060	62,520	4.24	3.14	38,760	15.6

Heating capacities based upon 105°F LWT. Cooling capacities based on 95°F out air temperature and 44°F LWT. Ratings tested in accordance with AHRI 550/590.

		California En	ergy C	ommis	sion (CEC) Rating			
AV — Variable Sp	een — Air-to-Water							
Model	Cooling Capacity at 95°F (BTUH)	Cooling Capacity Tons at 95°F (BTUH)	EER	IPLV	Heat Capacity at 47°F (BTUH)	COP at 47°F	Heat Capacity at 17°F (BTUH)	COP at 17°F
AV030	21.360	1.78	7.70	16.0	36.960	3.8	28.320	2.8
					,		.,	

Heating capacities based on 120°F LWT. Cooling capacities based on 95°F out air temperature and 44°F LWT. Ratings tested in accordance with AHRI 550/590.

Model	Size (tons)		Dimensional Data Dimensions In Incl	hes	Return Ai	r Opening	Line	Sets	- Unit Weight (lbs)
Model	Size (toris)	Height	Width	Depth	Width	Depth	Liquid	Suction	Offic Weight (tbs)
EAD018	1.5	47.0	18.0	21.5	20.0	16.5	3/8	5/8	155
EAD024	2	47.0	18.0	21.5	20.0	16.5	3/8	5/8	155
EAD036, EAD048	3, 4	53.6	21.5	21.5	20.0	20.0	3/8	3/8	190
EAD060, EAD072	5, 6	53.6	25.0	21.5	20.0	20.0	3/8	7/8	210
dronic Series Multi-F	osition Air Handle	ers							
Watel	Circ (torse)		Dimensional Data Dimensions In Incl		Return Ai	r Opening	Water Con	nection Size	Hati Watala (IIa
Model	Size (tons)				Return Ai	r Opening Depth	Water Con	nection Size	- Unit Weight (lbs
Model EAH024	Size (tons)	All	Dimensions In Incl	hes					- Unit Weight (lbs
		All Height	Dimensions In Incl	nes Depth	Width	Depth	Liquid	Suction	

Model Size (tons) All Height Height EED018, EED024 1.5 - 2 25.4 EED036 3 30.4 EED048 4 30.4 EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils	Dimensional Data Dimensions In Inc Width 18.0 21.5 21.5	Depth 21.5 21.5 21.5	Return Air Width - - -	Depth	Line Liquid 3/8 3/8 3/8	Suction 5/8 3/8 3/4	Unit Weight (lbs) 80 95
Model Size (tons) All Height Height EED018, EED024 1.5 - 2 25.4 EED036 3 30.4 EED048 4 30.4 EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils Model Size (tons)	Width 18.0 21.5 21.5	Depth 21.5 21.5 21.5	Width - -	Depth -	Liquid 3/8 3/8	Suction 5/8 3/8	80
Model Size (tons) All Height Height EED018, EED024 1.5 - 2 25.4 EED036 3 30.4 EED048 4 30.4 EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils Model Size (tons)	Width 18.0 21.5 21.5	Depth 21.5 21.5 21.5	Width - -	Depth -	Liquid 3/8 3/8	Suction 5/8 3/8	80
Height	18.0 21.5 21.5	21.5 21.5 21.5	-	-	3/8	5/8	80
EED036 3 30.4 EED048 4 30.4 EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils Model Size (tons) All	21.5 21.5	21.5 21.5	-	-	3/8	3/8	95
EED048 4 30.4 EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils Model Size (tons) All	21.5	21.5					
EED060, EED072 5 - 6 30.4 Hydronic Series Cased "A" Coils Model Size (tons)			-	-	3/8	3/4	
Hydronic Series Cased "A" Coils Model Size (tons)	25.0					3/4	95
Model Size (tons)	25.0	21.5	-	-	3/8	7/8	100
Model Size (tons)							
	Dimensional Dat Dimensions In Ind		Return Air	r Opening	Water Con	nection Size	Unit Weight (lbs)
rieight	Width	Depth	Width	Depth	Liquid	Suction	Offic Weight (ibs)
EEH024 2 25.375	18.0	21.5	-	-	3/4" O.D	3/4" O.D	80
EEH036, EEH048 3, 4 30.375	21.5	21.5	-	-	1-1/8" O.D	1-1/8" O.D	95
EEH060 5 30.375		21.5	_	_	1-1/8" O.D	1-1/8" O.D	100



As a geothermal installer, you know the importance of selecting the right equipment to get the job done right. However, it doesn't have to be complicated. With GeoAnalyst, you will have access to the most comprehensive residential design and application software on the market making it easy to design, size, and present any job.

SIZE IT RIGHT, EVERY TIME

No other software has as many features as GeoAnalyst. With the full product line already loaded, you'll be able to design and size any job. Plus, our software utilizes pure IGSHPA algorithms, not manufacturer-adjusted loop sizing formulas. That means you're sizing the system right, every time.

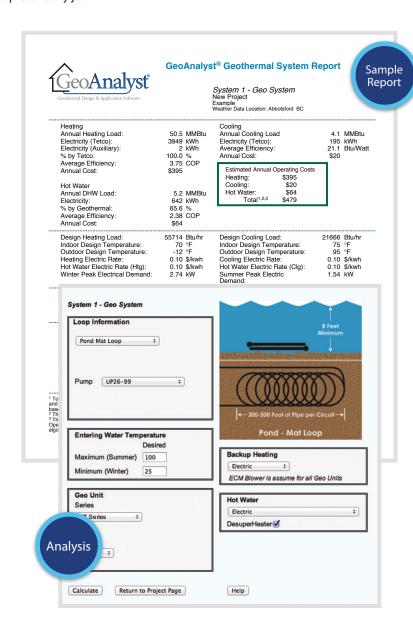
GROUND LOOP SIZING AND OPERATING COST ANALYSIS

GeoAnalyst ground loop sizing and operating cost analysis is very intuitive with drop-down menus, and pop-up windows. All pre-configured loops have a picture of the cut-away section to help the designer understand the correct inputs. The "Auto Size" option sizes loops based upon the minimum and maximum entering water temperature selected. The designer may also key in the loop length, and allow the software to calculate the minimum and maximum loop temperatures.

ACCESS ONLINE

The web-based GeoAnalyst combines all the great features you've come to expect with the flexibility of accessing the software from a computer or mobile device anywhere, whether in your office, home or on the jobsite!

With GeoAnalyst, you never have to worry about updates. It's up-to-date every time you log in. Whether it's changes to equipment, new features being added, or other exciting updates, it's all done without you having to even think about it. Plus geoanalyst.net offers unlimited users at no cost.



Visit **geoanalyst.net** to try the demo or to register - or call 618-664-9010 to learn more!



pricing, provides the customer with a quote in one visit, and increases profits by saving time, quoting efficiently, and closing more jobs.

LOAD ESTIMATOR

Streamline load estimation and bring your customer along for the ride. The load estimator tool gives you the ability to draw the home in real-time as you take your measurements on site. As you draw, simply select the insulation values and design criteria. EnerSketch Pro will produce accurate heating and cooling load calculations.

PROPOSAL GENERATION

Build a custom proposal for each individual job; No two offers are alike. With EnerSketch Pro, the proposal templates allow for deep customization, allowing you to edit details that match the desired description of work, stock equipment, accessory photos, and terms and conditions. With the ability to add a digital signature, you can leave the site with a signed contract, or give your customer the option to follow up with the signed proposal.

INTEGRATED GEOANALYST SOFTWARE

Let our lightning-fast version of GeoAnalyst do the grunt work to select the geothermal system and display alternatives for comparison. With a new interface, total user inputs are reduced and features a consumer-friendly design. Of course, you still have the option of displaying economic comparisons and bin data if you so choose.



For a free demo of EnerSketch Pro, contact your Territory Manager or visit enertechusa.com/enersketchpro.

Enertech Marketing

Good communication turns ordinary relationships into extraordinary ones. Our goal is to enhance your business by providing monthly newsletters for reminders and updates, video libraries on YouTube, and various email and social media communications. Our support site has everything you need to promote Enertech products through digital channels like social media, your website, and search, in your office, on your vehicles, and more.

SALES SUPPORT

We offer items that supplement and enhance your sales process, and we aim to deliver you leads so you can install more products with less time invested on the consumer education side. Here's how we accomplish this:

Literature

Product Brochures Guides and Whitepapers **Presentation Templates Tax Credit Certificates**













Lead Generation

Digital advertising campaigns at the local, state, and national level

Home Shows, Agricultural Fairs, and **Trade Shows**

Traditional advertising efforts at the local, state, and national level Dealer website program













ADVERTISING RESOURCES

The advertising resources we offer will set you apart from your competitors. With our branding and messaging along with yours, we've got a full toolkit to help you advertise in your local area. Here's an example of the materials we offer – free of charge:

Print Ads Digital Ads

Direct Mail **Installation Spotlights**

Radio Ads Apparel

Outdoor **Event Graphics**

GRAPHIC RESOURCES

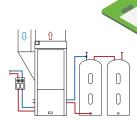
Got a project that's a bit more unique to your brand? You can pick and choose which of our graphic resources you want to use to complete the project. The following can be used on your website, company vehicles, etc.:

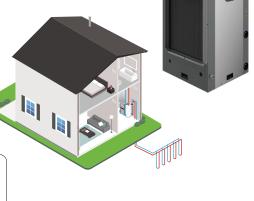
Product Photography

Logos

Icons

Illustrations







BRANDING SUPPORT

Talk to your Territory Manager about our Branding Support options. We'll help you cover advertising expenses whenever you feature our brand in a way that follows the guidelines.

The Best Geothermal Warranty Options!

The highest quality product should have a warranty that reflects confidence in its design and construction. Enertech strives to embody this principle in the way we stand behind our products. The standard residential warranty includes parts, including Internal plenum and close coupled auxiliary heaters, and labor coverage. That's peace of mind!

At Enertech, quality assurance is one of the quiding 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.

RESIDENTIAL GEOTHERMAL WARRANTY:

10-Year Warranty on All Unit Components*

(where applicable):

- Cabinet
- Compressor
- · Water-to-refrigerant heat exchanger

- · Air-to-refrigerant heat exchanger (not applicable on hydronic units)
- All internal refrigerant circuit parts
- All internal water circuit parts
- All internal controls/electrical parts
- Internal Electric Auxiliary Heaters

5-Year Labor Allowance** on the **Following Items:**

- All standard unit components
- Internal plenum and closed coupled auxiliary heaters

Additional geothermal Warranty Options

Option 18 Warranty:

Enertech offers the best geothermal warranty – pure and simple. To make Enertech's warranty offerings even better than its best, we offer the Option 18

Warranty, which covers a one-time



replacement for both the compressor or all-aluminum microchannel air coil (if applicable) to the original homeowners up to 18 years. This coverage ends 18 years from the installation date.

Warranty Reductions

We offer a range of warranty options

to better serve our contractors and consumers.

- 5 Year Parts & Labor Allowance
- 10 Year Parts Only

Warranty options may vary depending on product. Consult with our Customer Service team for pricing and complete warranty details.

- EAD/EED Air Handlers & Coils: 5 Year all unit parts, 5 Year select accessories EAH/EEH Air Handlers & Coils: 3 Year Parts Only Warranty and 90 Day Out-of-Box Assurance EAV Air to Water: 3 Year Parts, 7 Year Compressor
- ** Optional 5-year labor buyup, for years 6-10, available

RESIDENTIAL AIR-TO-WATER WARRANTY:

Our warranty is here to assist if the need arises. The standard warranty includes three years for all parts with seven years for the compressor, and a 90 day out-of-the-box assurance. Discuss warranty options with the

installer for a full explanation of coverage, please register the system, and confirm coverage online using the serial number within 60 days of installation.





enertechusa.com/enertech-university



Enertech University curriculum is developed from our history and reputation as a leader 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.

Enertech 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.

As further commitment to providing contractors with more tools to grow their business, Enertech University also offers solar PV training, supported by the solar brands we distribute. These trainings include design, sales, and installation of systems.

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

AVAILABLE COURSES INCLUDE:

Product Installation

Fusion Training

Basic Geothermal Troubleshooting

Advanced Geothermal Troubleshooting

Ground Loop & Flow Center Application & Installation

Geothermal Hydronic Systems

Variable Speed Hydronic Systems

Design, Sizing & Software

Sales & Marketing

Product Introduction/Update

IGSHPA/NATE Certified Installer Workshop

Solar PV Design, Sales, and Installation

Air-to-Water Video Training Modules

Training Provider



Our Guarantee

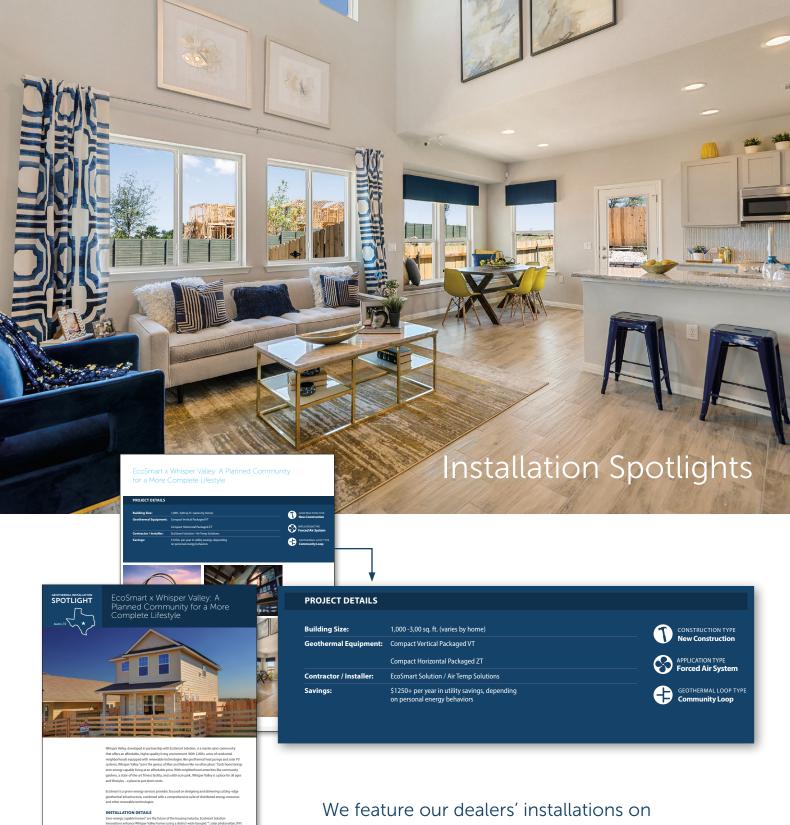


We guarantee 100% student satisfaction for every course led by an Enertech trainer.

Online Resources



Enertech University has a growing library of videos and workbooks that can be found online. They're great for geothermal installers who are eager to stay ahead of the curve!



our website as Installation Spotlights. This provides free advertising for dealers, and it's collateral to use in the sales process.

Geothermal 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.

The loop system is the heart of geothermal technology. There are four different types of loops.

Installing a geothermal loop system is like getting up to a 70% discount on energy for the life of the 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 of 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 trenchers, backhoes and track hoes to dig trenches approximately 6 to 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 1/2 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





enertechusa.com

COMMERCIAL SERIES

ASK ABOUT OUR COMMERCIAL SERIES

Industrial, institutional and commercial buildings often have unique heating and cooling needs. Enertech has a complete line of commercial models to fit most any project. Visit **enertechusa.com** to learn more!



















Every Enertech geothermal heat pump is handcrafted with pride by our dedicated employees in Mitchell, SD and Greenville, IL.

Enertech Global is continually working to improve its products. As a result, the design, specifications, and general information of each product may change without notice and may not be as described herein. For the most up-to-date information, please visit our website, or contact our Customer Relations department at customerrelations@enertechusa.com. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely Enertech Global's opinion or commendation of its products.