



TRANQUILITY[®] 30 DIGITAL SERIES



NATURALLY CONTROL CLIMATE AND COST

Wherever you live, the temperature beneath your home remains constant regardless of the season. ClimateMaster Geothermal Heat Pump Systems harness the stable underground temperature to provide heating, cooling, and hot water at remarkably high efficiencies. As the world's largest and most progressive leader in clean, renewable geothermal technology, ClimateMaster leads the way with its award-winning Tranquility® Series geothermal heat pumps.



The Tranquility® 30 Digital
The unit can be placed in a utility closet (as shown), garage,
basement or attic.

HARNESS CLEAN, RENEWABLE ENERGY STORED IN THE EARTH

Nearly half the solar energy our planet receives is absorbed by the ground.

As a result, below the surface the earth remains a constant moderate temperature year-round. This provides an ideal source for heating and cooling your home. Geothermal systems use a sealed underground loop piping filled with circulating water and an ultra high-efficiency Tranquility® heat pump to exchange heat between your home and the earth.

In the winter, the earth is your source of heat.

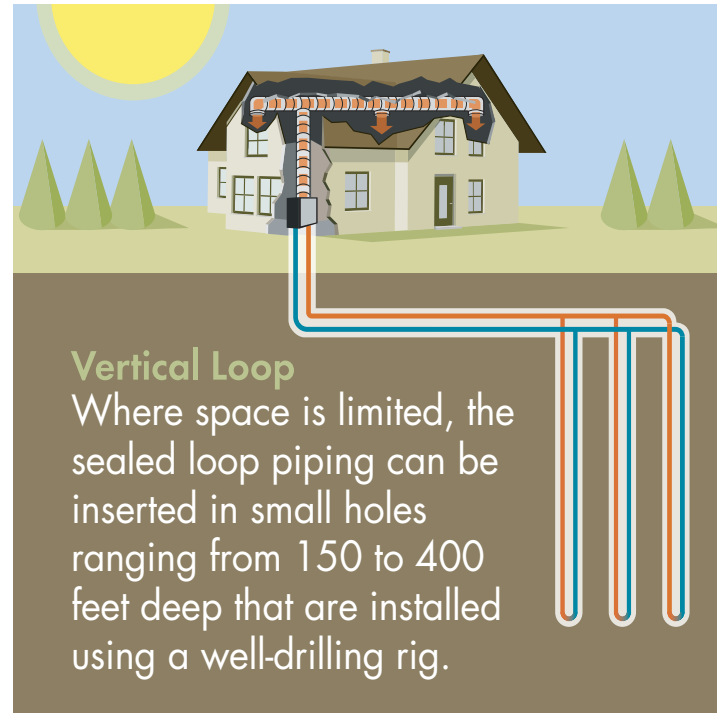
Water circulating in the loop piping absorbs heat from the earth and carries it to the heat pump, where it is concentrated and sent as warm, comfortable air throughout your home.

In the summer, the earth is your source of cooling.

The heat pump absorbs heat from the air in your home and transfers it to water circulating in the loop piping where it is absorbed by the earth. This provides cool, dehumidified and comfortable air throughout your home.

In all seasons, the system may provide nearly free hot water whenever it is in use.

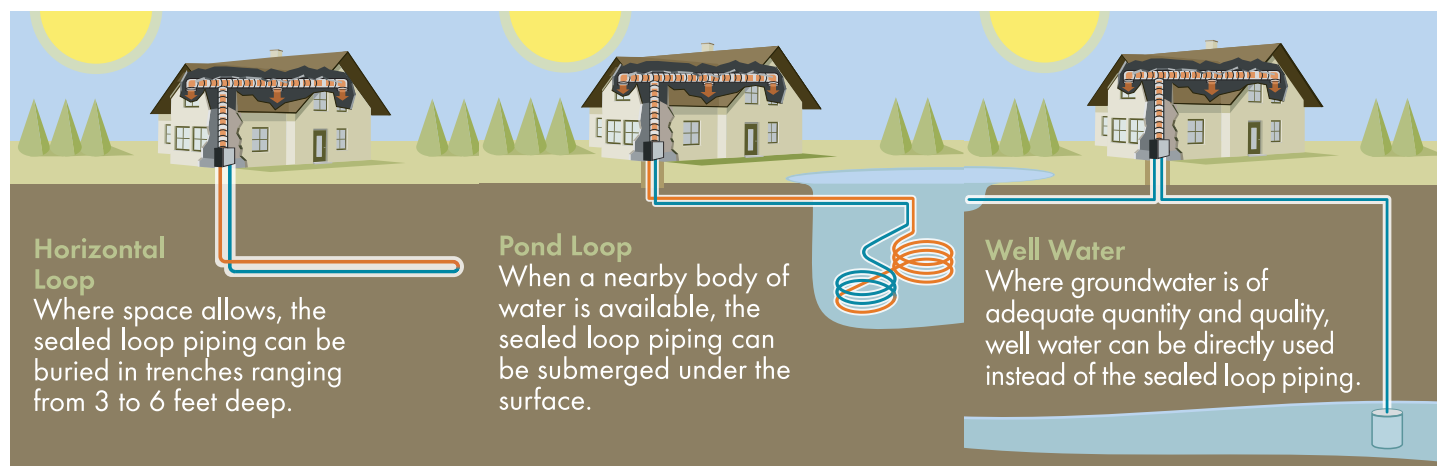
ClimateMaster systems work year-round, in all climates, providing heating, cooling and hot water.



Flexible to install.

designed to fit your exact needs and available space.

Your geothermal loop is custom



COST SAVINGS

Natural Savings.

Over 70% of the total energy used in a typical home is for heating, cooling and water heating. With a geothermal heat pump system, up to 80% of this energy comes free directly from the earth.

Geothermal technology uses the stability of underground temperatures to maximize efficiency.

Low Utility Bills.

The Tranquility® Digital Split Series with vFlow® variable water flow technology provides you the highest energy efficiency of any heating and cooling system available. Efficiency equals savings, which means you will see substantially lower utility costs compared to even the most efficient traditional systems.

More Ways to Save.

Check with your state and local utilities to find out if additional incentives are available.

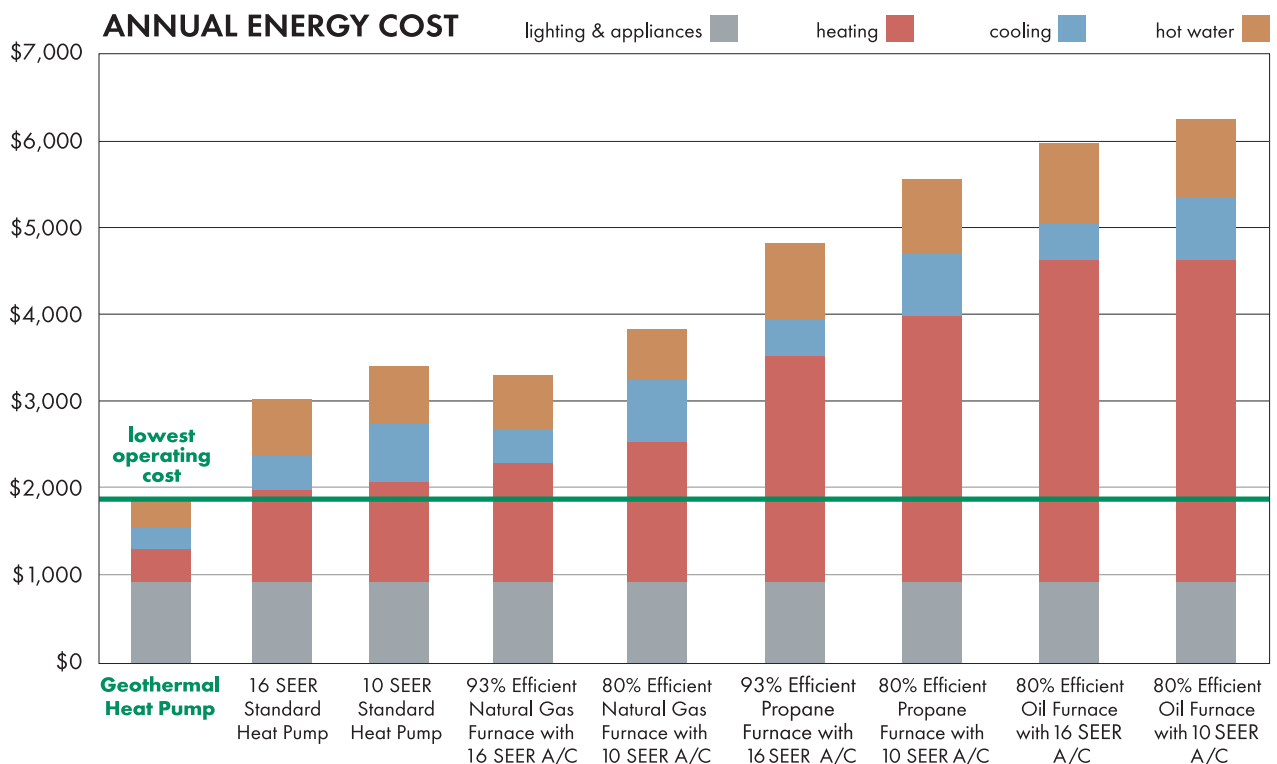
Leading Technology.

Get the latest in geothermal heat pump technology. The Tranquility® Digital Series advanced design includes two-stage operation, variable-speed fan, vFlow® variable water flow and iGate 2 communicating controls. This provides higher efficiency, quiet operation and automatically adapts to provide the optimum comfort and reliability no matter what the weather is outside. The variable-speed blower motor helps even out hot or cold spots in your home and eliminates the air blasts you feel with traditional systems. The Tranquility® Digital Split assures you of blissful comfort, maximum efficiency and low utility bills.

vFlow® varies the water flow through the unit to enhance reliability and reduce the cost to run water pumps by 60–80% compared to traditional single-speed external pumps.



iGate 2 uses the power of 2-way communication to monitor, control and diagnose your system remotely from the phone app or website. The result is maximum efficiency, superb comfort and improved reliability.



Calculations are based upon current utility costs for a typical home in the U.S. Midwest. Visit climatemaster.com to use our online energy calculator or contact a dealer for your detailed savings estimate.

ENVIRONMENTAL TRANQUILITY

Ultra-Quiet Operation.

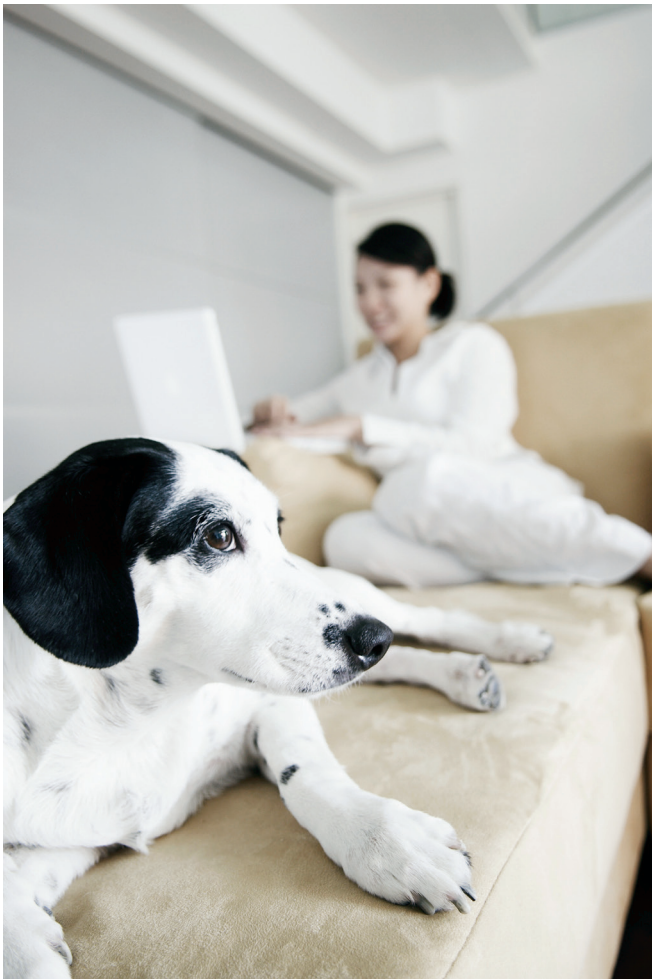
To reduce noise, the Tranquility® Digital Series was designed and tested in our own certified sound lab, an industry exclusive. This series uses a double compressor isolation system that eliminates vibration and an acoustically lined cabinet. Also, unlike traditional systems, geothermal heat pumps have no noisy outdoor fans to disturb you or your neighbors.

Long System Life.

The Tranquility® Digital Series is designed for a long service life, assuring you of savings for many years to come. Exclusive iGate 2 technology ensures worry-free operation. Each unit is backed by a 10-year limited warranty. Underground pipe provided by ClimateMaster carries a 50-year limited warranty.

Safety and Cleanliness.

Geothermal systems use no flames to heat your home, so dangerous carbon monoxide and gas leaks are eliminated. The Tranquility® Digital Series uses foil-faced insulation and a stainless steel drain pan for easy cleaning.



Star Among Energy Stars.

The Tranquility® Digital Series (TE) has been recognized as the Most Efficient of ENERGY STAR® 2023 for both exceeding stringent efficiency requirements and for incorporating smart iGate 2 controls. This ensures you are getting both an EFFICIENT system and an INTELLIGENT system.



Track Record.

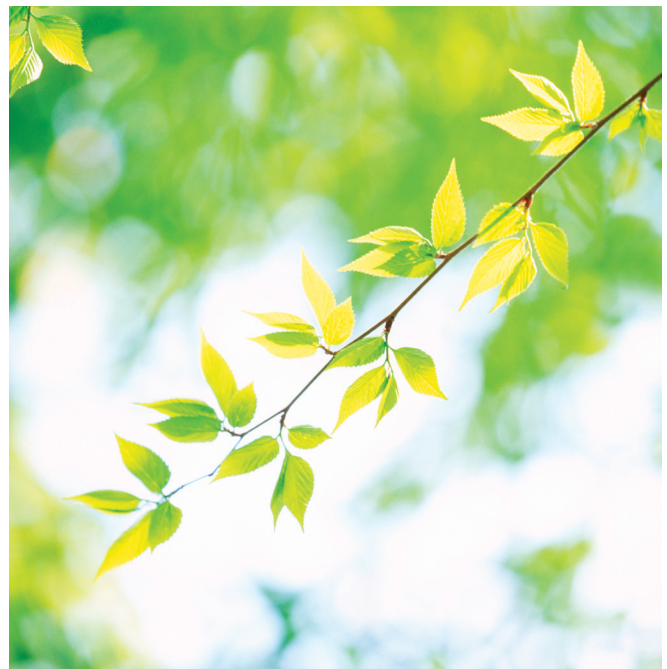
Geothermal heat pumps are a reliable and proven technology that has been widely used for more than 50 years. Millions of geothermal heat pumps are in operation worldwide, keeping people comfortable in homes, schools, hospitals, military facilities and many other buildings.

Breathe Easier.

The Tranquility® Digital Split Series delivers superior air filtration for

Rest comfortably — knowing you are saving up to 80% on energy costs while reducing your impact on the environment.

improved indoor air quality when equipped with the optional MERV 11 rated air filter. The optional EarthPure® Air Cleaner not only removes dust and pollen with high efficiency, it also removes odors that traditional filters are unable to remove.



TRANQUILITY® 30 DIGITAL SERIES ADVANCED FEATURES



High-efficiency filter system provides superior indoor air quality.

Tin-plated or micro-channel air coil protects against corrosive environments.

Variable-speed blower motor helps reduce noise, increases comfort and adapts to zoning systems.

Next generation high-efficiency scroll compressor operates at lower pressures, extending service life. Two-stage operation provides higher efficiency and comfort.

iGate 2 constantly monitors and controls operation for reliability and long life.

Acoustically engineered for ultra-quiet operation.

Optional whole house dehumidification

Easy to clean, foil-backed insulation and stainless steel drain pans.

Optional hot water generator reduces water heating costs.

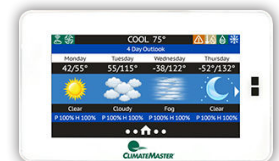
Optional vFlow® eliminates bulky external pump modules and costs 60–80% less to operate.

Stylish, modern design.

- Optional Warranty — Extend labor allowance from the standard 5 years to 10 years.



- iGate 2 Thermostat — Gateway into your system — Program, monitor, control and diagnose from the thermostat.



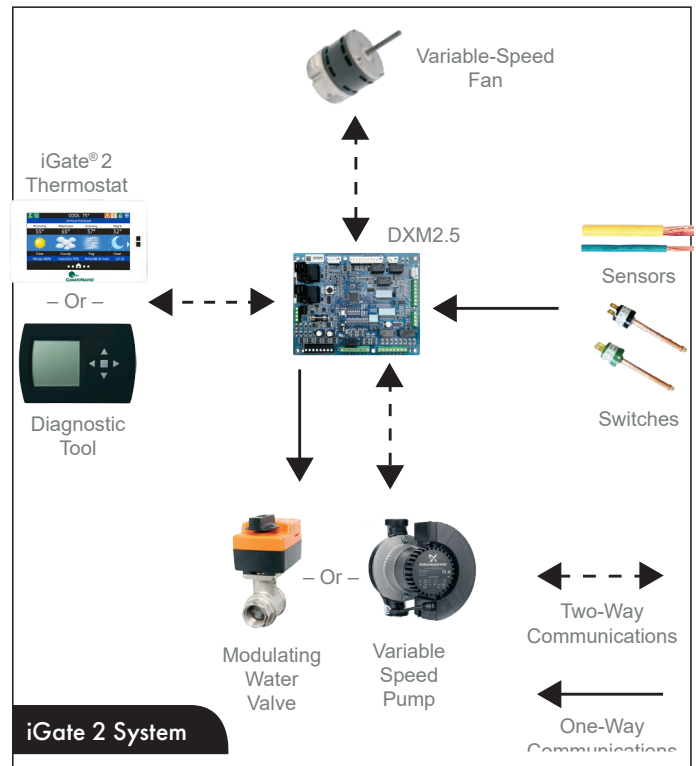
INDUSTRY LEADING TECHNOLOGY

ClimateMaster has applied decades of experience and invested years of research to create two innovative technologies that maximize energy savings, reliability and comfort... and they can only be found in the new Tranquility® Digital systems.

iGate® 2 Communicating Controls

iGate 2 technology represents the next generation in intelligent controls by using 2-way communication to provide a gateway into your system. The iGate 2 control system allows you and your dealer to monitor the performance of your unit, custom tailor its operation, and diagnose any issues, all from your thermostat.

The iGate 2 communications hub is the new DXM2.5 intelligent controller, which analyzes the status of sensors and smart components (also 2-way communicating) to determine how best to operate your system for optimal comfort, efficiency and long-term reliability. All of this information is passed to the iGate 2 thermostat (or dealer diagnostic tool), where it can be displayed in clear language. And since communication is both ways, the iGate 2 thermostat can also be used to configure and tailor your system without touching your unit.



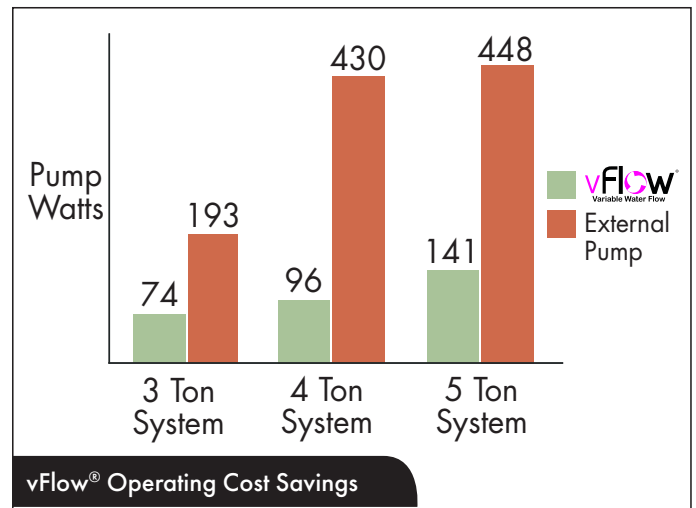
vFlow® Variable Water Flow

vFlow® variable water flow technology is a major advance in geothermal system performance made possible through the iGate 2 system. vFlow® not only builds the major water circulation components into the unit for a clean installation, it also intelligently varies the water flow to minimize pump energy consumption and improve the reliability of your system.

The heart of vFlow® is either a variable-speed pump (for ground loops) or modulating water valve (for ground water) directly linked into the iGate 2 system. Water flow is automatically varied based on changes in unit capacity level (stage) and source water temperature to maintain optimum system performance.

vFlow® systems reduce water pumping power by 60–80% compared to traditional external pumping modules, which can save over \$100 per year in an average 2,000 square foot home. In addition, vFlow® protects the unit against extreme operating conditions, extending the life of the compressor and air coil. Since vFlow® is built inside the unit, it also saves on installation time and makes for a very clean and compact installation.

There's no need for bulky external pumping modules any more.



ClimaDry® Modulating Reheat

ClimateMaster’s patented ClimaDry® Dehumidification is an innovative means of providing modulating reheat without the complication of refrigeration controls. ClimaDry is hot gas generated reheat, which utilizes one of the biggest advantages of a Water-Source Heat Pump (WSHP), the transfer of energy through the water piping system. ClimaDry simply diverts condenser water through a water-to-air coil that is placed after the evaporator coil. If condenser water is not warm enough, the internal “run-around” loop increases the water temperature with each pass through the condenser coil (see figure 1, below).

ClimaDry® Benefits

ClimaDry® is like no other reheat option on the market. Proportional reheat is controlled to the desired leaving air temperature setpoint (factory setpoint of 72°F, 22°C), no matter what the water loop temperature is. Since dehumidification operation will occur under less than full load cooling conditions a good percentage of the time, it is important to have a reheat function that provides

100% reheat in the spring and fall when the water loop is cool. Competitors without ClimaDry® typically use an on/off (non-modulating) refrigeration based reheat circuit, typically referred to as “Hot gas reheat” (HGR). HGR needs higher condensing temperatures to work well, typically 85°F [29°C] entering water temperature (EWT). With HGR, cooler water temperatures produce cooler supply air temperatures, which could overcool the space, requiring additional space heating from another source or a special auto-change-over relay to allow the unit to switch back and forth between reheat and heating. Rarely does HGR provide 100% reheat, like ClimaDry. ClimaDry has a simple and easy to troubleshoot refrigerant circuit. No switching valves or hard to diagnose leaky check valves are utilized. No unusual refrigerant pressures occur during the reheat mode. The ClimaDry refrigerant circuit is like every other ClimateMaster unit (without reheat), so everything the technician already knows applies to troubleshooting the ClimaDry refrigeration circuit. Plus, the water loop portion of the ClimaDry option is easy to understand and diagnose.






TRANQUILITY® 30 DIGITAL SERIES Ground Loop Heat Pump Efficiency Ratings



Unit	First Stage Operation*				Second Stage Operation			
	Cooling		Heating		Cooling		Heating	
	Capacity (Btuh)	EER (Btuh/W)	Capacity (Btuh)	COP	Capacity (Btuh)	EER (Btuh/W)	Capacity (Btuh)	COP
TE-026	20,800	28.0	16,800	5.0	26,000	19.9	20,200	4.1
TE-038	29,700	29.6	23,800	4.8	39,000	20.3	29,700	4.4
TE-049	39,100	27.4	29,800	4.4	49,600	19.3	36,400	4.0
TE-064	51,200	26.7	38,100	4.4	66,200	18.8	48,700	3.9
TE-072	58,100	23.2	46,000	3.9	71,700	16.9	55,800	3.7

ASHRAE/AHRI/ISO 13256-1

TRANQUILITY® SYSTEM COMPARISONS

		Packaged Series				
		● Standard	○ Optional	Trilogy™ 45 Q-Mode (QE)	Tranquility® 30 Digital (TE)	Tranquility® 22 Digital (TZ)
Efficiency	Cooling		45 EER	29.6 EER	22.0 EER	21.9 EER
	Heating		5.1 COP	4.8 COP	4.1 COP	4.3 COP
ENERGY STAR Designation		Most Efficient				
30% Federal Tax Credit Eligible		Yes	Yes	Yes	Yes	
Compressor		Variable	Two Stage	Two Stage	One Stage	
Q-Mode - Free Cooling		●				
Advanced Monitoring and Diagnostics		●	●	●	●	
Wi-Fi Communicating Thermostat		●	●	●	●	
Hot Water Generation		Dedicated Full Time	Part Time	Part Time	Part Time	
ClimaDry Reheat			○			
Front Panels		Stainless Steel	Stainless Steel	Painted	Stainless Steel	
Air Filter		2" MERV 11	2" MERV 11	1" MERV 8	2" MERV 11	
 Internal Variable Water Flow		●	○	○		
External Fixed-Speed Flow Controller					○	
Communicating System						
Indoor Fan	Variable Speed	●	●	●	●	
Configuration	Vertical Upflow	○	○	○	○	
	Horizontal	○	○	○	○	
	Vertical Downflow	○	○		○	
Air Coil		Microchannel	Tin Plated*	Tin Plated	Tin Plated	
Whole House Dehumidification		Trilogy™ Variable Speed	ClimaDry™	Fan Controlled	ClimaDry™	
Warranty - 10-Year Parts; 5-Year Labor Allowance		●	●	●	●	
Warranty - 10-Year Parts; 10-Year Labor Allowance		○	○	○	○	

*TE038 and TT038 uses Microchannel aluminum coil

The Right Choice.

ClimateMaster is the world's largest and most progressive manufacturer of geothermal heat pumps. We are committed to innovation and dedicated to environmentally clean, economically sound and superbly comfortable home and business environments. Each ClimateMaster product is produced in our state-of-the-art facility utilizing quality management systems. We strive for the highest product quality and service after the sale to give you peace of mind.

ClimateMaster has been designing and building equipment that enhances environments we live and work in every day for more than 60 years. In addition to geothermal heat pumps, ClimateMaster offers the most extensive product line of water source heat pumps for use in a wide variety of applications.

ClimateMaster products are built in the U.S.A.





A **NIBE** GROUP MEMBER

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ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time for order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 405-745-6000 for specific information on the current design and specifications. Savings vary due to weather conditions, local conditions, user preferences, and utility rates. Statements and other information contained herein are not warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products.

Engineered and assembled in the USA