

TRANQUILITY® 22 DIGITAL SERIES



CLIMATEMASTER® GEOTHERMAL HEAT PUMP SYSTEMS
SMART | RESPONSIBLE | COMFORTABLE



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 under-



ground temperature to provide heating, cooling, and hot water at remarkably high efficiencies. So high, in

fact, that energy use can be cut by up to 80%. 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.

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.

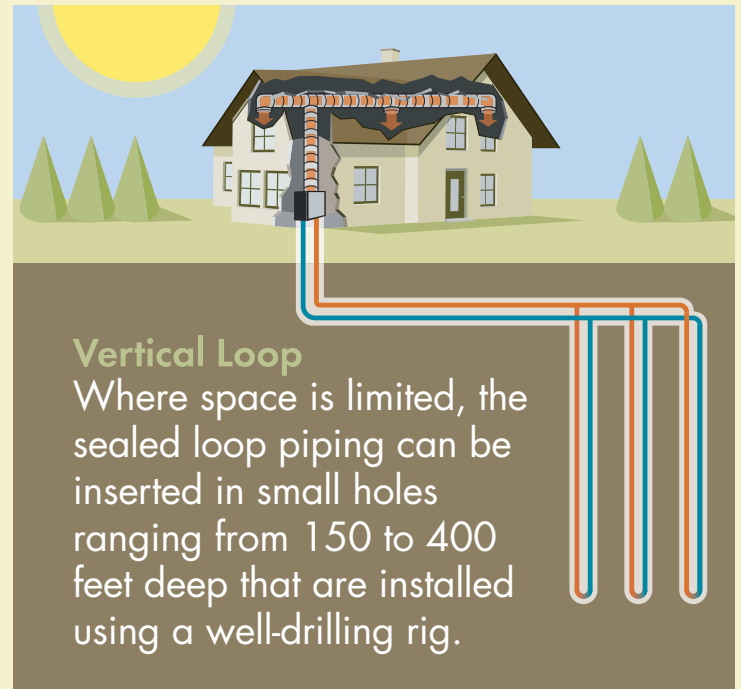
Water circulating in the loop piping absorbs heat from the earth and carries it to the heat pump, where it is concentrated and sent as warm, comfortable air throughout your home.

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.

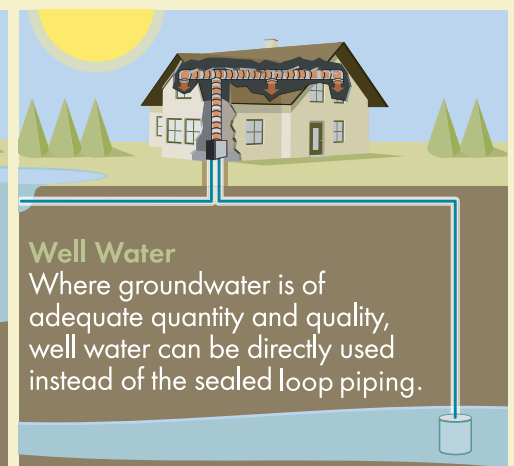
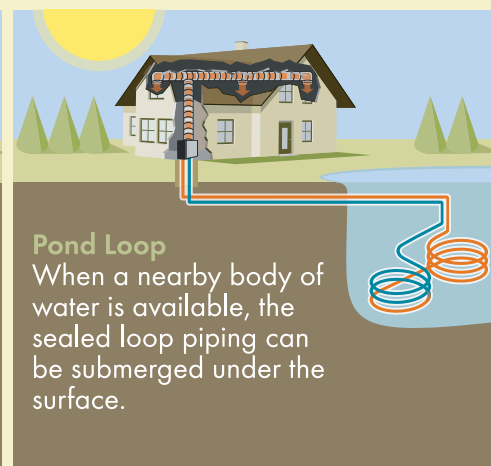
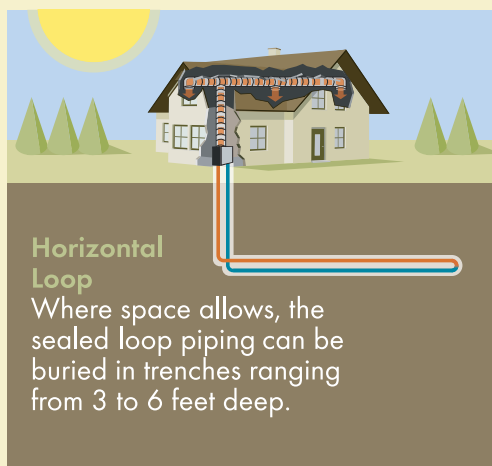
ClimateMaster systems work year-round, in all climates, providing heating, cooling and hot water.

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



Flexible to install.

Your geothermal loop is custom designed to fit your exact needs and available space.





The award-winning Tranquility® 22 Digital
The unit can fit in a utility closet (as shown), garage, basement, or attic.

COST SAVINGS

Low Utility Bills.

The Tranquility® Series provides you the highest energy efficiency of any space conditioning system available. Efficiency equals savings, and geothermal heat pump systems substantially reduce operating costs over even the most efficient traditional systems.

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

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.

More Ways to Save.

A federal tax credit saves you 30% on the total cost when you install your geothermal heat pump system. Check with your state and local utilities to find out if other incentives are available in addition to the federal tax credit.

HOMEOWNER SATISFACTION

Leading Technology.

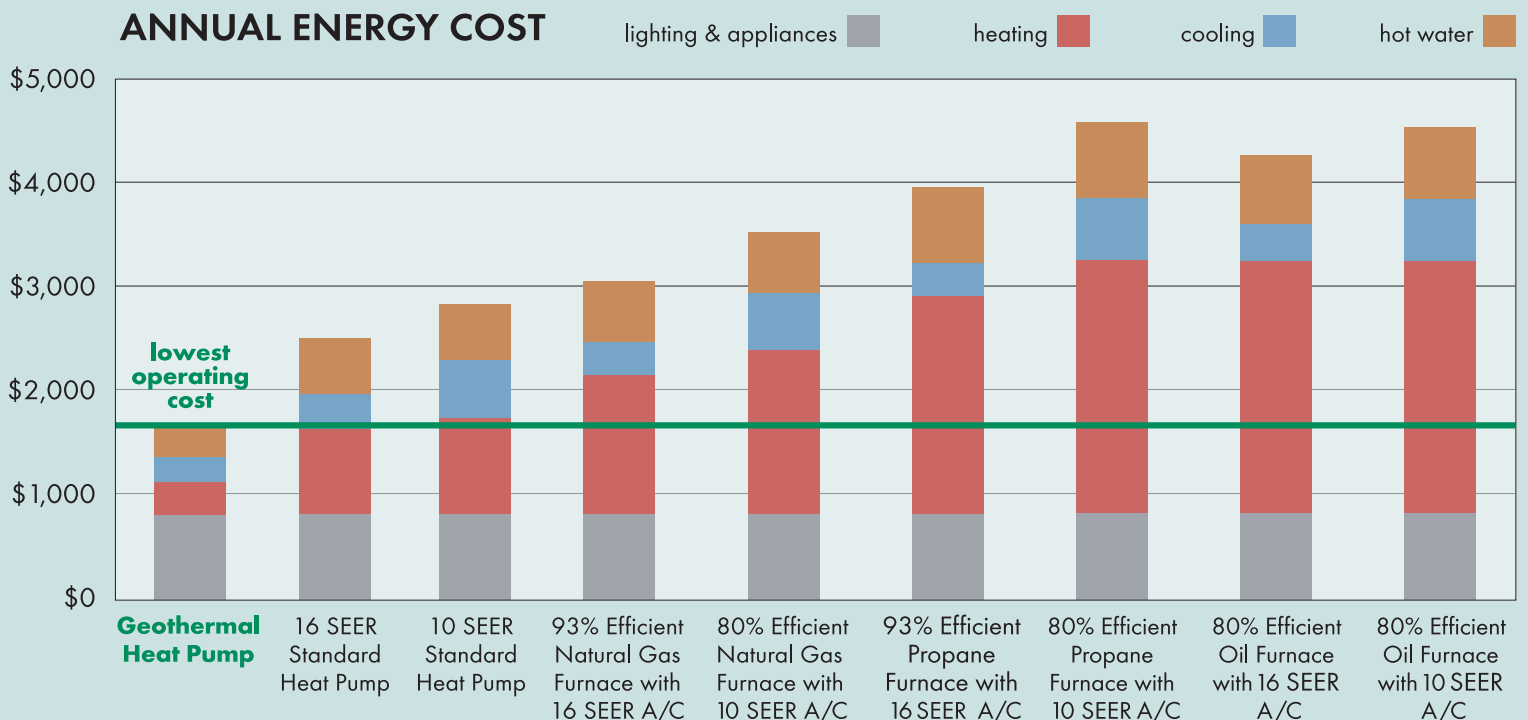
Get the latest in geothermal heat pump technology. The Tranquility's advanced design includes two-stage operation and variable-speed fan. This provides higher efficiency, quiet operation and automatically adapts to provide the optimum comfort no matter what the weather is outside. Industry-leading communicating controls allow you to better control your comfort and allows a service technician to configure, monitor and diagnose the system from the thermostat! The Tranquility® assures you of blissful comfort, maximum efficiency and low utility bills.

Ultra-Quiet Operation.

To reduce noise, the Tranquility® 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® Series is designed for a long service life, assuring you of savings for many years to come. Exclusive electronic controls provide worry-free operation. Each unit is backed by a 10-year limited warranty. Underground pipe provided by ClimateMaster carries a 50-year limited warranty.



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

Safety and Cleanliness.

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

Track Record.

Geothermal heat pumps are a reliable and proven technology that has been widely used for more than 30 years. Millions of geothermal heat pumps are in operation worldwide, keeping people comfortable in homes, schools, hospitals, military facilities and many other buildings.

Most Efficient Star Among Energy Stars.

Tranquility® 22 Digital systems qualify for the highest Energy Star® recognition - Energy Star® Tier 3 and qualifies for the Federal Tax Credit. According to the U.S. Environmental Protection Agency (EPA), geothermal systems are "the most energy-efficient, environmentally clean and cost-effective space conditioning systems available today."



Earth-Friendly.

For an Earth-friendly system, the Tranquility® Series uses EarthPure® Ozone Safe refrigerant. EarthPure® refrigerant is non-chlorine based and has zero ozone depletion potential.

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

Competitive Difference.

The Tranquility® 22 Digital features the best market price across the board with top-tier components - the Copeland UltraTech™ II two-stage compressor, Emerson UltraTech™ communicating variable speed fan motor and digital communicating controls . . . this unit has created a paradigm shift in the geothermal heat pump industry. The industry's most feature-filled compact cabinet and footprint, ClimateMaster has set the benchmark for creating a unit once thought difficult to service/install compared to most conventional systems. The Tranquility® 22 Digital features industry-exclusive components and accessories that no other competitor can offer at our price.



TRANQUILITY® 22 DIGITAL SERIES ADVANCED FEATURES

Variable-speed fan helps reduce noise, and increases comfort.

Tin-plated air coil protects against corrosive environments.

High-efficiency scroll compressor operates at part load during milder demand, thus increasing comfort and efficiency.

Communicating digital controls constantly monitor operation for reliability and long life.

Smallest cabinet footprint in the industry.

Acoustically engineered for Ultra-Quiet operation.

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

'Plug and Play' integrated loop pump eliminates bulky external pump modules.

Optional hot water generator to save money on domestic hot water heating.



SYSTEM COMPARISONS

	Tranquility® 22 Digital (TZ) Series		
	Standard	Factory Option	Dealer Option
Two-Stage Compressor	○		
Variable-Speed Fan Motor	○		
Internal Variable-Speed Flow Controller for Closed Loop Application		○	
Modulating Valve for Open Loop Applications		○	
Digital Communicating Controls (Microprocessor)	○		
Tin-Plated Air Coil	○		
Digital Multi-Stage Communicating Thermostat			○
Hot Water Generator	○		
Copper Water Coil	○		
Cupro-Nickel Water Coil		○	
Bi-Directional Thermal Expansion Valve	○		
Dual-Level Compressor Isolation	○		
Polyester Powder Coat Paint	○		
Fault Identification & Reset at Thermostat	○		
Unit Performance Sentinel™ Performance Monitor	○		
Extended Labor Allowance and Service Warranty			○

TRANQUILITY® 22 DIGITAL SERIES Ground Loop Heat Pump Operation

Unit	Ground Loop Heat Pump Operation			
	Cooling		Heating	
	Capacity (Btuh)	EER (Btuh/W)	Capacity (Btuh)	COP
TZ-024 Part	18,000	20.2	14,300	3.8
TZ-024 Full	22,900	15.2	18,400	3.6
TZ-030 Part	24,200	20.9	19,400	3.9
TZ-030 Full	29,900	15.7	23,800	3.6
TZ-036 Part	27,100	20.6	22,300	4.0
TZ-036 Full	34,700	14.8	27,900	3.6
TZ-042 Part	34,000	22.0	26,900	3.8
TZ-042 Full	43,100	16.1	33,300	3.4
TZ-048 Part	37,600	21.2	29,200	4.1
TZ-048 Full	48,150	15.5	35,600	3.7
TZ-060 Part	47,200	22.0	37,200	3.9
TZ-060 Full	59,800	16.1	45,900	3.5

Tested in accordance with ASHRAE/AHRI/ISO 13256-1

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 that are ISO 9001:2000 certified. We strive for the highest product quality and service after the sale to give you peace of mind.

An LSB Industries, Inc. company (NYSE: LXU), ClimateMaster has been designing and building equipment that enhances environments we live and work in every day for more than 50 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.



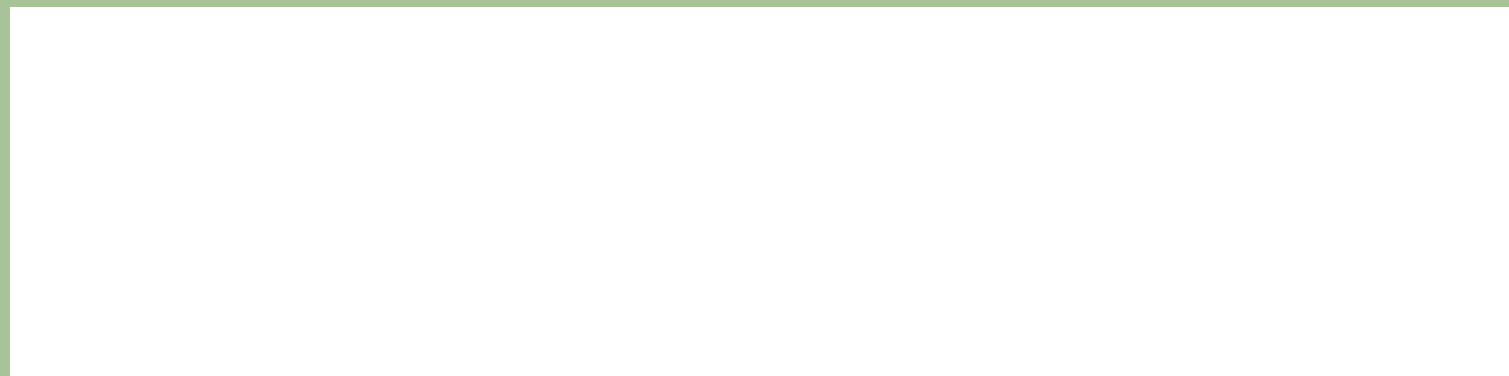
24-hour information:

877-436-6263

climatemaster.com

7300 S.W. 44th Street
Oklahoma City, OK 73179
405-745-6000

An LSB Industries, Inc. Company (NYSE: LXU)



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.

The quality management systems used in the manufacture of ClimateMaster's products are ISO 9001:2000 certified.

