

TRANQUILITY® SPLIT SERIES



CLIMATEMASTER GEOTHERMAL HEAT PUMP SYSTEMS  
DECLARE YOUR PERSONAL ENERGY INDEPENDENCE



## 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<sup>®</sup> 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.

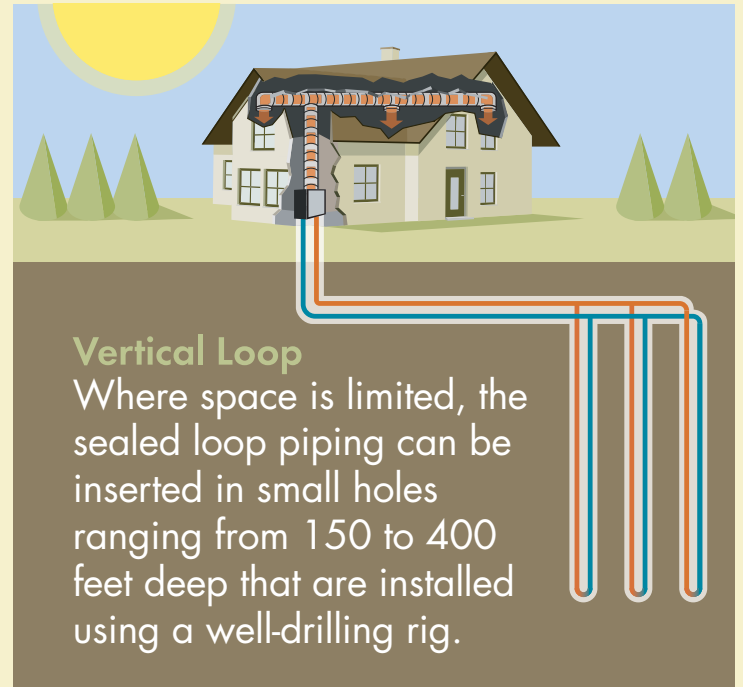
Water circulating in the loop piping absorbs heat from the earth and carries it to the heat pump, where it is concentrated and sent as warm, comfortable air throughout your home.

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.

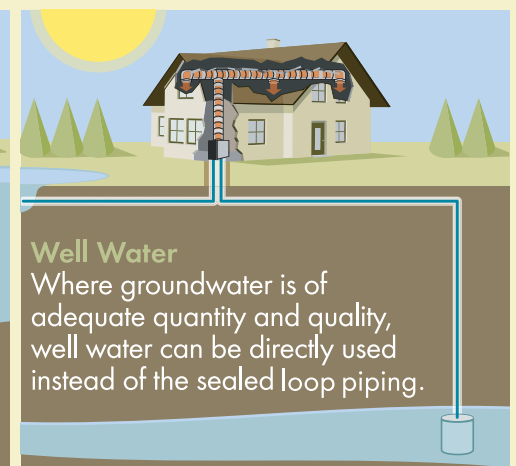
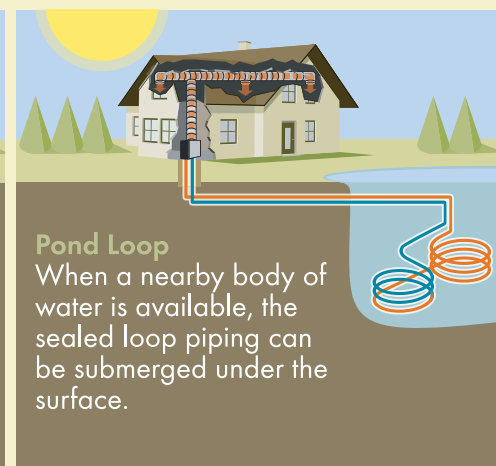
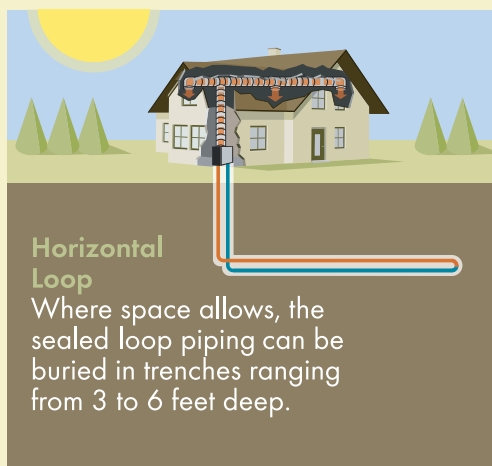
In all seasons, the system may provide nearly free hot water whenever it is in use.

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



Flexible to install.

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





**The award-winning Tranquility® Indoor Split Series**  
This unit can be easily connected to an existing furnace or installed with an air handler.



**The award-winning Tranquility® Indoor Split Series Cased Coil**  
This unit can be easily connected to an existing furnace.



**The award-winning Tranquility® Indoor Split Series Air Handler**  
This unit can easily replace an existing furnace or air handler.

# COST SAVINGS

## Flexible, Affordable.

The Tranquility® Split Series is available in indoor configurations offering the most flexible geothermal technology available today. Easily connected to a new or existing air handler or furnace, the Tranquility® Split Series provides you with the maximum in convenience and comfort for less. These systems are the perfect combination of energy savings, comfort, and reduced operating expenses.

Where space is limited, a split system is a great solution for energy efficient comfort in a compact cabinet. The Tranquility® Split Series is ideal for dual-fuel applications providing added flexibility during the cold winter months. By attaching to an existing high efficiency furnace, a Tranquility® Split system is an excellent upgrade for additional savings and comfort.

## Low Utility Bills.

The Tranquility® Split Series provides you with 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.

## Natural Savings.

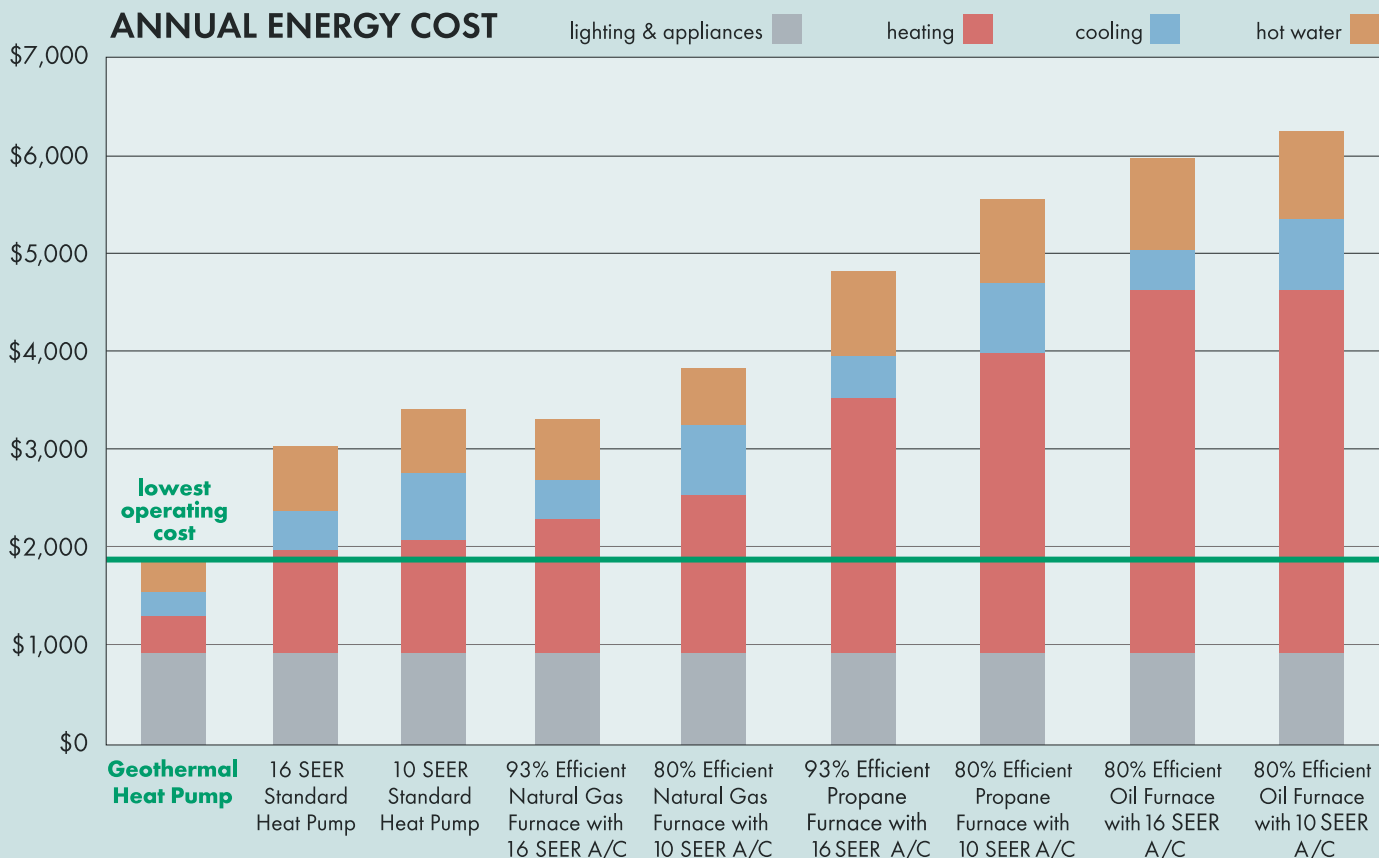
Over 70% of the total energy used in a typical home is for heating, cooling and water heating. With a geothermal heat pump system, up to 80% of this energy comes free directly from the earth.

## 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.

## Leading Technology.

Get the latest in geothermal heat pump technology. The Tranquility® Split Series advanced design incorporates two-stage operation. This provides higher efficiency, quiet operation and automatically adapts to provide the optimum comfort no matter what the weather is outside. The Tranquility® assures you of blissful comfort, maximum efficiency and low utility bills.



Calculations are based upon current utility costs for a typical home in the U.S. Midwest.

Visit [climatemaster.com](http://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® Split 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.

## Long System Life.

The Tranquility® Split 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.

## 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.

## Star Among Energy Stars.

The environmental advantages of Energy Star qualified Tranquility® heat pumps are clear. Up to 80% of energy supplied comes directly from the Earth and is clean, free and renewable. This means geothermal heat pumps offer the lowest carbon footprint of any space conditioning technology. 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.

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

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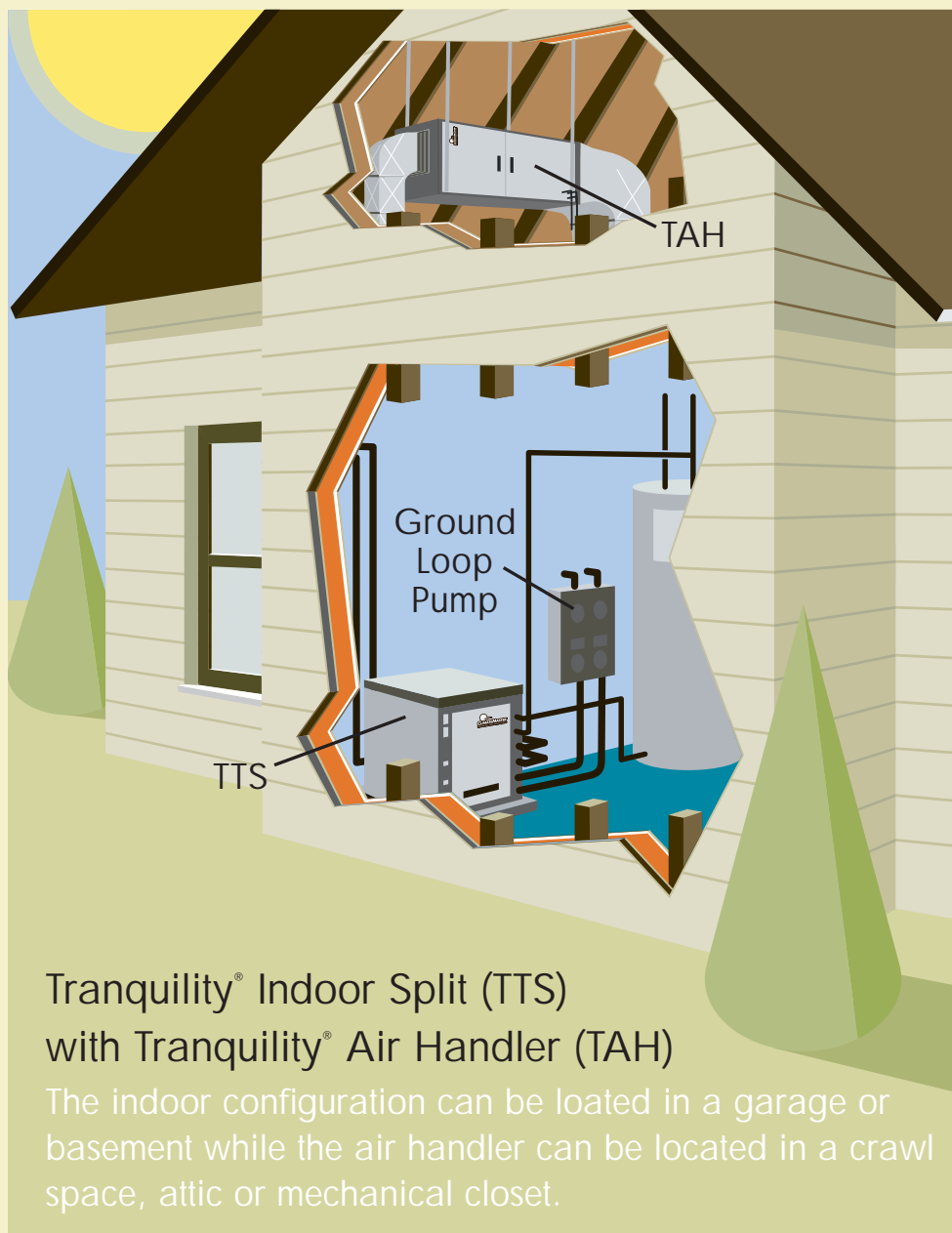
# SYSTEM COMPARISONS

Split Series ● Standard ○ Optional		Tranquility® Indoor Split (TTS)
Efficiency (With TAH Air Handler)	Cooling	26.1 EER
	Heating	4.5 COP
ENERGY STAR Designation		Tier 3
30% Federal Tax Credit Eligible		Yes
Two-Stage Compressor		Yes
Hot Water Generator		○
Front Panels		Stainless Steel
Fixed-Speed Flow Controller		○
Non-Communicating Electronic Controls		●
Thermal Expansion Valve (TXV)		●
Dual-Level Compressor Isolation		●
Dual-Fuel Application with Cased Coil		○
Warranty - 10-Year Parts; 5-Year Labor Allowance		●
Warranty - 10-Year Parts; 10-Year Labor Allowance		○

Split Series ● Standard ○ Optional	Tranquility® Air Handler (TAH)	Tranquility® Cased Coil (TAC)
Variable-Speed Indoor Fan	●	N/A
Thermal Expansion Valve (TXV)	●	●
Field-Convertible Discharge	●	●
Front Panels	Stainless Steel	N/A
Warranty - 10-Year Parts; 5-Year Labor Allowance*	●	●
Warranty - 10-Year Parts; 10-Year Labor Allowance*	○	○

\*When matched with ClimateMaster Split (TTS)





# TRANQUILITY® SPLIT SERIES Ground Loop Heat Pump Operation With Tranquility® Air Handler

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
TTS-026	20,700	25.5	15,800	4.4	25,600	18.5	18,800	3.9
TTS-038	29,100	26.1	22,200	4.5	38,800	18.8	27,900	4.1
TTS-049	38,300	23.5	30,300	4.3	49,200	17.5	37,100	3.9
TTS-064	46,200	22.7	37,600	4.2	59,200	16.9	46,400	3.7

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

\*Approximately 80% of your heating and cooling needs are met using first stage operation.

# TRANQUILITY® SPLIT SERIES Ground Loop Heat Pump Operation With Tranquility® Cased Coil

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
TTS-026	20,700	24.5	15,800	4.3	25,700	18.2	18,600	3.8
TTS-038	28,600	24.9	22,200	4.4	38,600	18.7	27,500	4.1
TTS-049	38,600	23.5	30,400	4.4	48,800	17.7	36,700	4.0
TTS-064	45,800	21.9	37,700	4.1	58,500	16.8	45,600	3.7

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

\*Approximately 80% of your heating and cooling needs are met using first stage operation.

### 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.



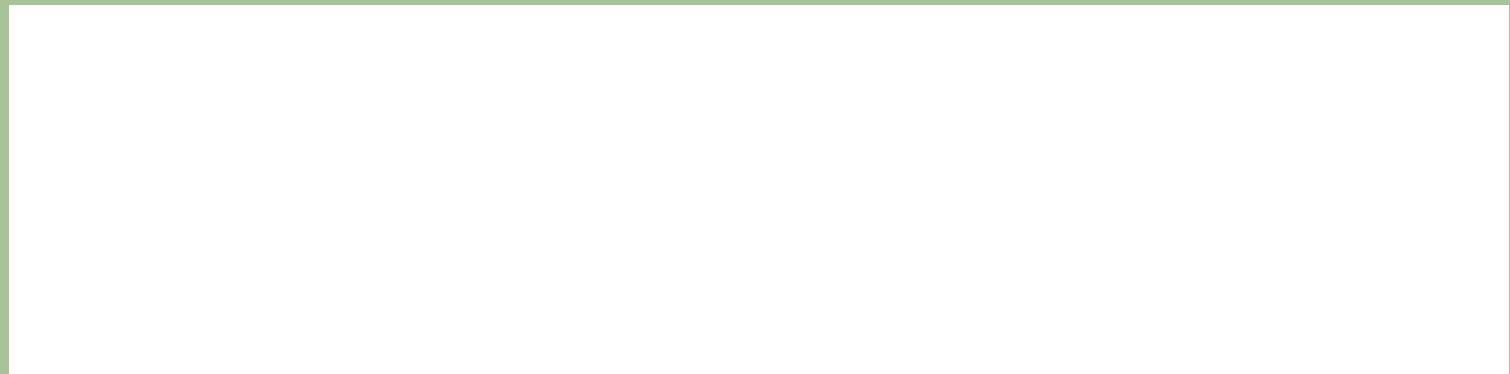
24-hour information:

877-436-6263

**climatemaster.com**

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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.

