



# TRANQUILITY<sup>®</sup> FLUID COOLER

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BROCHURE

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## THE ULTIMATE GEOTHERMAL COMPANION

Just five feet below the earth's surface, the earth maintains a constant temperature year-round regardless of weather extremes above ground.

Geothermal HVAC operates by using a ground loop to mobilize the earth's steady temperature and circulate affordable and efficient heating and cooling into almost any home. So, when looking for a renewable way to heat and cool a home, it's hard to beat a geothermal heat pump.

In unique scenarios, your ground loop may benefit from the assistance of a fluid cooler to maintain that ultimate indoor comfort geothermal heating and cooling owners enjoy. Get a boost in efficiency, revitalize an under-performing ground loop, or run your heat pump system entirely on the ClimateMaster Tranquility (TFC) Fluid Cooler.



In certain areas of North America, loop installation costs are higher due to driller availability or challenging sub-surface conditions, and geothermal heating and cooling might be just out of reach for some people. In hybrid applications, the Tranquility TFC can effectively reduce the number of the geothermal boreholes needed for installation. So, it's the best of both worlds; get a geothermal heating and cooling system at an affordable price.

In sub-tropical areas globally, the Tranquility TFC can be the perfect option for permanent installation without a ground loop. Enjoy low energy bills, ultimate comfort, and convenience without the need for a geothermal loop installation.

## Features and Benefits

### Small Footprint

Fits on a standard air conditioner pad

### Multiple Capacities

Two units span the entire residential range of heat pump capacities

### Rigid Construction

Engineered for ease of installation

### Quiet Operation

Precisely balanced variable speed fan modulates to maintain the load

### All-Weather Design

Weather resistant powder coat finish and heavy gauge aluminum hail guard standard and optional eCoat and UV

### Safe

ETL Certified to UL Standards

### Energy Efficient

Highest quality and efficiency fan and optional circulating pump

### Reliable

Proven performance to increase the efficiency of



## **RESTORING EFFICIENCY (Hot loop)**

Depending on local environmental factors, some areas of the globe can experience what is known as a hot loop. A hot loop happens over a sustained period when the soil surrounding your geothermal loop can no longer adequately dissipate enough heat for optimal energy savings.

Installed between your geothermal loop and heat pump, the Tranquility Fluid Cooler acts as a vital heat rejection device - delivering optimal ground loop water temperature back to your heat pump system.

In this scenario, we developed the Tranquility Fluid Cooler to help the soil surrounding your geothermal loop recover and subsequently return to original conditions.

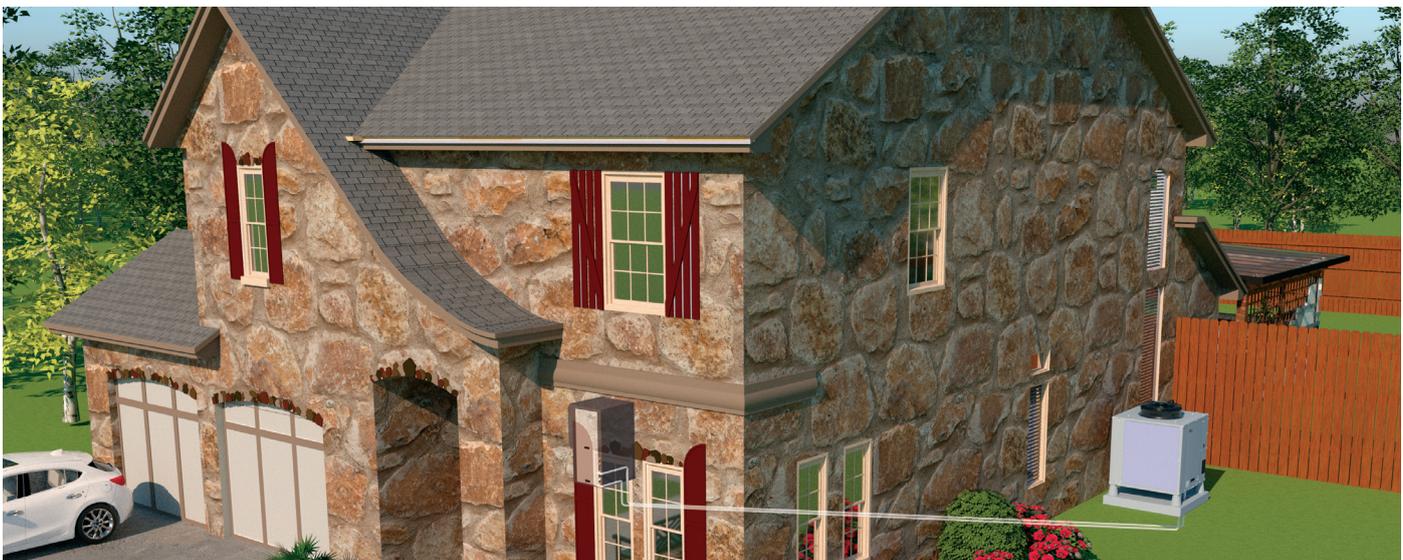
## **ADD MORE HEATING & COOLING CAPACITY WITHOUT MORE DRILLING (Undersized loop)**

An undersized loop happens when your geothermal ground loop is not correctly dissipating or absorbing heat to maintain the optimal operating conditions. This can occur for a variety of reasons including increasing the occupied square footage of the home, extended periods of dry weather, and the impact of climate change on ambient temperature extremes. An undersized loop can lead to higher energy bills, undesirable indoor comfort, and potential failure of the geothermal heat pump.

The Tranquility Fluid Cooler is an excellent candidate for resolving undersized loops in most residential and light commercial scenarios. After installation, the fluid cooler acts as an extension of the undersized loop, providing much-needed system relief. The result is a return to optimal comfort, convenience, and a return to lower energy bills.

## **STANDALONE SYSTEM (When no drilling is needed)**

In sub-tropical areas globally, the Tranquility Fluid Cooler can be the perfect option for permanent installation without a ground loop. Enjoy low energy bills, ultimate comfort, and convenience without the need for a geothermal loop installation.



Model #	Capacity (ton)	Options			
		High Head Pump	Flow Switch	3-Way Flush Valve	Air Coil
TFC036BGS2BNNNS	3	X		X	Standard
TFC036BGS2ANNNS	3	X		X	E-Coat + UV-Coat
TFC036BGSCBNNNS	3		X	X	Standard
TFC036BGSCANNNS	3		X	X	E-Coat + UV-Coat
TFC060BGS2BNNNS	5	X		X	Standard
TFC060BGS2ANNNS	5	X		X	E-Coat + UV-Coat
TFC060BGSCBNNNS	5		X	X	Standard
TFC060BGSCANNNS	5		X	X	E-Coat + UV-Coat

Available in nominal 3 and 5 ton capacities

All units include: ultra quiet variable speed fan, high quality integrated flush valves, and stainless steel braided hoses for easy installation

Options include: high head variable flow pump, flow switch, standard and E-Coat + UV-Coat air coil



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