



## PRODUCT LINE

HEATING | COOLING | HOT WATER

[www.geostar-geo.com](http://www.geostar-geo.com)



AFFORDABLE RENEWABLE CLEAN

GEO THERMAL HEAT PUMPS

## WHAT IS GEOTHERMAL?

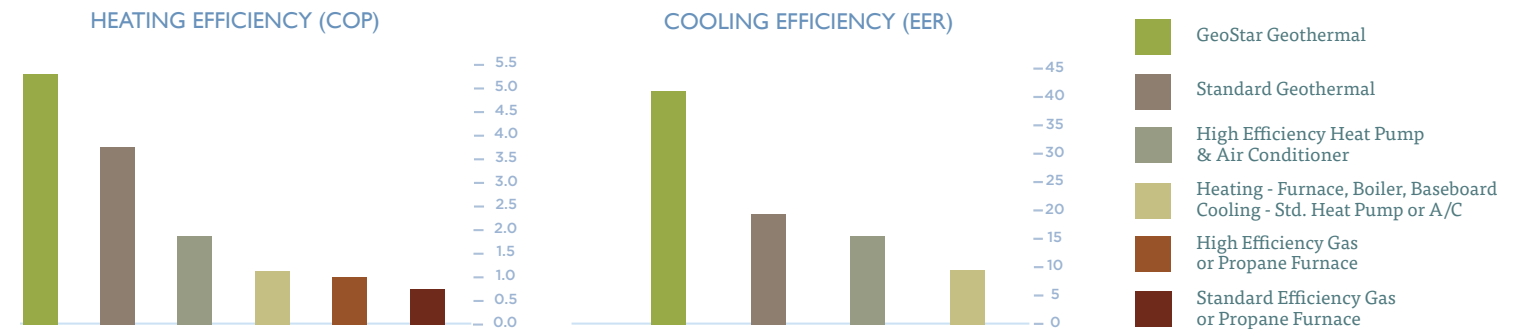
Geothermal units are similar to ordinary heat pumps but use the solar energy stored just below our feet to provide heating, air conditioning and hot water. The earth acts as a giant solar panel, absorbing roughly half of the sun's heat energy. A series of pipes called a "loop" (see next page for more) is buried just below the frost line to tap into that stored energy. In the winter,

heat is brought in through the loop, concentrated, and delivered throughout your home. During summer, the excess heat in your home is removed and delivered back to the earth, completing the cycle. Because geothermal units use the earth's natural heat, they are among the most efficient and comfortable heating and cooling technologies currently available.



## COMPARE THE PERFORMANCE

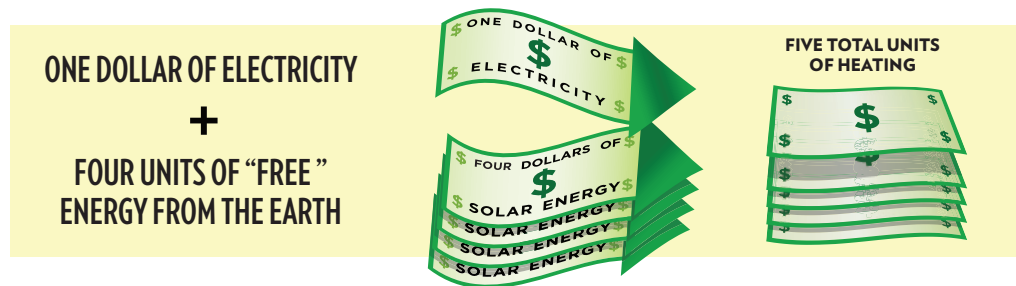
A GeoStar unit can reduce your annual costs for heating, cooling and hot water by as much as 70% per year. No other gas furnace, air conditioner or heat pump comes close to GeoStar's efficiency. With continuous and dramatic increases in the cost of fossil fuels like natural gas, propane and fuel oil, the savings possibilities are even greater in the future. Your GeoStar dealer can use software modeling tools to estimate the heating and cooling costs for your home based on square footage, construction style, and climate.



## GEOSTAR BENEFITS

Thanks to the unique way geothermal units operate, they provide a host of exciting benefits to you and our environment.

**AMAZING ENERGY EFFICIENCY:** Geothermal heat pumps don't create energy, they simply move it. Only a small amount of electricity is used to circulate heat to and from your home. This allows GeoStar units to provide \$5 of heating for every \$1 of electricity used, while current "high-efficiency" fossil fuel furnaces provide only 98c. Our units are far more efficient than any conventional furnace!



**COST EFFECTIVENESS:** Though geothermal systems can be more expensive to purchase up front, the cost difference will be returned through drastically lower energy bills. Most GeoStar owners see savings up to 70% on their utility bills!

**GREATER COMFORT:** GeoStar units run only at the level needed by using variable speed motors. They slowly ramp up to speed rather than "roaring" to life like traditional units—resulting in even, consistent comfort. You won't experience the large temperature fluctuations associated with other heating and cooling solutions.

**QUIET:** With our units, there's no noisy outdoor equipment to disturb the peace or clutter your yard. Some homeowners have reported checking the unit to see if it's running.

**LONGER LIFE AND RELIABILITY:** Because GeoStar units don't require any outdoor equipment, they are protected from the rain, snow, environmental contaminants and abuse that hinders the efficiency of traditional air conditioners and heat pumps.

**ENVIRONMENTALLY FRIENDLY:** Geothermal units don't burn any fossil fuels or create carbon monoxide. This reduces our dependence on foreign oil while it works to reduce greenhouse gas emissions. One GeoStar geothermal unit is the environmental equivalent of taking two cars off the road forever. In fact, the Environmental Protection Agency (EPA) says geothermal heat pumps are the most environmentally friendly and cost effective way to condition our homes.

## GEOTHERMAL LOOP TYPES:

There are four main loop types used in the geothermal industry today. Your GeoStar dealer can provide you with guidance and advice for your specific situation.



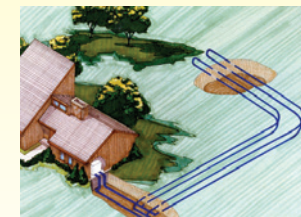
### VERTICAL LOOP

Used when space is limited. Holes are bored approximately 125 to 250 ft. deep using a drilling rig. A pair of polyethylene pipes with a u-bend fitting is inserted into the holes. A typical home requires three to five bores with roughly a 15-foot separation between the holes.



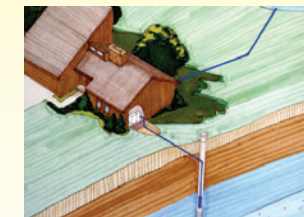
### POND LOOP

If an adequately sized body of water is close to your home, a pond loop can be installed. A series of closed loops are coiled and sunk to the bottom of the pond or lake. A 1/2 acre, 8-foot-deep pond is usually sufficient for the average home.



### HORIZONTAL LOOP

Used where adequate land is available. Horizontal loops involve one or more trenches dug using a backhoe or chain trencher. Polyethylene pipes are inserted, and the trenches are backfilled. A typical home requires 1/4 to 3/4 of an acre for the trenches.



### OPEN LOOP

An open loop is used where there is an abundant supply of quality well water. The well must have enough capacity to provide adequate flow for both domestic use and the GeoStar unit. GeoStar units require 3 - 10 GPM, depending on size.



Homeowners who install an ENERGY STAR® rated geothermal system in the U.S. are eligible for a 30% federal tax credit. The 30% credit will last through 2032 and can be claimed on equipment and installation costs with no upper limit. The credit is scheduled to decrease to 26% in 2033 then to 22% in 2034, so act now for the most savings!



## FORCED AIR ALL-IN-ONE UNIT



**28.0 EER | 4.8 COP**



### ASTON ADVANCED SERIES



Aston Advanced Series units are the best that GeoStar has to offer. It comes with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring. Dual capacity operation ensures increased comfort, energy savings, and reliability. Each unit utilizes environmentally safe R-410A refrigerant.

### ASTON SERIES



Aston Series units represent some of our best efficiencies and features. Available in single and dual capacity models, allowing the choice of increased comfort, energy savings and reliability. Each unit utilizes environmentally safe R-410A refrigerant and comes standard with our Aurora family of Base Controls for advanced two-way communication.



**22.3 EER | 4.1 COP**



### MAGNOLIA PLUS SERIES



GeoStar Magnolia Plus Series units are the perfect balance between performance and price. They benefit from more than 30 years of advancements in research, engineering, and manufacturing. You'll rest easy knowing the Magnolia Plus Series will provide you with many years of reliable energy savings and relaxation.

## FORCED AIR / HYDRONIC COMBO



**25.7 EER | 4.2 COP**



### CYPRESS SERIES



The Cypress Series is a geothermal boiler, furnace and air conditioner—all in one unit. It provides ultra efficient heating and cooling along with hot water for radiant floor heat (domestic hot water option also available). It shares many of the features from our Aston Series line such as ozone-safe R-410A refrigerant, computer controlled components, advanced troubleshooting features, scroll compressors, and corrosion resistant air coils.

## INDOOR SPLIT UNITS



**25.3 EER | 4.4 COP**



### ASTON ADVANCED SERIES INDOOR SPLIT



Aston Advanced Series units are the best Indoor Splits that GeoStar has to offer. It comes with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring. It can achieve complete home heating & cooling with our GeoStar air handler, and dual capacity operation ensures increased comfort, energy savings, and reliability.

### ASTON SERIES INDOOR SPLIT



Indoor Splits are for installations where space is at a premium. When combined with a GeoStar air handler, the unit can provide complete home heating & cooling. When added to a furnace, the system will automatically switch to the most economical heating source for energy in a conveniently small footprint. The Aston Series is available in either single or dual capacity models.

## OUTDOOR SPLIT UNITS



**25.3 EER | 4.4 COP**



### ASTON ADVANCED SERIES OUTDOOR SPLIT



Aston Advanced Series units are the best Outdoor Splits that GeoStar has to offer. It comes with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring. It can achieve complete home heating & cooling with our GeoStar air handler, and dual capacity operation ensures increased comfort, energy savings, and reliability.

### ASTON SERIES OUTDOOR SPLIT



Outdoor Splits are designed for use outside when indoor systems would be difficult to install. The Aston Series Outdoor Splits are covered by a high-quality sealed cabinet for protection and are engineered to be connected to an air handler or a fossil fuel furnace and automatically switch to the most economical heating source for improved energy conservation. Again, all Aston units utilize ozone-safe R-410A refrigerant.

## SINGLE HYDRONIC UNITS



**28.0 EER | 4.8 COP**



### ASTON ADVANCED SERIES SINGLE HYDRONIC



Aston Advanced Single Hydronic comes with all the features of the Aston Series Base model, but also comes standard with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring.

### ASTON SERIES SINGLE HYDRONIC



Aston Single Hydronic units are engineered for hot water needs such as pool/spa heating, radiant floor, snow melt, aquaculture, and process water installations. Units can be selected as heating only or heating/cooling models (020 heating only). Scroll compressors, R-410A refrigerant, and oversized heat exchangers combine to provide users with exceptional energy savings while straightforward controls make operation easy.



**22.0 EER | 3.5 COP**



### ASTON ADVANCED SERIES WITH OPTIHEAT



The Aston Advanced with OptiHeat high temperature hydronic heat pump is the geothermal solution for boiler replacement. It utilizes an additional heat exchanger to divert excess heat and reinjects it into the system, creating higher exiting water temperatures and optimum compressor operating conditions. Smaller loads are required and result in the ultimate in efficiency. It comes with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring.

## DUAL HYDRONIC UNITS



**16.1 EER | 3.3 COP**



### ASTON ADVANCED SERIES DUAL HYDRONIC



Aston Advanced Dual Hydronic products are engineered for the high-volume water demands of larger luxury homes. Two high efficiency, single speed scroll compressors provide water for pool/spa heating, radiant floor, snow melt, aquaculture and process water installations. It comes with our industry leading Aurora Advanced Controls, enabling two-way communication and energy, performance, and refrigeration monitoring. Brazed plate heat exchangers allow efficiency in a compact unit. This Aston Series unit uses R-410A refrigerant.

**FORCED AIR ALL-IN-ONE UNITS**

**FORCED AIR / HYDRONIC COMBO**

**INDOOR/OUTDOOR SPLIT UNITS**



**ASTON ADVANCED SERIES**

One of our most efficient units

**ASTON SERIES**

One of our most efficient units

**MAGNOLIA PLUS SERIES**

Combining value & performance

**CYPRESS SERIES**

Heating, cooling & radiant heat

**ASTON ADVANCED SERIES INDOOR SPLIT**

Indoor versatility & efficiency

**ASTON SERIES INDOOR SPLIT**

Indoor versatility & efficiency

**ASTON ADVANCED SERIES OUTDOOR SPLIT**

Outdoor versatility & efficiency

**ASTON SERIES OUTDOOR SPLIT**

Outdoor versatility & efficiency

<b>SIZES</b>	2 thru 6 ton dual capacity (5 sizes)	1 thru 6 ton single speed (9 sizes) 2 thru 6 ton dual capacity (5 sizes)	2 thru 6 ton dual capacity (5 sizes)	3 thru 6 ton (4 sizes)	2 thru 6 ton dual capacity (5 sizes)	2 thru 6 ton single speed (7 sizes) 2 thru 6 ton dual capacity (5 sizes)	2 thru 6 ton dual capacity (5 sizes)	2 thru 6 ton dual capacity (5 sizes)
<b>EFFICIENCY: PART LOAD</b> <i>AHRI 13256-1 (GLHP) Closed loop</i>	3.9 - 4.8 COP 24.9 - 28.0 EER	3.9 - 4.8 COP 24.9 - 28.0 EER	3.7 - 4.1 COP 20.6 - 22.3 EER	4.0 - 4.2 COP 21.0 - 25.7 EER	3.8 - 4.4 COP 20.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER
<b>EFFICIENCY: FULL LOAD</b> <i>AHRI 13256-1 (GLHP) Closed loop</i>	3.7 - 4.2 COP 17.6 - 22.0 EER	3.7 - 4.2 COP 17.6 - 22.0 EER	3.4 - 3.8 COP 15.5 - 16.5 EER	3.7 - 3.9 COP 16.1 - 18.7 EER	3.3 - 4.0 COP 15.0 - 19.9 EER	3.3 - 4.0 COP 15.0 - 19.9 EER	3.4 - 3.9 COP 15.0 - 17.1 EER	3.4 - 3.9 COP 15.0 - 17.1 EER
<b>REFRIGERANT</b>	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
<b>COMPRESSOR</b>	Scroll (dual capacity)	Scroll (single speed & dual capacity)	Scroll (dual capacity)	Scroll (dual capacity)	Scroll (dual capacity)	Scroll (single speed & dual capacity)	Scroll (dual capacity)	Scroll (dual capacity)
<b>BLOWER</b>	ECM variable speed 5-Speed ECM	ECM variable speed 5-Speed ECM Optional PSC single speed except in dual capacity units	5-Speed ECM	ECM variable speed	ECM when mated to the GeoStar variable speed blower air handler.	ECM when mated to the GeoStar variable speed blower air handler.	ECM when mated to the GeoStar variable speed blower air handler.	ECM when mated to the GeoStar variable speed blower air handler.
<b>CABINET CONFIGURATIONS</b>	Vertical top flow Vertical bottom flow Horizontal end or side discharge All left or right return	Vertical top flow Vertical bottom flow Horizontal end or side discharge All left or right return	Vertical top flow Horizontal end or side discharge All left or right return	Vertical top flow All left or right return	Compact cube	Compact cube	Compact outdoor unit	Compact outdoor unit
<b>STAGES (* with aux.)</b>	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool
<b>CONTROL</b>	Aurora Advanced Controls with energy, refrigeration, and performance monitoring	Aurora Base Controls	Aurora Base Controls	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Aurora Advanced Controls	Base Controls	Aurora Advanced Controls	Base Controls
<b>AIR COIL</b>	All-Aluminum	All-Aluminum	All-Aluminum	All-Aluminum	All Aluminum	All Aluminum	All Aluminum	All Aluminum
<b>HOT WATER GENERATION</b>	Optional Internal mount pump	Optional Internal mount pump	Optional Internal mount pump	Optional External mount pump	Optional Internal mount pump	Optional Internal mount pump	Not Available	Not Available
<b>AUXILIARY HEAT</b>	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	Depends on air handler Dual fuel option	Depends on air handler Dual fuel option	Depends on air handler Dual fuel option	Depends on air handler Dual fuel option
<b>ZONE CONTROL</b>	IntelliZone2 (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 24V (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 (up to 4 zones)
<b>ENERGY STAR RATED</b>	Yes—All ECM models and most PSC models	Yes—All ECM models and most PSC models	Yes — All sizes	Yes—All sizes	Yes—Most sizes (If installed with GeoStar air handler or A-coil)	Yes—Most sizes (If installed with GeoStar air handler or A-coil)	Yes—Most sizes (If installed with GeoStar air handler or A-coil)	Yes—Most sizes (If installed with GeoStar air handler or A-coil)

## SINGLE HYDRONIC UNITS



**ASTON ADVANCE SERIES  
SINGLE HYDRONIC**  
Single hydronic add-on



**ASTON SERIES  
SINGLE HYDRONIC**  
Single hydronic add-on



**ASTON ADVANCED SERIES  
WITH OPTIHEAT**  
Single high temperature hydronic



**ASTON ADVANCED SERIES  
DUAL HYDRONIC**  
Dual hydronic add-on

<b>SIZES</b>	1½ thru 6 tons (6 sizes)	1½ thru 5 tons (6 sizes)	3 thru 6 ton single speed (3 sizes)	8 thru 15 tons (4 sizes)
<b>EFFICIENCY: PART LOAD</b> <small>AHRI 13256-1 (GLHP) Closed loop</small>	N/A - Single speed units only	N/A - Single speed units only	N/A - Single speed units only	3.3 - 3.5 COP 18.4 - 22.0 EER
<b>EFFICIENCY: FULL LOAD</b> <small>AHRI 13256-1 (GLHP) Closed loop</small>	2.9 - 3.1 COP 14.0 - 17.5 EER	2.9 - 3.1 COP 14.0 - 17.5 EER	3.2 - 3.3 COP 16.1 EER	2.7 - 3.1 COP 15.8 - 16.8 EER
<b>REFRIGERANT</b>	R-410A	R-410A	R-410A	R-410A
<b>COMPRESSOR</b>	Scroll (single speed)	Scroll (single speed)	Vapor injected scroll (single speed)	Scroll (single speed)
<b>BLOWER</b>	None	None	None	None
<b>CABINET CONFIGURATIONS</b>	Compact unit	Compact unit	Compact unit	Compact unit
<b>STAGES</b> (* with aux.)	1 heat, 1 cool	1 heat, 1 cool	1 heat, 1 cool	1 heat, 1 cool
<b>CONTROL</b>	Aurora Advanced Controls	Aurora Base Controls	Aurora Advanced Controls	Microprocessor Mode, status & fault lights
<b>AIR COIL</b>	N/A	N/A	N/A	N/A
<b>HOT WATER GENERATION</b>	Optional. External mount pump Not available on 1½ & 2½ ton	Optional. External mount pump Not available on 1½ & 2½ ton	Optional. External mount pump Not available on 1½ & 2½ ton	N/A
<b>AUXILIARY HEAT</b>	N/A	N/A	N/A	N/A
<b>ZONE CONTROL</b>				
<b>ENERGY STAR RATED</b>	Yes—Most Models	Yes—Most Models	Yes	Yes—Select Models

# ACCESSORIES



## GEOTHERMAL STORAGE TANK

GeoStar geothermal storage tank is simply the best way to capture and store preheated water from your unit. Engineered specifically for your GeoStar geothermal system, the storage tank includes unique features that make installation and operation easy. The storage tank is to be used in series with another hot water heater.

## ASTON SERIES SAH AIR HANDLER

Our air handlers were engineered specifically for use with a GeoStar geothermal system and will provide unmatched compatibility. When combined, our air handlers enable nearly all the benefits of our packaged units with the flexibility of separate components.

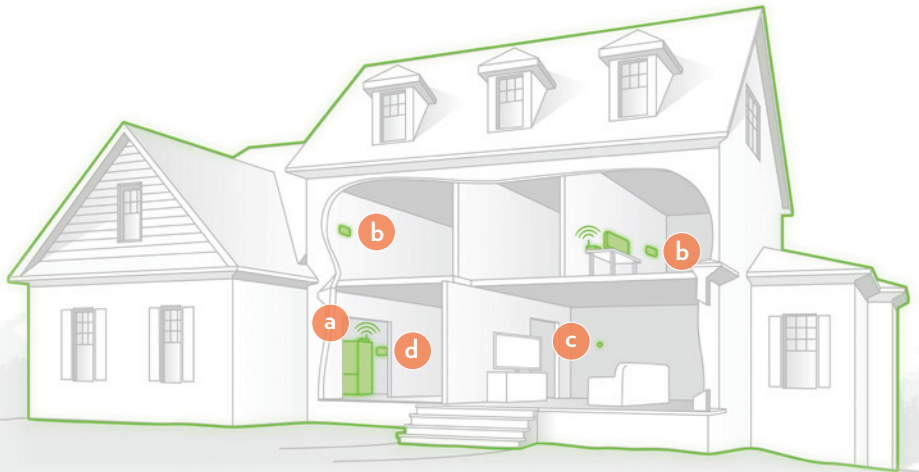
## INTELLIZONE2

The IntelliZone2 works in unison with our Aurora controls and allows for control of up to six different zones on one GeoStar system. It gives you the power to condition where and when you choose—providing precise control over your indoor environment.

## SYMPHONY WEB-ENABLED HOME COMFORT PLATFORM

Imagine a platform that lets you control your home's comfort from any web-enabled smart phone, tablet, or computer and can also provide detailed feedback of your comfort system in real-time. That's Symphony! Symphony is a cloud-based platform that connects via Wi-Fi, so there's no software to install. It provides control over the entire geothermal system—not just the temperature as with other 'smart thermostat' systems.

Symphony can also provide peace of mind thanks to its ability to send equipment alerts, service reminders, and notifications to you and your contractor. This means a service tech (through Symphony Contractor Portal) can remotely log into your system to view faults and operating conditions—reducing the need to schedule an in-person service call.



- a. Aurora WebLink
- b. Symphony Thermostat
- c. Invisible Thermostat Capability
- d. Advanced Zoning System

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BR1510MG 11/22