

vara 2 plus

Vara 2 Plus Forced Air 3, 4, and 5 Ton Geothermal Heat Pumps



An ECONAR® Vara 2 Plus heat pump by Enertech can supply your heating and cooling needs for much less than the cost of fossil fuels – in many regions by as much as 70 percent! You are also contributing to a greener, healthier environment because geothermal heating and cooling comes from energy already stored in the ground. Plus, it uses R410A refrigerant which is chlorine free and doesn't harm the earth's protective layer. Installing your system is equivalent to planting 750 trees or removing two cars from our highways.* *Save money, save energy and help save the environment!*

The Vara 2 Plus is engineered with ColdClimate technology which provides maximum comfort and savings in freezing temperatures. Like all ECONAR units, it is ENERGY STAR qualified so that you can take advantage of tax credits as they are available.

Three heating and two cooling stages provide the right amount of comfort when you need it. In the **heating mode**, the first stage of operation supplies the energy needed for minimal heating. As the temperature drops, the second stage kicks in to provide additional warmth. When temperatures go to the extreme, an optional third stage adds even more heat. In the **cooling mode**, the first stage provides cooling during warmer weather and a second cooling stage kicks in when the temperatures get really hot. The multi-stage **scroll compressor** in the Vara 2 Plus controls heating and cooling to the building's load – providing full capacity heating or cooling at higher efficiencies and maximum savings.

The fan's operation supports the heating or cooling stage. As the heating/cooling requirement increases, so does the fan speed, providing the right amount of air flow. That's because the Vara 2 Plus uses a **state of the art Electronically Commutated Fan Motor (ECM)** that provides significant cost savings compared to the partial load running of traditional single speed fan motors. You can enjoy the benefit of a cleaner home and some relief from airborne irritants without spending a lot on fan operating costs.

**U.S. Department of Energy (DOE)*

Features & Benefits

Compressor

A hermetically sealed, two-stage Compliant Scroll™ compressor by Copeland® delivers the highest efficiency and lowest sound level in the industry.

Blower

A variable speed Electronically Commutated Motor (ECM) provides quiet, efficient air circulation.

Thermostat (Standard)

3-stage heat and 2-stage cool electronic thermostat included with every unit.

Refrigerant

Utilizes R 410A refrigerant which is chlorine-free and doesn't harm the earth's ozone layer.

Hot Water Generator (Optional)

A double-wall desuperheater coil saves up to 65% on annual domestic hot water heating costs.

Air Heat Exchanger

High-density technology air coil with copper tubing in aluminum fins designed for ColdClimate regions provides the highest heating output in the industry at comparable cooling capacities. Includes Allergy Gold air filter for a cleaner system and homeowner comfort. Has a front load filter rack with door for easy maintenance.



ECONAR®



Our ENERGY STAR® qualified heat pumps qualify for the 30% federal tax credit.

*Check www.gogogeo.com for current list



Features & Benefits

Electrical Controls

Compressor lockout is activated by electronic monitoring of low and high pressure for maximum system protection. Compressor and fan motors are staged for a softer start.

Electric Heater (Standard)

Standard electric heater provides emergency heat or third stage assist.

Reversing Valve

All copper with low-pressure drop for maximum efficiency.

Cabinet

Standard vertical top air or optional vertical bottom air discharge configurations; or standard horizontal right-end or optional front-right air discharge. Fully insulated baked-on powder epoxy finish over galvaneal metal resists corrosion.

Water Heat Exchanger

Brazed plate stainless steel heat exchangers provide maximum heat exchange at minimum pump pressure for reduced pumping costs.

Air Pad (Standard)

Included for even quieter operation.

Thermostatic Expansion Valve

State of the art thermostatic expansion valve provides precise refrigeration control under a wide range of conditions.

Charge Optimizer

Balances heating and cooling charge allowing optimum ColdClimate capacities and efficiencies.

Vara 2 Plus Performance Ratings

Blower Speed Settings

ARI/ISO 13256-1 Ground Loop				Heating 32°F EWT		Cooling 77°F EWT		Heating 41°F EWT		Cooling 68°F EWT		SPEED	MODEL		
Models	Stage	CFM	GPM	BTU/hr	COP	BTU/hr	EER	BTU/hr	COP	BTU/hr	EER		380/381 Series	480/481 Series	580/581 Series
EV 380/381	1	910	9	--	--	--	--	23,300	3.9	28,900	22.0	Low (G)	520	740	800
	2	1,180	9	30,500	3.5	38,000	14.4	--	--	--	--		910	1,295	1,400
EV 480/481	1	1,295	12	--	--	--	--	31,500	3.9	40,000	23.9	Medium Low (Y, Y1)	910	1,295	1,400
	2	1,680	12	39,800	3.4	49,000	15.8	--	--	--	--		1,180	1,680	1,800
EV 580/581	1	1,400	15	--	--	--	--	37,500	3.8	49,000	22.5	Medium High (Y2)	1,180	1,680	1,800
	2	1,800	15	48,600	3.4	60,000	15.5	--	--	--	--		1,300	1,800	1,900
												High (W1, W2, E)	1,300	1,800	1,900

Technical data subject to change. Due to continuous product enhancements, please refer to www.gogogeo.com for the most current performance data.

