

R410A



# Ultra

## Ultra Forced Air Vertical 2, 3, and 4 Ton Geothermal Heat Pumps

An ECONAR® Ultra 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 stored in the ground. 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 Ultra forced air heat pump is a no-frills workhorse that offers a single stage compressor and single speed blower. It is backed by solid engineering that provides heating and cooling comfort for years to come.

Designed with exclusive ColdClimate technology, the Ultra 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.

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

### Features & Benefits

#### Compressor

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

#### Blower

A standard high efficiency single speed motor or optional variable speed Electronically Commutated Motor (ECM) provides quiet, efficient air circulation.

#### Air Heat Exchanger

High-density air coil with copper tubing in aluminum fins designed for ColdClimate regions provide the highest heating output in the industry at comparable cooling capacities.

#### 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.

#### Hot Water Generator (Optional)

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

#### Electric Heater (Optional)

Optional electric heater provides emergency heat or second stage assistance.

#### Refrigerant

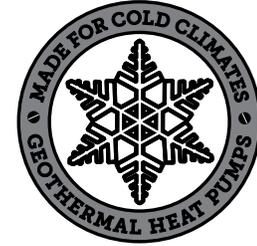
Utilizes R 410A refrigerant which is chlorine-free and will not harm the earth's ozone layer.



**ECONAR®**



**Our ENERGY STAR<sup>®</sup> qualified heat pumps qualify for the 30% federal tax credit.**



## Features & Benefits

### Cabinet

Standard top air discharge or optional bottom air discharge configurations. Fully insulated baked-on powder epoxy finish over galvanneal metal resists corrosion.

### Reversing Valve

All copper with low-pressure drop for maximum efficiency.

### Water Heat Exchanger

Brazed plate stainless steel heat exchanger provides maximum heat exchange at minimum pumping pressure for reduced operating costs.

### 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.

### Filter Dryer

Assures a clean, dry refrigeration circuit.

### Air Pad (Optional)

Floor cushion available for even quieter operation.

## Ultra Performance Ratings

Ground Loop (ARI/ISO 13256-1)			Heating (32°F EWT)		Cooling (77°F EWT)	
Models	CFM	GPM	BTU/hr	COP	BTU/hr	EER
EV 170	625	5	14,500	3.6	28,000	17.4
EV 270/271	900	8	22,300	3.6	28,000	18.0
EV 370/371	1,100	9	31,000	3.6	35,000	17.1
EV 470/471	1,550	12	41,000	3.6	48,000	16.1

\*with ECM blower. 16.1 EER with PSC blower.

Ground Water (ARI/ISO 13256-1)			Heating (50°F EWT)		Cooling (59°F EWT)	
Models	CFM	GPM	BTU/hr	COP	BTU/hr	EER
EV 170	625	5	19,300	4.0	20,400	23.9
EV 270/271	900	8	28,000	4.2	32,000	25.0
EV 370/371	1,100	9	36,500	4.1	36,000	21.1
EV 470/471	1,550	12	49,500	4.1	50,100	20.1

\*with ECM blower. 20.1 EER with PSC blower.

Technical data subject to change. Due to continuous product enhancements, please refer to [www.gogogeo.com](http://www.gogogeo.com) for the most current performance data.

