



Air Coil Unit



Compressor



Air Handling Unit

two stage

Two Stage Split System

Forced Air 3, 4 and 5 Ton Geothermal Heat Pumps Dual Fuels and Air Handler Split Systems

An ECONAR® Two Stage Split geothermal 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 Two Stage Split System is engineered with ColdClimate Technology to provide 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.

Enertech offers two types of ECONAR split units; your geothermal dealer can help you pick the one that's right for you.

Dual Fuel Split System: Three heating and two cooling stages provide the right amount of comfort when you need it.

The Dual Fuel System is made up of a compressor and an air coil that work with your existing fossil fuel furnace and ductwork. 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, the furnace engages to add 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 **scroll compressor** in the Two Stage Split System controls heating and cooling to match the building's load – providing full capacity heating or cooling at higher efficiencies and maximum savings.

Air Handler Split System: Offers the safety, comfort and flexibility of geothermal

This type of split system is made up of a compressor and an air handler unit – no conventional fossil fuel furnace is needed. Heating and cooling is transferred through the air handling unit that can be placed anywhere in the home; it can use existing or new ductwork depending on where it is mounted. It provides many installation options from new construction to retrofits and is designed for attics, crawl spaces or other spots where space is limited or an all-in-one system could be hard to install. The air handler operation matches 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 this system uses a **state of the art Electronically Commutated Fan Motor (ECM)** to provide significant cost savings compared to the partial load running of 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)*



ECONAR®



ENERGY STAR® Rated Performance.

Features & Benefits

Compressor

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

Air Heat Exchanger

High-density technology air coil with copper tubing in aluminum fins uses ColdClimate technology to provide the highest heating output in the industry at comparable cooling capacities.

Dual Fuel/Air Coil Unit

Uses existing fossil fuel furnace air distribution system and blower. Vertical or horizontal mounted

25.3w x 22.5d x 23h

Air Handler Unit

Standard single speed PSC or optional multi-speed ECM blower motor.

Vertical models available with factory installed slide-in heater.

Field adjustable for vertical or horizontal installation.

25.3 w x 26.5d x 46.1 h

Manages heating and cooling charge allowing optimal ColdClimate capacities and efficiencies.

Electrical Controls

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

Options Include:

Desuperheater

Cupronickel Heat Exchanger

Two Stage Split System Performance Ratings

ARI/ISO 13256-1 Ground Loop				Heating 32°F EWT		Cooling 77°F EWT		Heating 41°F EWT		Cooling 68°F EWT	
Models	Stage	CFM	GPM	BTU/hr	COP	BTU/hr	EER	BTU/hr	COP	BTU/hr	EER
EV 380/381	1	910	9	--	--	--	--	23,300	3.9	28,900	22
	2	1,180	9	30,500	3.5	38,000	14.4	--	--	--	--
EV 480/481	1	1,295	12	--	--	--	--	31,500	3.9	40,000	23.9
	2	1,680	12	39,800	3.4	49,000	15.8	--	--	--	--
EV 580/581	1	1,425	15	--	--	--	--	37,500	3.8	49,000	22.5
	2	1,850	15	48,600	3.4	60,000	15.5	--	--	--	--
ARI/ISO 13256-1 Ground Water				Heating 50°F EWT		Cooling 59°F EWT		Heating 50°F EWT		Cooling 59°F EWT	
Models	Stage	CFM	GPM	BTU/hr	COP	BTU/hr	EER	BTU/hr	COP	BTU/hr	EER
EV 380/381	1	910	9	--	--	--	--	27,000	4.4	32,000	27.0
	2	1,180	9	38,000	4.1	43,000	19.0	--	--	--	--
EV 480/481	1	1,295	12	--	--	--	--	35,000	4.2	41,000	27.0
	2	1,680	12	50,000	4.0	53,000	19.0	--	--	--	--
EV 580/581	1	1,425	15	--	--	--	--	44,000	4.3	51,000	26.9
	2	1,850	15	62,000	3.9	64,000	19.4	--	--	--	--

Note: The air blower in a Dual Fuel application needs a minimum of two stages of air flow.

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

