

R410A



Air Coil Unit



Compressor



Air Handling Unit

Ultra Split System

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

Green, renewable energy plus savings of up to 70 percent on heating and cooling

An ECONAR Ultra Split System can supply your heating and cooling needs for much less than the cost of conventional energy sources such as natural gas or propane—in most regions by as much as 70 percent! You're also contributing to a greener, healthier environment because geothermal heating and cooling comes from energy already stored in the ground. Save money, save energy!

Here's how it works: Unlike air temperatures that can go from one extreme to the other, the ground eight feet below the surface has a constant temperature of about 50 degrees all year long. In the winter, the heat pump transfers this energy from the ground into your home. With a small amount of electricity, the system boosts the temperature to a higher, more comfortable level so that you can feel warm on the coldest of days. In the summer, it acts as an air conditioner by pulling heat and humidity out of the indoor air. Using less energy than fossil fuel systems, the ECONAR geothermal heat pump keeps you comfortable in any weather, any season.

All Ultra Split Systems are designed to use R410A, an environmentally friendly refrigerant. They are engineered with ColdClimate technology which is designed especially for regions with sub-freezing temperatures. This special feature found in ECONAR geothermal heat pumps makes supplemental heating a choice, not a necessity.

A Dual Fuel Split System gives you energy savings and comfort without giving up your existing furnace.

If you want the economical advantage and comfort of geothermal but still have a conventional furnace, the ECONAR Dual Fuel System is the answer. It is comprised of a compressor unit and an air coil that work with your existing fossil fuel furnace and duct work. The system automatically selects the most efficient fuel source needed (split system or furnace) to provide the best energy savings and comfort all year long. You don't need a separate air conditioner because the split system can provide cooling and dehumidification during the summer. If desired, you can add supplemental water heating with an optional desuperheater.

An Air Handler Split System offers the safety, comfort and flexibility of geothermal.

Another type of split system is made up of a compressor and an air handler unit—no conventional gas or propane 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 duct work 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.



ECONAR®



Split System Highlights

Compressor Unit

A hermetically sealed Compliant Scroll™ compressor by Copeland delivers the highest efficiency and lowest sound level in the industry. It has fewer moving parts to improve reliability and decrease the likelihood of service calls.

Compact Design

21.3" w x 26.5" d x 27.5" h

Direct mountable PumpPAK.

Field configurable for Dual Fuel applications.

Air Heat Exchanger (Air Coil Unit):

Dual Fuel

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.

Uses existing fossil fuel furnace air distribution system and blower.

25.3" w x 22.5" d x 23" h

Vertical or horizontal mounting

Air Heat Exchanger (Air Handler Unit):

Split System

Standard single speed PSC or optional multi-speed ECM

25.3" w x 26.5" d x 46.1" h

Vertical models available with factory installed slide in heater

Field adjustable for vertical or horizontal install

Refrigerant

Both the dual fuel and split system units use R410A refrigerant, which is ozone layer friendly.

Two thermal expansion valves for optimal refrigerant control. The charge optimizer balances refrigerant charge in heating and cooling modes.

Electrical Controls

Compressor lockout is activated by electronic monitoring of low or high pressure for maximum system protection.

Ultra Split System Performance Ratings

ARI/ISO 13256-1 Ground Loop			Heating 32°F EWT		Cooling 77°F EWT	
Models	CFM	GPM	BTU/hr	COP	BTU/hr	EER
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	17.1*

*3.6 COP and 17.1 EER with ECM blower motor. 3.5 COP and 16.1 EER with PSC blower motor.

ARI/ISO 13256-1 Ground Water			Heating 50°F EWT		Cooling 59°F EWT	
Models	CFM	GPM	BTU/hr	COP	BTU/hr	EER
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	21.1**

**With ECM blower motor. 20.1 with PSC blower motor.

Options Include:

Desuperheater

Cupronickel Heat Exchanger



Every Unit is ENERGY STAR® Qualified.

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

