

**1**
**FIRST EUROPEAN MANUFACTURER WITH COPELAND INVERTER TECHNOLOGY**

Developed specifically to be used in its Scroll compressors, it provides unbeatable performance and makes them the best in the market. The incorporation of this technology provides advantages that are unattainable with traditional heat pumps:

- More compact and economical installations since buffer tanks are not needed.
- Lower electricity consumption.
- Greater durability and reliability.
- More comfort.

**4**
**SINGLE PHASE POWER SUPPLY**

The prestigious AIT (Austrian Institute of Technology) confirmed our heat pumps as **the ones with the highest yields in the market of the single phase geothermal heat pumps.**

**5**
**HIGH EFFICIENCY (A CLASS) AND VARIABLE SPEED CIRCULATION PUMPS**

Circulation pumps, both primary and secondary circuit, adjust their speed to the demand for heating or cooling, consuming at all times exactly what is needed and ensuring a greater efficiency and at a lower cost.

Besides they are high efficiency, ie, energy class A, and its great power means it is not necessary to add expensive auxiliary pumps.

**6**
**ALFA LAVAL ASYMMETRICAL PLATE HEAT EXCHANGERS**

Latest development in plate heat exchangers, its asymmetrical design and its innovative system Equalancer for the distribution of the refrigerant allows savings up to 15% in the exchange surface and makes them the best in the market.

**7**
**STAINLESS STEEL DHW TANK INTEGRATED**

With a capacity of 170 liters, its corrugated spiral coil exchanger increases the contact surface (up to 2.2 m<sup>2</sup>) improving the heat transfer and allowing very short heating times. On the other hand the basic models (without DHW tank) incorporate three-way valve for the production of heating / DHW.

**10**
**PASSIVE COOLING (MODULES 2 AND 4)**

The heat pump includes a third heat exchanger and two 3-way valves for the production of passive cooling, so no need to add anything else.

**13**
**OUR OWN CONTROL STRATEGIES**

Operation adapted to the needs of each installation automatically.

**2**
**COPELAND SCROLL COMPRESSORS**

Specially designed for the Inverter technology **and award winners of the year's best technology in NEW YORK AHR EXPO 2014.**

**3**
**ELECTRONIC EXPANSION VALVE**

It optimizes the operation and efficiency of our geothermal heat pumps.


**8**
**ACTIVE COOLING BY REVERSING THE CYCLE (MODULES 3 AND 4)**

The reverse cycle system used by Ecoforest geothermal heat pumps allows heating and cooling to be carried out with the same equipment without needing to install additional external modules that decrease the efficiency and increase the installation costs.

**9**
**HTR TECHNOLOGY (HIGH TEMPERATURE RECOVERY SYSTEM) PATENTED**

Based on the introduction of a third heat exchanger intended only for DHW production, this innovative technology allows the production of heating/cooling and DHW simultaneously and temperatures up to 70 °C in the DHW tank without any electrical support .

**11**
**RECOVERY OF THE HEAT GENERATED IN THE INVERTER**

It provides additional and free power that contributes decisively to achieve the highest COP's reached in heat pumps.

**12**
**SOFT STARTS**

Characteristic consumption peaks of traditional pumps when the compressor starts are avoided.

**14**
**EXPANSION VESSELS INTEGRATED**

Contributes to a more compact and economical installation.

**15**
**REFRIGERANT R410A**

The best refrigerant for heat pumps, high efficiency and virtually no environmental impact.