













HERA R290

Natural refrigerant Heat Pump



R290     

-  **EC Fans**
High efficiency EC fans, electronically commutated, useful to reduce energy power consumption.
-  **Advanced control**
The most advanced technology available, with proprietary optimized software specifically designed for this application.
-  **Inverter**
Inverter driven compressor, that allows to significantly increase the efficiency of the unit at partial loads and to reduce electrical power consumption.
-  **ATEX compressor**
Ex-rated semi-hermetic reciprocating compressor, designed to ensure reliability and safety.
-  **Gas detector**
ATEX certified gas detector installed inside the compressor's box, ensures the activation of adequate safety measures in case of R290 leakage.
-  **ATEX fan**
Ex-rated centrifugal fan, which ensures emergency ventilation inside the compressor's box in case of R290 leakage.

First R290 heat pump with full variable regulation

EFFICIENCY

HERA heat pump is designed to offer a constant modulation of cooling and heating capacity achieved by inverter driven compressor: in this way the energy consumption is substantially reduced at partial loads.

The unit complies with **Eco-design directive (Tier 2- 2017** - according to European Regulation N. 813/2013) and **Eco-Label directive (Class A*** - according to European Regulation N. 811/2013).

OPTIMIZED DEFROST

The advanced control system allows the implementation of an innovative optimization logic, with dynamic set points and extremely stable control so as to ensure the best timing, starting and duration of defrost cycles. This logic, specifically developed by Euroklimat, allows the unit to be efficient also at **very low ambient temperature (down to -20 °C)**.

SAFETY

R290 components are positioned in such a way to be completely isolated from the electrical panel. The use of EX-rated components, united with the safety measures activated in case of R290 leakages detected by the gas sensor, ensures a **double level of safety**.



The energy-efficient and natural solution for Coldest climates



Innovation

- Designed and tested to work at **-20°C ambient temperature**
- Innovative and customized software that allows to manage dynamically and efficiently **defrost cycles**
- Winner of **Innodriver** European call for innovation



Efficiency

- Extremely **high-efficiency inverter** compressor technology
- **Eco-Design** Ready
- **Energy efficiency Class** according to Eco Label directive: **A+**



Green technology

- R290 (**Propane**): Natural and efficient refrigerant suitable for heat pumps applications
- Very Low GWP (**GWP_{R290} = 3**) suitable to be used up to 2030 without any restriction connected to F-Gas Regulation



Safety

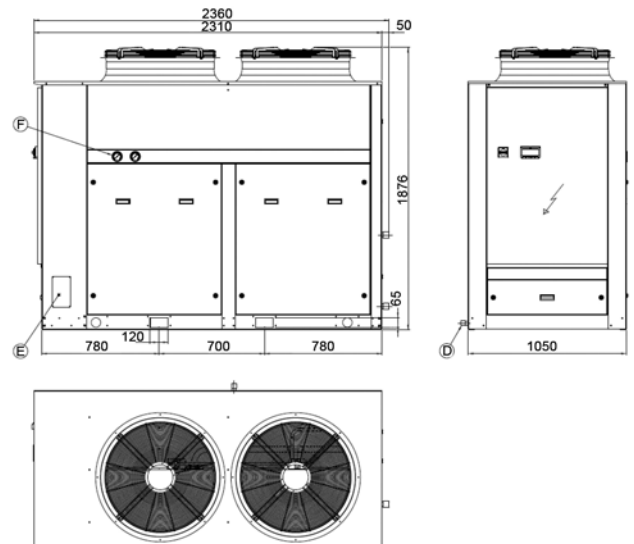
- Use of **ATEX certified components** where necessary
- Ex-rated Gas detector, able to ensure a **double level of safety**
- Ex-rated extractor fan, able to achieve **adequate level of ventilation** in case of R290 leakage



HERA - R290 Heat Pump		
Technical data		
Unit performance – Heating⁽¹⁾		
Heating capacity	[kW]	58
Total Power input	[kW]	17,9
COP	[-]	3,25
Unit performance – Cooling⁽²⁾		
Cooling capacity	[kW]	49
Total Power input	[kW]	17,2
EER	[-]	2,83
Dimensions and weights		
Length (L)	[mm]	2360
Depth (D)	[mm]	1050
Height (H)	[mm]	1880
Shipment weight	[kg]	660

REFERENCE CONDITIONS

- (1) T_{amb} : 7°C
RH: 87%
 $T_{in\ water}$: 40°C
 $T_{out\ water}$: 45°C
- (2) T_{amb} : 35°C
 $T_{in\ water}$: 12°C
 $T_{out\ water}$: 7°C



The right solution for **Comfort Applications** at all latitudes

