



AIR COOLED MULTIFUNCTION MODULAR UNITS FOR 4-PIPE SYSTEMS FOR OUTDOOR INSTALLATION

WITH SCROLL COMPRESSORS AND AXIAL FANS

Cooling capacity from 72 kW / Heating capacity from 101 kW



















VERSIONS

GPE Kp - Multifunction unit

EVEREST 290 - GPE Kp series air/water polyvalent unit for modular installation. It is particularly suitable for residential, commercial, and industrial applications that require the simultaneous production of hot water at high temperatures and chilled water, at the highest efficiency levels possible.

This unit is specifically designed to reach optimal efficiency levels in heating mode, being able to operate down to outdoor air temperatures of -20°C and ensuring hot water production up to 65°C.

The unit design minimizes overall dimensions while ensuring high cooling performance. This is achieved through the use of innovative and high-quality components.

Scroll compressors are optimized for high compression ratios. They are used in tandem configuration in conjunction with electronic control of the airflow rate on the source side.

This enables the achievement of high seasonal efficiency ratings.

The refrigerant used is Propane, a non-toxic hydrocarbon, even at high concentrations, with almost a null ozone depletion potential, negligible global warming potential and thermodynamic properties which allow to reach high efficiency values.

All the units are completely factory assembled, tested and supplied with refrigerant non-freezing oil charge; so, once on installation site, they only need to be positioned and connected to the hydraulic and power supply lines.

Units CE certified in compliance with the European regulation 813/2013, average conditions, low temperature, fixed



MAIN COMPONENTS

FRAME

The structure, strong and compact, is made of a base and frame in high-thickness galvanized steel elements assembled with stainless steel rivets. All galvanized steel parts placed externally are protected on the surface level with an oven powder coating system in RAL 7035 colour. The basement is designed in order to allow the unit to be forked and handled by standard lifting devices. The refrigerant circuit (except for the source side exchanger) is hermetically sealed from the rest of the unit. Internally, it also contains a refrigerant leakage sensor. In case of severe sensor alarm, the power supplied to all equipment is interrupted, except for the ATEX extraction fans, which activate in order to remove the potentially explosive atmosphere from the cabinet.

COMPRESSOR

The compressors, specially designed to operate with R290, are Scroll type with orbiting spirals, optimized for heat pump operating mode and high compression ratios. They are installed in tandem configuration, mounted on rubber dampers, and equipped with direct-start engines cooled by the suctioned refrigerant gas. They are also fitted with built-in thermistor protection with manual reset, which safeguards them from overloads. The crankcase oil sump, PAG type, is equipped with a heating resistor. The compressors terminal block has an IP54 protection rating. Activation and deactivation of the compressors are controlled by the on-board microprocessor, which regulates the thermo-cooling power delivered.

HEAT EXCHANGER

The heat exchanger is stainless steel "single-circuit" plate type, thermally insulated by a flexible closed-cell insulating mat of high thickness and UV-resistant. The heat exchanger is also equipped with a safety flow switch on the water flow side that does not allow the unit to operate if there is a lack of water in the heat exchanger.

COILS

The coils are made with micro-finned copper pipes arranged in staggered rows and mechanically expanded inside an aluminium-finned pack with hydrophilic treatment. The fin shape ensures maximum heat exchange efficiency. The innovative mini-channel technology, besides guaranteeing maximum performance in terms of heat exchange, allows the refrigerant charge to be at the minimum necessary values for the correct operation of the unit. The maximum operating pressure on the refrigerant side of the heat exchange coils corresponds to 31 bar (relative).

FANS

Axial fans, with external rotor directly coupled to a threephase electronically commutated motor (EC) they have the possibility of a continuous regulation of the speed by means of a 0-10V signal completely managed by the microprocessor. Aluminum blades with wings profile are suitably designed to avoid any turbulence in the air detachment zone, granting in this way the max efficiency with the minimum noise level. The fan is equipped with galvanized steel protection grid painted after the construction. Thanks to a more accurate adjustment of air flow, they allow operation of the unit with external temperature down to -20 °C.

COOLING CIRCUIT

The cooling circuit includes a 4-way cycle reversing valve, liquid receiver and liquid/gas separator. It is provided with electronic thermostatic expansion valves operating in parallel (to allow the unit to work constantly along the entire working range). The circuit also includes a liquid passage and humidity indicator, filter drier, safety valve, high-pressure switches with manual and automatic reset, and service valve for the addition of the refrigerant and anti-freeze probe.

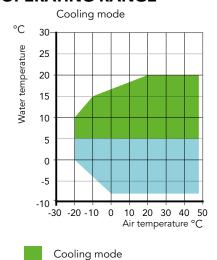
HYDRAULIC CIRCUIT

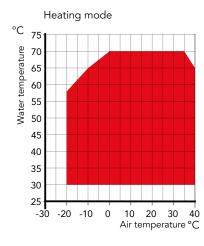
The hydraulic circuit consists of a 2-pole centrifugal electric pump. It allows water to circulate inside the unit, while a check valve prevents the recirculation in case of a switched-off pump and unit combined with others running on the same water circuit. The water pipes inside the unit and the Victaulic joints are factory insulated with thermally insulating material of proper thickness.

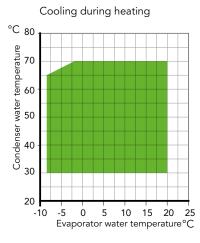
ELECTRICAL BOARD

The electrical board is designed in accordance with the European standards 61439-1 EN 60204. Its structure is watertight and it contains all the components of the control system, those required for starting the unit, and the thermal protection of the electric motors, connected and factory-tested. It houses all the power and control components: the microprocessor electronic board, with keyboard and display for the visualization of the various functions, main disconnecting switch for the door lock, and isolation transformer for the auxiliary circuit supply. It also contains circuit breakers, fuses, and contactors for the compressor and fan motors, the terminals for the cumulative alarms and remote ON/OFF, the terminal board of the spring-type control circuits, and the possibility of connection to BMS management systems. In case of a lack of ventilation in the compressor compartment, the unit blocks all the electrical drives.

OPERATING RANGE







Не

Heating mode



Cooling with glycol



ACCESSORIES

Compressors inrush counter Refrigerant leak detector Anti-corrosive electro coating protection of condensing coils ECP Onti-corrosive electro coating protection of condensing coils ECP Onti-tigh pressure double safety valve HRV2 Onti-tigh pressure safety	Everest 290 - GPE Kp Soundproofing jacket on compressors	CI	0
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-	Electronic thermostatic valve	TE	•
Heating cable on internal water pipes VH 0	Brine Version	VB	0
	Heating cable on internal water pipes	VH	0

 $[\]bullet$ Standard, o Optional (on-board), $\, \Diamond \,$ Optional (external kit), $\,$ -- Not available



^{*} Compulsory for modular system

TECHNICAL DATA

Everest 290 - GPE Kp		
Cooling (1)		
Cooling capacity (EN14511)	kW	72,1
Total input power (EN14511)	kW	26,6
Total nominal current	A	51,1
EER (EN14511)		2,71
Vater flow	m³/h	12,3
Pressure drop	kPa	32,4
Circuits	n°	1
Compressors	n°	2
Heating (2)	· · · · · · · · · · · · · · · · · · ·	۷
Heating capacity (EN14511)	kW	86,7
Fotal input power (EN14511)	kW	22,2
Total nominal current	A	44,6
COP (EN14511)	A -	3,91
Nater flow	- m³/h	15,0
Pressure drop	kPa	41,7
•	КГа	41,/
Cooling while heating (3)	kW	79,5
Cooling capacity (EN14511)	kW	
Heating capacity (EN14511)	kW	101,0
Total input power	A	21,5
Current consumption	A	45,4
FER (EN14511)	- m³/h	8,4
Nater flow rate in heating mode	m ^y n kPa	15,0
Pressure drop in heating mode		41,7
Nater flow rate in cooling mode	m³/h	12,3
Pressure drop in cooling mode	kPa	32.5
Refrigerant data R290	<u>.</u>	
Refrigerant charge	kg	6,1
Global warming potential (GWP)		3
Equivalent CO ₂ charge	kg	18,3
Axial fans (2)		
Number	n°	2
Total air flow	m³/h	34120
Total fan power input	kW	1,8
Total fan current	Α	3,4
Veights		
Transport weight	kg	920
Operating weight	kg	935
Dimensions		
_ength	mm	2560
Depth	mm	1100
Height	mm	2450
Sound data		
Sound pressure level (4)	dB(A)	86,5
Sound power level (5)	dB(A)	54,6
Power supply		
/oltage/Phase/Frequency	V/ph/Hz	400/3/50
General electrical data		
Maximum input power	kW	44,0
Maximum input current	Α	79,2
nrush current	А	231,2

⁽¹⁾ Fluid: water - in/out temperature: 12/7°C - air 35°C.
(2) Fluid: water - in/out temperature: 30/35°C - air 7°C - UR.87%
(3) Cold user side: in temperature: 12°C - Nominal flow rate cooling- Hot user side: in temperature: 30°C - Nominal flow rate heating.

⁽⁴⁾ Sound power level in accordance with ISO 3744. (In heating mode at conditions specified in point 2).
(5) Sound pressure level at 10 mt from the unit in free field conditions in accordance with ISO 3744.

EMICON INNOVATION AS ENERGY