Serbatoio caldaia verticale con pompa di calore e scambiatore di calore HPBC 300 lt.

"ALL IN ONE" HEAT PUMP AND STORAGE TANK FOR DOMESTIC HOT WATER PRODUCTION WITH A HEAT EXCHANGERS

AS HPBC 300

Maximum working pressure	7 bar
Energy class	A+
Diameter	600 mm
HP thermal power yield	1.6 kW
Capacity	260 L
Total thermal power	3.1 kW
Heating time	09:44 h:min
Heating time in BOOST mode	04:57 h:min
Heat losses 65°C	105 W
Declared load profile	XL
Water heating energy efficiency in % under average climate conditions	121 %
Electric heating element power	1.5 kW
HP maximum absorption	0.5 kW

Serbatoio caldaia verticale con pompa di calore e scambiatore di calore HPBC - 300 lt.

Min. ÷ max temperature heat pump air intake (90% R.H.)	4÷43 °C
Frequency	50 Hz
Maximum settable temperature in an AUTOMATIC cycle	70 °C
Annual electricity consumption in kWh under average climate conditions	1384 kWh
Power supply	1/N/230 V
Compressor	Rotary
Degree of protection	IPX4
Min. ÷ max temperature installation site	4÷43 °C
Compressor protection	Thermal circuit breaker with automatic reset
Average absorption	0.37 kW
Maximum current in HP	2.3 A
Thermodynamic circuit protection type	Safety pressure switch with automatic reset
Heating element + HP maximum absorption	2.0 kW
Required overload protections	16A T fuse/ 16 A automatic switch characteristic C (to be expected during installation on power supply systems)
Fan	Centrifugal
HP Maximum settable temperature - ECO cycle	56 °C
Ejection outlet diameter	160 mm
Internal protection	Single safety thermostat with manual reset on a resistive element
Revolutions per minute	1420 rpm
Nominal air capacity	350 m³/h
Max. pressure head available	100 Pa

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Motor protection	Internal thermal circuit breaker with automatic reset
Condenser	Wrapped externally not in contact with water
Coolant	R134a
Load	900 g
Water storage capacity	260 L
Max. quantity of hot water that can be used Vmax	342 L
Coil for connection to solar thermal power system	0.96 m²
Coil for connection to an auxiliary heating source	N/A m²
Cathodic protection	2 x Mg anode Ø 32x260 mm
Insulation	50 mm rigid PU
Defrosting	Passive with air
Transport weight	110.2 kg
Sound power Lw (A)	59 dB(A)
Automatic anti-Legionnella disinfection cycle	YES
Height	2004 mm
	2038 mm

Information

"All in one" heat pump and storage tank for domestic hot water production with a heat exchangers

AS HPBC 300

- ERP A+
- Optional connections to solar thermal and photovoltaic systems
- Minimum and maximum temperature of the incoming air:(at 90% R.H): +4 up to +43 ▯ C
- Operation modes - Automatic / Economy / Rapid heating
- Automatic defrost system.
- Anti-Legionellae disinfection cycle
- Low noise levels
- Highly efficient rotary compressor
- Eco friendly refrigerant
- COP 2.8 – 3.1 according to EN16147 Indoor 20 ▯c
- High quality of the materials (e.g. the external cover in PVC can easily replaced in case of damage; high quality tank with 3mm thickness, butt welding, enameling according UNI standards, two sacrificial anodes for the 260 liters and 200 liters versions with additional coil)
- No need for special accessories to assemble the pipes for the air intake and outlet
- Digital input to store surplus energy produced by the photovoltaic system
- Digital input with intelligent "smart grid" mode to optimize the operation of the solar heating system (it avoids energy waste when the solar heating system is activated);
- Possibility to work with timeslots in order to concentrate the energy consumption when the electricity costs less

Serie information

"All in one" heat pump and storage tank for domestic hot water production with a heat exchangers

AS HPBC 300

Heat pump technology is increasingly present in the domestic sector in applications dedicated to the production of sanitary hot water (DHW).

It allows considerable energy savings.

It is the best solution to the problem of lack gas supply.

Installation is easier and faster than for a gas boiler.

Ensures high heating capacity without committing large electrical power.

Suitable for individual residences as well as in condos projects.