

AIR/WATER HEAT PUMP FOR HEATING & COOLING

ESTIA BiBloc R290 Hydrobox



Highlights

- Energy efficiency A+++
- Uses natural refrigerant
- Very quiet outdoor units
- Compact indoor units
- Control panel with 7" color touchscreen



R290 air-to-water heat pumps in BiBloc design for leaving water temperatures up to +70°C, in the capacity range from 4 to 16 kW, for the preparation of hot or cold water. A combination of outdoor unit and Hydrobox for supplying all applications such as hot water tanks, fan coils, radiators, or underfloor heating.

→ Product advantages

- Low operating costs thanks to high COP (Coefficient of Performance) according to EN 14511: up to 5.0 at A7/W35
- Capacity control and DC inverter for high efficiency in partial load operation
- Maximum leaving water temperature up to 70°C at an outside temperature of -10°C enables use in both new buildings and modernization projects.
- Self-optimizing flow rate control thanks to patented hydraulics
- Environmentally friendly, natural refrigerant R290 with a particularly low GWP of 0.02 (GWP = Global Warming Potential)
- Convenient thanks to reversible design for heating and cooling
- Quiet operation thanks to special acoustic design
- Internet-compatible thanks to integrated Wi-Fi
- Operation, optimization, maintenance, and service via the Carrier Climate Control app and ViGuide
- Guided commissioning
- Convenient operation via 7" color touchscreen

→ Outdoor unit

- Inverter-controlled compressor, 4-way diverter valve, electronic expansion valve, evaporator, condenser, EC fan
- With R290 refrigerant charge
- Heating water filter upstream of condenser
- Carrying aid

→ Hydrobox indoor unit

- Built-in 4/3-way valve for heating/domestic water heating/bypass
- Built-in high-efficiency circulation pump for the secondary circuit/heating/cooling circuit 1
- Built-in instantaneous heating water heater
- Built-in 16-liter buffer tank
- Built-in safety valve and digital pressure gauge
- Weather-compensated heat pump control with outdoor temperature sensor
- Flow rate measurement
- Wall bracket, standard connecting pipes
- 10-liter membrane expansion vessel
- LAN expansion module for integration into the indoor unit

→ Wide range of accessories and options

- Sales and technical documentation provides detailed information about the extensive range of accessories.
- Extensive options allow adaptation to all structural situations, both for new construction and renovation.
- Please also note the basic accessories required for installation.



ESTIA BiBloc R290 Hydrobox / SET

Outdoor unit			HWP-401HW-E
Heating range @A+7/W+35 (min. - max.)	kW	☀	2,10 - 4,10
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Power consumption @ A+7/W+35 (nom.)	kW	☀	0,80
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,00
Heating capacity @ A+2/W+35 (max.)	kW	☀	2,50
Power consumption @ A+2/W+35 (max.)	kW	☀	0,66
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,80
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	127
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,50 / 3,30
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	2,60
Power consumption @ A+35/W+7 (nom.)	kW	❄	0,90
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,90
Compressor type			Twin-Rotary
Power supply	V/Ph+N/Hz		220-240/1+N/50
Running current (max.)	A		10,10
Current consumption (max.)	A		15,00
Starting current	A		Softstart
Recommended power supply line type			H07RN-F 3G2,5
Recommended fusing	A		16
Communication line			LiYCY-TP 2G1,5
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +40
Outdoor temperature operating range (min.-max.)	°C	❄	+15 / +45
Sound power level (ERP)	dB(A)	☀	51
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	56 / 4,10
Sound power level (max.)	dB(A)	❄	56
Sound pressure level (Rated, 1m)	dB(A)	☀	40
Sound pressure level (Rated, 1m)	dB(A)	❄	40
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	52
Sound power level (night operation)	dB(A)	❄	52
Sound pressure level (night operation, @ 1m)	dB(A)	☀	41
Sound pressure level (night operation, @ 1m)	dB(A)	❄	45
Refrigerant			R290
Refrigerant charge	kg		1,20
CO2 equivalent	t		0.000024
Dimensions (HxWxD)	mm		841 x 1144 x 600
Weight	kg		162

❄ Cooling ☀ Heating



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Indoor unit			HWP-1601XWHT8W-E
Supply water temperature (min.-max.)	°C	☀	15/70
Supply water temperature (min.-max.)	°C	❄	7/25
Controllable zones			1
Backup heater, connection	Ph+N		380-415/3+N/50
Backup heater, recommend fusing	A		3 x 16
Water pump			Non-self-suction centrifugal pump
Water flow rate (min.)	m ³ /h		1
Water flow rate (nom.)	m ³ /h		300/1000
Water pump, power consumption (max.)	kW		0,063
Water pump, energy efficiency class			EEL
Expansion vessel	l		18
Water connection (inlet/outlet)	Inch		28
Sound pressure level (low/med/high)	dB(A)	☀	32
Sound pressure level (low/med/high)	dB(A)	❄	32
Sound power level	dB(A)	☀	40
Sound power level	dB(A)	❄	40
Dimensions (HxWxD)	mm		920 x 450 x 360
Weight	kg		47

❄ Cooling ☀ Heating

The measuring conditions for this product can be found at <https://www.toshiba-aircondition.com/en/measuring-conditions.html>

