MasterTherm HEAT PUMPS

member of Atrea group
Atrea®

BoxAir 22–45 Inverter P

Monobloc R290 heat pumps for family houses of all sizes

Extremely quiet and economical air-to-water heat pump series for buildings with heat loss from 2 to 18 kW.

Fans and evaporator

Ultra-quiet fans with smooth speed regulation and an evaporator with directed outflow of the condensate.

Total safety

Thanks to the low volume of the R290 refrigerant in the system, an integrated refrigerant leak detector, and automatic shutdown of the unit.

Resilient all-aluminium cabinet

Aluminium construction of panels with a long-lasting resistance to weathering and corrosion. Default colour setting: anthracite RAL 7016.

WITH NATURAL REFRIGERANT **R290**

The BoxAir 22IP and BoxAir 26IP models offer even more compact dimensions.

A$^{++(+)}$ **Energy efficiency**

Czech (EU) product

Heating water temperature up to 75 °C

Power up to 25 kW

Online control

KEY FEATURES

- Compact monobloc outdoor heat air-to-water pump with power from 2 to 25 kW (depending on the model)
- **Easy installation without intervention to the cooling (compressor) circuit and into the existing heating system**
- No need of any indoor unit
- Full serviceability of all components

- Use for **heating and cooling of the building** including SHW preparation
- Unique Master Therm software for heat pump control (including remote access)
- 24/7 remote service monitoring and diagnostics
- **Smart home integration**: online 24/7 monitoring, modbus/BMS, integrated electricity meter, communication with PV inverter and batteries, connection to Smart Grids, etc.
- Active cooling mode (optional equipment)

- Built-in heating side circulation pump
- **Minimized noise due to ultra-quiet fans with smooth speed control**

- Max heating water temperature 75 °C
- Anti-legionella function from compressor only
- Outdoor temperature range from -20 °C to +40 °C
- Integrated bivalent power supply as standard

Model	Perfor-mance at A7W35	Heat loss of the building Q_z	Seasonal energy efficiency of heating at 35 °C low temperature operation		Seasonal energy efficiency of heating at 55 °C medium temperature operation		Maximum heating / SHW tempera-ture	Order number (according to heating circuit control)	
	kW	kW	SCOP	class	SCOP	class	°C	regulation STANDARD (µPC)	regulation PLUS (pCO5)
BoxAir 22 Inverter P	2–7	up to 5	4.85	A+++	3.76	A++	75	3-ph: BA22IP-301U 1-ph: BA22IP-101U	3-ph: BA22IP-311U 1-ph: BA22IP-111U
BoxAir 26 Inverter P	4–14	up to 10	5.14	A+++	3.83	A+++	75	3-ph: BA26IP-301U 1-ph: BA22IP-101U	3-ph: BA26IP-311U 1-ph: BA26IP-111U
BoxAir 37 Inverter P	6–20	up to 14	4.93	A+++	3.93	A+++	75	3-ph: BA37IP-301U 1-ph: BA37IP-101U	3-ph: BA37IP-311U 1-ph: BA37IP-111U
BoxAir 45 Inverter P	8–25	up to 18	4.74	A+++	3.61	A++	75	3-ph: BA45IP-301U	3-ph: BA45IP-311U

Find more at www.mastertherm.eu
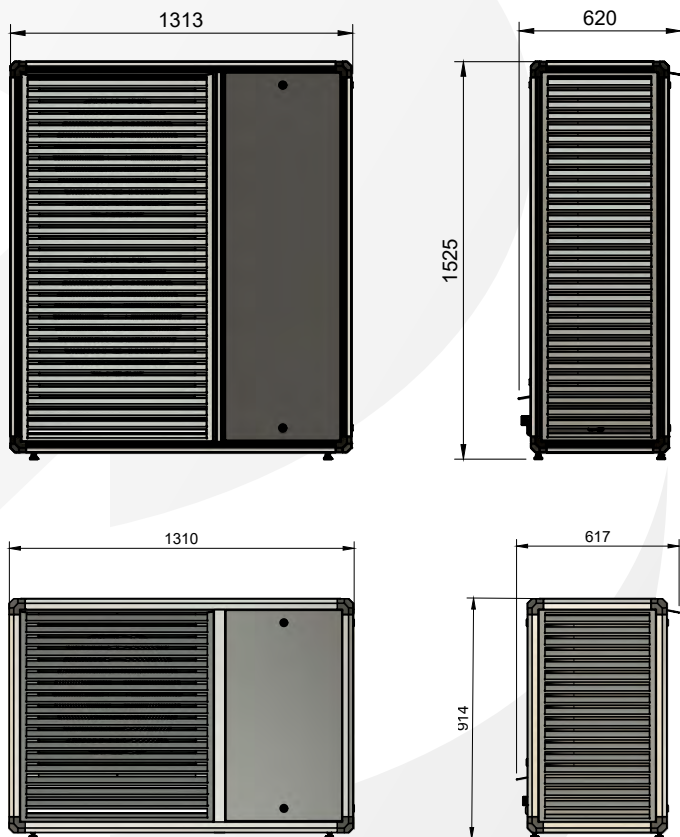
Designed for	single-circuit heating systems	multiple-circuit heating systems
Main heating circuit	yes	yes
Independent heating circuit	–	independently 2 incl. mixing
Space temperature	in 1 zone	in 2 zones
Hot water (SHW)	yes	yes
Selectable	–	up to 6 heating circuits

1313

620

1525

1310

617

914

Air flow direction
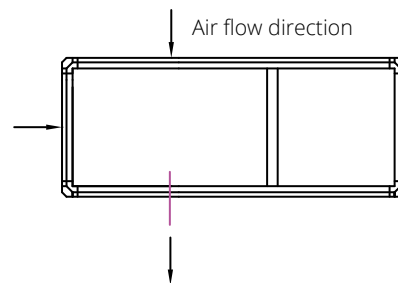
Unique Master Therm software for heat pump control

- Custom application for control of the cooling circuit and peripherals
- Equithermal MaR (measurement and control)
- Advanced **temperature feedback control in the building** based on indoor room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes remote service monitoring and diagnostics
- Control of up to 6 heating circuits incl. optional solar connection
- Cooperation with photovoltaics: **in-built connection to PV inverter**
- Smart tariff & Smart Grid: **automatic optimalization of heat pump's operation based on momentary electricity tariffs**

SMART GRID READY