

BoxAir 90 Inverter P

Unique high-power (50 kW) R290 heat pump for commercial and industrial use

Highly efficient and environmentally friendly heat pump for heating and cooling commercial & administrative buildings, production or storage halls, schools etc. Ready for cascades from 100 to 1000 kW.

With high performance

BoxAir 90IP offers performance of 50 kW (A7W35), which makes it the most powerful air-to-water heat pump on our offer.

Absolutely safe

With integrated refrigerant leak detector, automatic shut down of the unit, and check valves in the cooling circuit.

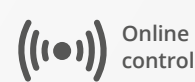
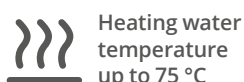
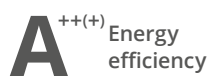


Refrigerant with minimum GWP

Maximally sustainable solutions with R290 refrigerant with the global warming potential = 3.

Handles temperatures up to 75 °C

Thanks to R290 refrigerant the outlet water temperature from the pump is up to 75 °C. Both for heating, as well as SHW.



KEY FEATURES

- Unique R290 air source heat pump with power up to 50 kW (A7W35)
 - All-in-one unit – easy installation, no need of any indoor unit
 - Integrated MasterLAN software – up to 16 units can be set up and connected to control power cascades of hundreds of kW.
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- Perfect for large-scale buildings and for commercial or industrial use, e. g. office buildings, production or warehouse halls, schools, hotels, sport facilities
 - Unique Master Therm software for heat pump control (including remote access)
 - 24/7 remote service monitoring and diagnostics
 - **Extensive intelligent optional equipment:** internet connection (monitoring and logging), modbus/BMS, integrated MID electric meter or heat meter, communication with PV Inverter and Batteries, smart grid 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
- **Back-up heater 15 + 15 kW as standard**

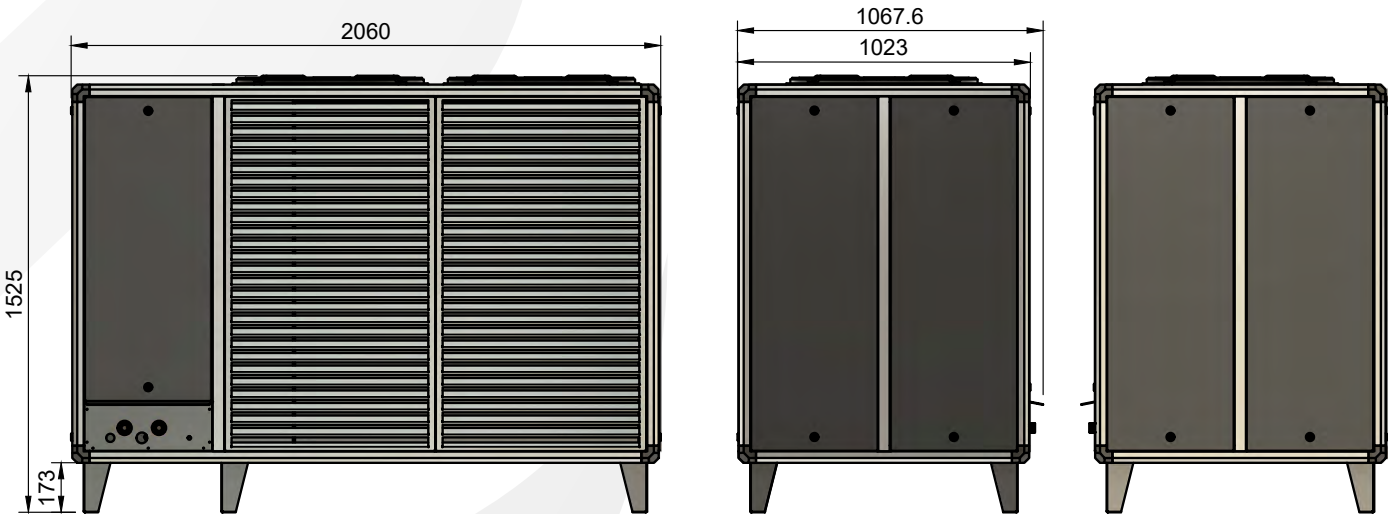
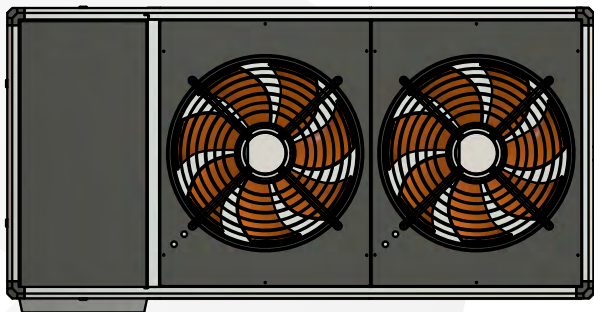




Model	Building heat loss Q_z	Performance at A7W35	P-Design	Seasonal energy efficiency of heating at a 35 °C low temperature operation		Seasonal energy efficiency of heating at a 55 °C medium temperature operation		Maximum heating/hot water temperature	Order number (according to heating circuit control)
				SCOP	Class	SCOP	Class		
BoxAir 90 Inverter P	up to 40	12-50	31	4.68	A+++	3.55	A++	75	BA90IP-311U

Find more at www.mastertherm.eu

Designed for	multiple-circuit heating systems
Main heating circuit	yes
Independent heating circuit	independently 2 incl. mixing
Space temperature	in 2 zones
Hot water (SHW)	yes
Option	up to 6 heating circuits



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 optimization of heat pump's operation based on momentary electricity tariffs**

