

AquaMaster 45 Inverter P

Powerful ground source
heat pump with R290

Efficient and powerful ground-to-water
heat pump with an output of up to
35 kW. Ready for cascades with total
power of more than 500 kW.



All-in-one

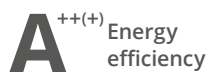
Unique ground-to-water compact heat
pump with minimum installation space.

Safety first

With integral R290 leak detector and
automatic shut down of the unit.
Ventilation box as factory equipment.

Unique possibility of cascades with more than 500 kW

Perfect solution also for large-scale
buildings with heat loss of hundreds
of kW. Up to 16 units can be
connected into the cascade.



Energy
efficiency



Czech (EU)
product



Heating water
temperature
up to 75 °C



Output up
to 35 kW



Online
control

KEY FEATURES

- Compact ground-to-water heat pump for residential and commercial application
- Power up to 35 kW (BOW35) from one compressor
- Total cascade power of hundreds of kW



- Use for **heating and cooling of the building** including SHW preparation
- **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.
- Passive cooling module (optional equipment)



- Ventilation box as recommended optional equipment
- Integrated circulation pumps for primary and secondary circuit incl. a 3-way valve
- Optional circulation pump on the side primary circuit with a 2-way zonal valve



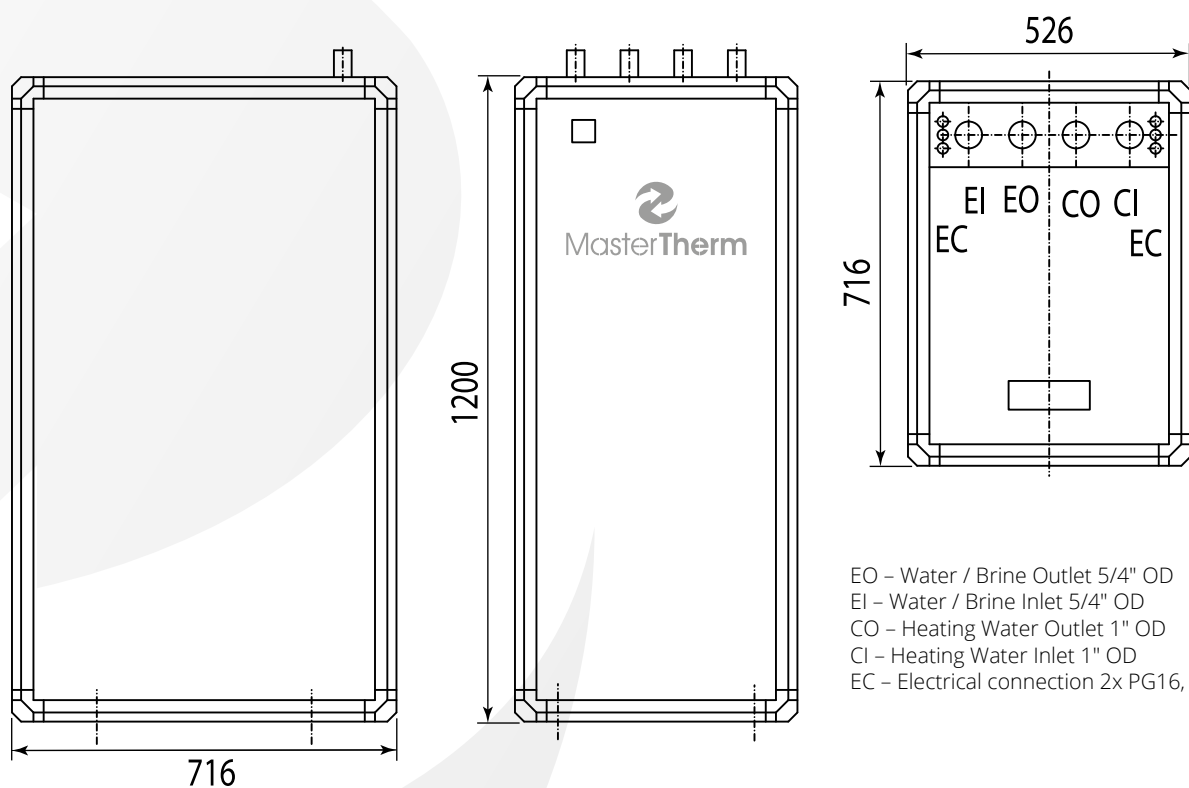
- SHW temperature up to 65 °C
- Max heating water temperature 75 °C
- **Anti-legionella function from compressor only.** No backup heater required





Model	Performance at B0W35	Heat loss of the object Q_z	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	Order number
	kW	kW	SCOP	Class	SCOP	Class	°C	Regulation PLUS (pCO5)
AquaMaster Inverter 45IP	5-35	up to 35	4.85	A+++	3.79	A++	75	AQ45IP-311U
Designed for								multiple-circuit heating systems
Main heating circuit								yes
Auxiliary heating circuit								independently 2 incl. mixing
Space temperature								in 2 zones
Hot water treatment								yes
Option								up to 6 heating circuits

Find more at www.mastertherm.eu



EO – Water / Brine Outlet 5/4" OD
EI – Water / Brine Inlet 5/4" OD
CO – Heating Water Outlet 1" OD
CI – Heating Water Inlet 1" OD
EC – Electrical connection 2x PG16, 4x PG13.5

Unique Master Therm software for pump control

- Custom application for controlling the cooling circuit and peripherals
- Equithermal MaR (measurement and regulation) system
- Advanced **feedback control of building temperature** based on internal room temperature sensors
- Control via touchscreen terminal or online application
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits, including the possibility of connecting a pool or solar panel
- Cooperation with photovoltaics: **in-built connection to PV inverter**
- Smart tariff & Smart Grid: **automatic optimization of heat pump's operation based on future spot electricity prices**

