AquaMaster Inverter

brine- water

water - water

model	B0W35	B0W35[1]		W10W35		Seasonal heating energy efficiency - low-temperature operation 35°C			
	power kW	power kW	COP	power kW	COP	power kW [4]	SCOP	ηs %	class
NEW AquaMaster Inverter-17l	1–5	2,95	4,3	3,79	5,51				
AquaMaster Inverter-22l	2–7	4,4	4,5	5,8	5,9	7	4,61	177	A++(+)
AquaMaster Inverter-26l	3–9	7,6	4,5	10,2	6,0	9	4,83	185	A++(+)
AquaMaster Inverter-30l	4–12	7,9	4,6	10,3	6,1	11	4,85	186	A++(+)
AquaMaster Inverter-37l	5–15	10,5	4,7	14,2	6,3	15	5,00	193	A++(+)
AquaMaster Inverter-45l	7–22	14,0	4,6	19,2	6,3	21	4,80	184	A++(+)
AquaMaster Inverter-60l	7–35	20,2	4,7	26,6	6,2	33	5,02	193	A++(+)
AquaMaster Inverter-90l	10–48	31,3 [3]	4,6	41,2 [3]	5,9	44	4,87	187	A++(+)

[1] Performance data according to ČSN EN 14 511, in accordance with the EHPA requirements for quality mark Q. B0W35 60 Hz - antifreeze mixture 0 °C, water 35 °C, compressor frequency 60 Hz

[2] Recommended value of el. Safety in basic equipment, without auxiliary electric boiler

[3] Data for 90l at 90 Hz

[4] Design power at outdoor temperature -10 °C according to ČSN EN 14 825.
A ++ (+) - meets Efficiency Class A +++ valid from 2019

Options

Internet HP control Master	
Full Cooling reversin	
Pasive Cooling module (for models: 22l-45l)	
Terminal pAD temperature compensation	
Terminal pADh floor cooling	
Desuperheater	
AQ_Electric_heater 4,5 kW / 6,0 kW / 7,5 kW	
Expanded control module for PLUS version	
Water to water version	
Internal unit (silver or red colour)	
RAL 7035	RAL 3020

Standard equipment

- ✔ Integrated graphic terminal PGD
- ✔ Variable output Inverter Compressor
- ✔ Equitherm control system MaR
- ✔ Electronically controlled coolant injection
- ✔ Main power supply switch
- ✔ Built-in circulator pumps for primary and secondary circuits

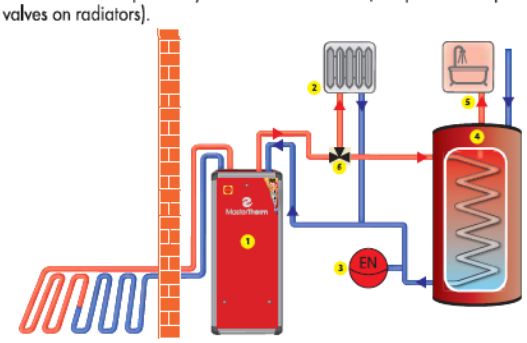
Features

- ▶ Use for heating and cooling
- ▶ Continuous control of heting power
- ▶ **Spojité řízení průtoku primárním okruhem**
- ▶ The temperature of heating water to 60 °C
- ▶ Water / water version on request
- ▶ Quiet operation, No buffer tank required
- ▶ Control up to 6 heating circuits

Heat pump connected directly to the heating system with 3wv for domestic hot water (dhw) preparation.

1-heat pump, 2-heating system, 3-expansion vessel, 4-dhw tank with coil, 5-dhw outlet, 6-3way valve

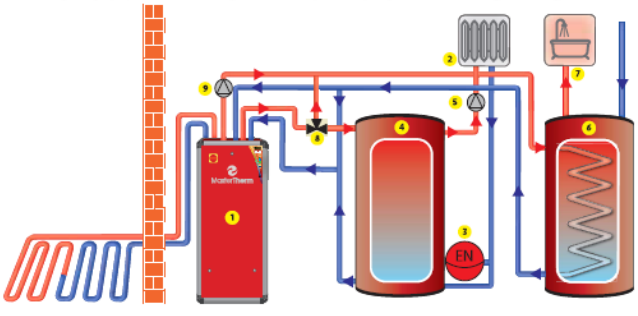
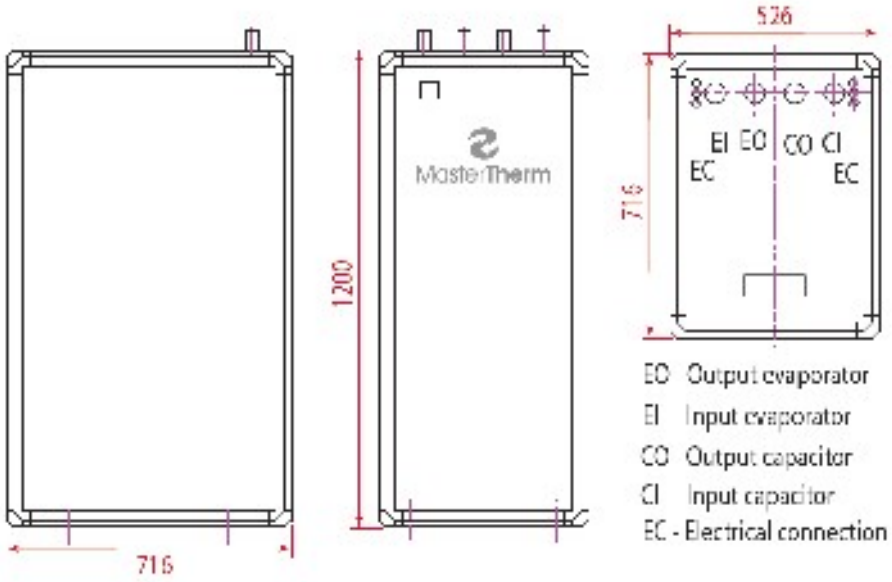
The heat pump (1) is directly connected to heating system. Heating water temperature is controlled according to a weather compensation curve. Production of hot water is a priority over the heating system by switching the 3wv (6) to the dhw tank (4). The heat pump increases the outlet water temperature until the requested dhw teperature is achieved, once achieved the heat pump switches the 3wv back to heating operation. This type of system is ideally suited to underfloor heating systems (ufh) but also systems with radiators with a large volume of heating water utilising our pAD room terminal. This solution limits the possibility of local zone control (independent loop ufh, thermostatic valves on radiators).



Heat pump connected to a buffer tank and 3wv to the domestic hot water cylinder (dhw) with desuperheater.

1-heat pump, 2-heating system, 3-expansion vessel, 4-buffer tank, 5-heating circulation pump, 6-dhw tank with coil, 7- dhw outlet, 8-3way valve, 9-desuperheater circulation pump

Heat pump (1) connected to the heating system through a buffer tank (4) which has the function of thermal buffer and a low loss header. Heating water temperature is controlled according to a weather compensation curve. The flow to the heating system is controlled by the main heating circulation pump. Production of hot water is a priority over the heating system by switching the 3wv (8) to the dhw tank (6). The heat pump increases the outlet water temperature until the requested dhw teperature is achieved, once achieved the heat pump switches<Žádný> the 3wv back to heating operation. When dhw requested temperature is achieved the heat pump controller moves 3wv back to heating operation. The desuperheater (optional equipment) is a additional exchanger which harvests high potential energy from compressor outlet. An independent circuit with circulator pump (9) is used for high efficiency dhw preparation during heating mode.



Dimensions and Model Connections 22l through 60l: