



Model	A7W35		A7W35 60Hz ²⁾		A2W35 60Hz		A-7W35 80Hz		A-15W35 90Hz		Seasonal heating energy efficiency - low-temperature operation 35°C			
	Power (kW)	Heat loss Q _z (kW)	Power (kW)	COP	Power (kW)	COP	Power (kW)	COP	Power (kW)	COP	Power (kW)	SCOP	ηs %	Class
BoxAir 221	2-7	to 5.5	4,9	4,7	3,6	3,5	3,6	2,8	3,2	2,6	5	4,18	164	A++
BoxAir 261	3-9	to 8.5	8,1	4,8	5,8	3,5	5,5	2,8	5,1	2,5	7,5	4,40	173	A++
BoxAir 301	5-12	to 10	8,65	5,2	6,25	3,8	6,0	2,9	5,3	2,4	8,5	4,49	177	A+++
BoxAir 371	5-17	to 13	11,5	4,7	8,8	3,7	8,7	2,8	8,2	2,3	11	4,48	176	A+++
BoxAir 451	7-22	to 16	15,3	4,7	10,6	3,5	11,1	2,75	9,8	2,2	14	4,30	169	A+++

¹⁾ Performance data according to ČSN EN 14 511, in accordance with the EHPA requirements for quality mark Q. A7W35 60 Hz: at 7 °C, water 35 °C, compressor frequency 60 Hz
²⁾ Recommended value of el. 3x400V fuse, incl. Auxiliary integrated electric boiler. The units 221, 261 and 301 can also be connected to a 1x230V network with 40A^{1B}(221), resp. 50A^{1B}(261, 301).
³⁾ Design power at outdoor temperature -10 °C according to ČSN EN 14 825.

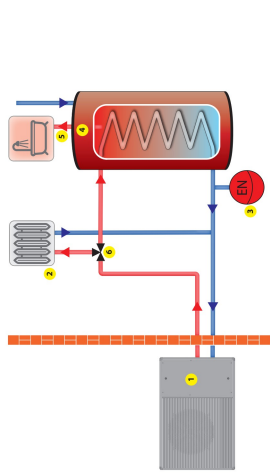
Options
Internet HP control Master
Full Cooling reversing
Terminal pADh floor cooling
Terminal pADh temperature compensation
Expanded control module for PLUS version
Evap. with Corrosion Resistant Coating (single fan)
Evap. with Corrosion Resistant Coating (2 fans)
External unit colour on demand RAL code
Silver colour
RAL 9006

Standard equipment
✓ Graphic terminal PGD
✓ Variable output inverter Compressor
✓ New low-noise fan
✓ Equitherm control system MaR
✓ Built-in immersion heater and circulation pump
✓ Electronically controlled coolant injection

Features
▶ Outdoor compact
▶ Use for heating and cooling
▶ The temperature of heating water to 60 °C
▶ Temperatures range from +35 °C to -20 °C
▶ Very easy installation, quiet operation
▶ Control up to 6 heating circuits

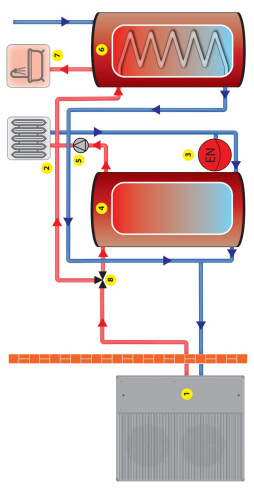
Heat pump connected directly to the heating system with 3kw for domestic hot water (dhw) preparation.

1-heat pump, 2-heating system, 3-expansion vessel, 4-dhw tank with coil, 5-dhw outlet, 6-3-way 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 3kw (6) to the dhw tank (4). The heat pump increases the outlet water temperature until the requested dhw temperature is achieved, once achieved the heat pump switches the 3kw 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 focal zone control (independent loop ufh, thermostatic valves on radiators).

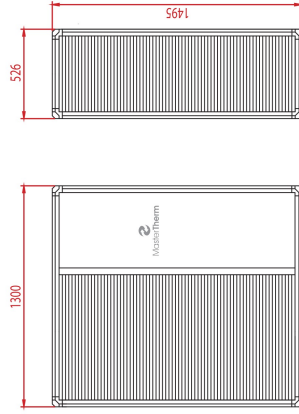


Heat pump connected to a buffer tank and 3kw to the domestic hot water cylinder (dhw) preparation.

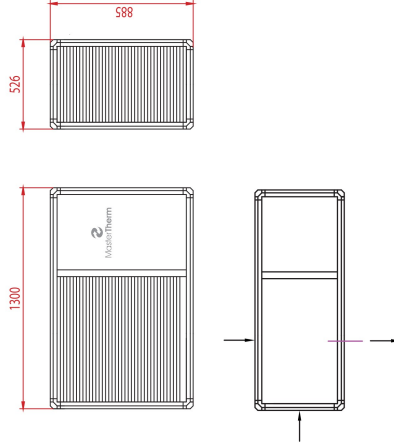
1-heat pump, 2-heating system, 3-expansion vessel, 4-buffer tank, 5-heating circulator pump, 6-dhw tank with coil, 7-dhw outlet, 8-3-way valve
 Heat pump (1) connected to the heating system through a buffer tank (4) which has the function of thermal buffer and a low loss header. Heating water temperature is controlled according to a weather compensation curve. The flow to the heating system is controlled by the main heating circulator pump. Production of hot water is a priority over the heating system by switching the 3kw (8) to the dhw tank (6). The heat pump increases the outlet water temperature until the requested dhw temperature is achieved, once achieved the heat pump switches the 3kw back to heating operation. This solution is ideally suited to systems with low heat buffering capacity and systems that require independent room zone control. Additionally, this type of system has the ability to integrate a secondary source of heat into the buffer tank (4) such as a wood stove with back boiler.



Dimensions and connections: BA301 and BA451:



Dimensions and connections: BA221 and BA261



Heating circuits control	STANDARD (µPC)	PLUS (pCO5)
Intended for	single-circuit heating systems	multi-circuit heating systems
Main heating circuit	Yes	Yes
Secondary heating circuit	No	2 independent including mixing
Room temperature	In 1 zone	In 2 zones
SHW	Yes	Yes
Optional	No	Up to 6 heating circuits

