

HYDROBOX 4.0

TECHNICAL DATA

HB...V(P)L4.0			450	560	710	850
Rated heating capacity ¹⁾	A7 / W35	kW	51	64	79	89
Heating capacity ¹⁾	A-10 / W35	kW	51	57	71	77
Rated cooling capacity ¹⁾	A35 / W7	kW	43	53	64	70
Cooling capacity ¹⁾	A35 / W15	kW	52	64	77	85
Dimensions	H x B x T	mm	930 x 785 x 525			
Weight		kg	144	158	166	166
Rated volume flow	Heating, $\Delta t = 5 \text{ K}^2)$	m ³ /h	8.6	10.8	13.5	15.2
Rated pressure loss	Version VJ, including strainer	kPa	28	24	26	32
External static pressure (ESP)	Version VPJ, standard pump	kPa	63	51	51	37
	Version VPJ, high ESP pump	kPa	75	66	80	67
	Version VPJ, extra high ESP pump	kPa	109	97	96	81
Power consumption	Version VPJ, standard pump	kW	0.43	0.43	0.53	0.53
	Version VPJ, high ESP pump	kW	0.53	0.53	0.71	0.71
	Version VPJ, extra high ESP pump	kW	0.71	0.71	0.86	0.86
Electrical connection	Power supply	V / Ph / Hz	230 / 1 / 50			
Control range		-	20–100 %			
Water outlet temperature	Heating / cooling	°C	27–50 / 6–18			
Water inlet temperature	Max. / Min.	°C	45 / 10			
Environmental conditions	Temperature	°C	+5 to +35			
	Max. humidity	% r.h.	90			
Pipe connections	Water pipes	Inch	1½		2	
	Refrigerant gas / liquid pipe ³⁾	Inch	1 ⅛ / ⅝		1 ¼ / ¾	
		mm	28.6 / 15.9		31.8 / 19.1	
Scope of delivery						
Standard (supplied loose)	2 connection adapters with accessories (refrigerant side) 2 counter flanges with accessories (water side) 1 safety group (water side) 1 strainer (water side) 2 cable temperature sensors as immersion sensors (for heating and cooling buffer tank)					
Optional accessories	High ESP pump, type Y-HB-PU1-450/560 or 710/850 Extra high ESP pump, type Y-HB-PU2-450/560 or 710/850 Connection frame, type Y-HB-RAH Joint feet, type Y-HB-FUE Outside temperature sensor, type Y-HB-DPUT Cable temperature sensor as a pipe-mounted sensor, type Y-HB-NTC-WS Combined Modbus / BACnet card, type Y-HB-BAC					

1) Capacities are calculated for a standard indoor/outdoor unit combination with a 7.5 m piping length and 0 m level difference. These are Hydrobox water outlet temperatures.

2) The Δt can be adjusted in the range 5–10 K.

3) The dimensions of the refrigerant connection pipes can be found on page 14 or 20.