

Technical Data **AQ45IC1**

Performances

		B0W35*	B0W50	W10W35*	W10W50	B-5W35*
Heating Capacity	kW	14.3	13.3	19.5	17.8	12.2
Cooling Capacity	kW	11.5	9.6	16.6	13.8	9.5
Power In	kW	3.1	4.0	3.1	4.2	3.0
COP	-	4.65	3.33	6.33	4.22	4.08
Operating Current	A	16.4	20.6	16.4	21.6	16.0

Compressor

Type	BLDC Inverter	
Speed	30-90	1/min
Charge PVE oil	1.3	l
LRC***	-	A
Max. Op. Current	22	A

Evaporator

Type	PHE	
Material	AISI316	
Water Flow (W/W)	1.65	kg/s
Minimum Flow	1.49	kg/s
Brine Flow (B/W)	0.92	kg/s
Minimum Flow	0.55	kg/s
Temp. Difference	3	K
Internal Volume	5.1	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	4.20	MPa
Pump Ext. Head	3.5	m
Pump Motor	250	W

Condenser

Type	PHE	
Material	AISI316	
Water Flow	0.64	kg/s
Minimum Flow	0.48	kg/s
Temp. Difference	5.0	K
Internal Volume	4.1	l
Max. Water Overp.	250.0	kPa
Max. Ref. Overp.	4.2	MPa
Pump Ext. Head	3.0	m
Pump Motor	100.0	W

Refrigerant Circuit

Refrigerant	R410a	
Charge	2.4	kg

Aux. Heater (Option)

Heating Capacity	4.5	kW
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Sanitary Hot Water

storage volume	170	l
max. op. pressure	0.7	MPa

Controls

Controller	pCO5	
EEV	Yes	
Water Probe	Yes	
SHW Probe/Output	Yes	
Mixing Probe/Output	Yes, 2x	
Outdoor Probe	Yes	
Dynamic Set Point	Yes	
Refrigerant Probe	2xPT	

Power Supply

Voltage	1x230	V
Frequency	50	Hz
Max. Current (AH)	32+(20)	A

Connections and Dimensions

Hot Water, Brine	1"	"OD
He x Wi x De	185x69x65 cm	
Weight	295	kg

Limits

W/B Overpressure	0.25	MPa
Ref. Overpressure	4.2	MPa
Brine Min/Max	-5/+10	°C
Water Min/Max	20/60	°C

*B0W35, acc. to EN14511, at 60rps

"B0" Brine Inlet 0°C

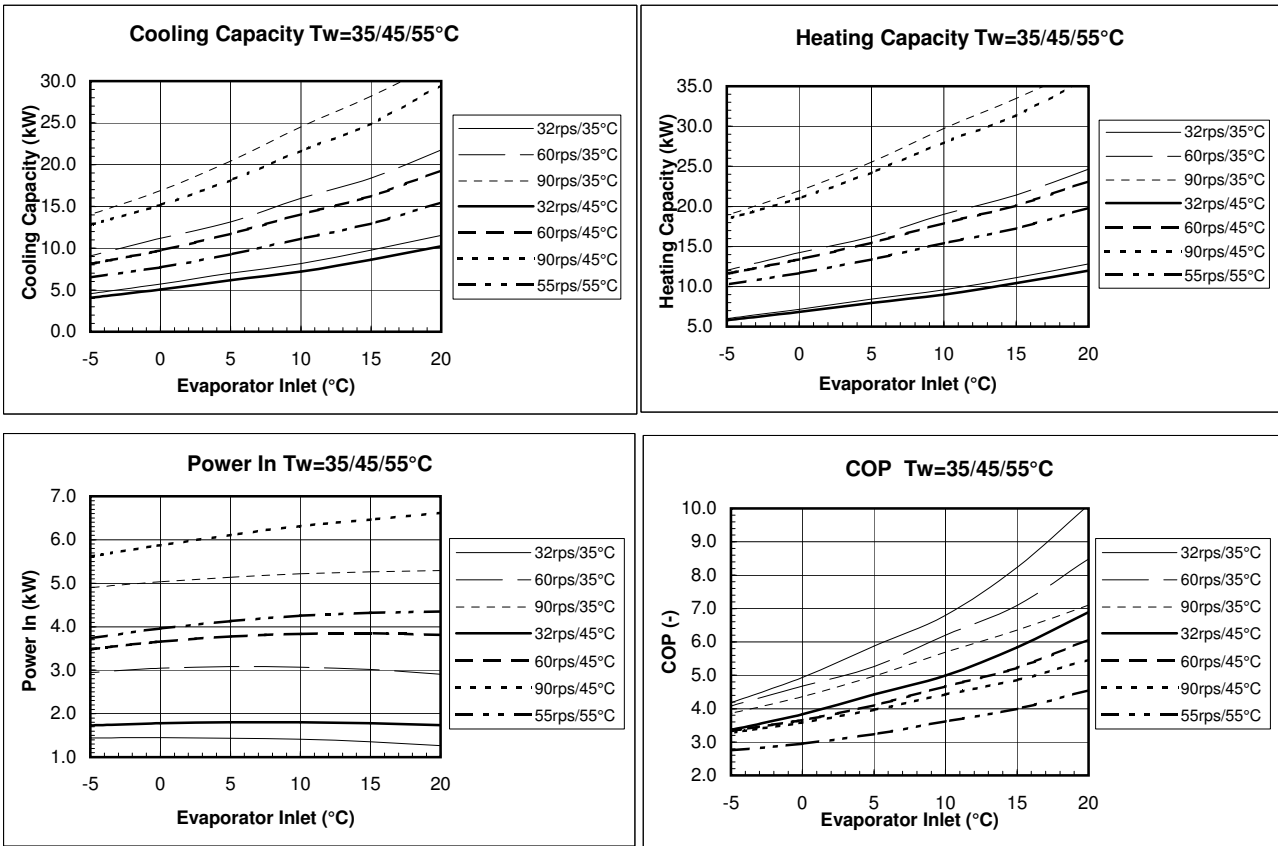
"W35" Water Outlet 35°C

Performance Tolerance EN14511

** Effective Power acc. to EN14511

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Performance *



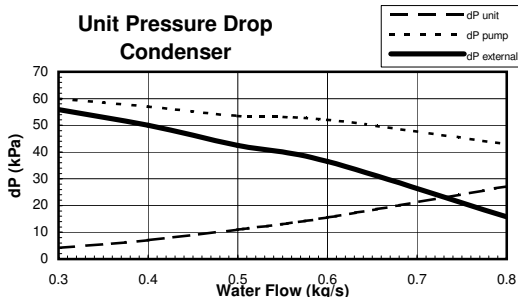
* Performance Tolerance $\pm 10\%$

Dimensions, Connections

1 2 8 7 6 9 3 4

1. Water / Brine Inlet 1" OD
2. Water / Brine Outlet 1" OD
3. Hot Water Outlet 1" OD
4. Hot Water Inlet 1" OD
5. El. Bushings

Unit Pressure Drop Condenser



Unit Pressure Drop Evaporator

