

Technical Data AQ22I

Performances

		B0W35*	B0W50	W10W35*	W10W50	B-5W35
Heating Capacity	kW	4.38	4.17	5.81	5.52	3.33
Cooling Capacity	kW	3.47	2.94	4.88	4.21	2.43
Power In	kW	0.97	1.28	0.98	1.36	0.95
COP	-	4.54	3.26	5.94	4.05	3.51
Operating Current	A	4.6	6.0	4.7	6.4	4.6

Compressor

Type	BLDC Inverter	
Speed	30-100	1/min
Charge POE oil	1.3	l
LRC***	-	A
Max. Op. Current	22	A

Evaporator

Type	PHE	
Material	AISI316	
Water Flow (W/W)	0.50	kg/s
Minimum Flow	0.44	kg/s
Brine Flow (B/W)	0.28	kg/s
Minimum Flow	0.17	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	3.0	m
Pump Motor Max.	100	W

Condenser

Type	PHE	
Material	AISI316	
Water Flow	0.20	kg/s
Minimum Flow	0.15	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 Max.	100.0	W

Refrigerant Circuit

Refrigerant	R410a	
Charge	1.5	kg

Aux. Heater (Option)

Heating Capacity	3-4 (4,5-6) kW
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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 (3x400) V
Frequency	50 Hz
Max. Current	16/0/0 A
incl. auxiliary heater	16/10/10 A

Connections and Dimensions

Hot Water, Brine	1" "OD
He x Wi x De	120x56x72 cm
Weight	160 kg

Limits

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

*B0W35, acc. to EN14511, at 60rps

"B0" Brine Inlet 0°C

"W35" Water Outlet 35°C

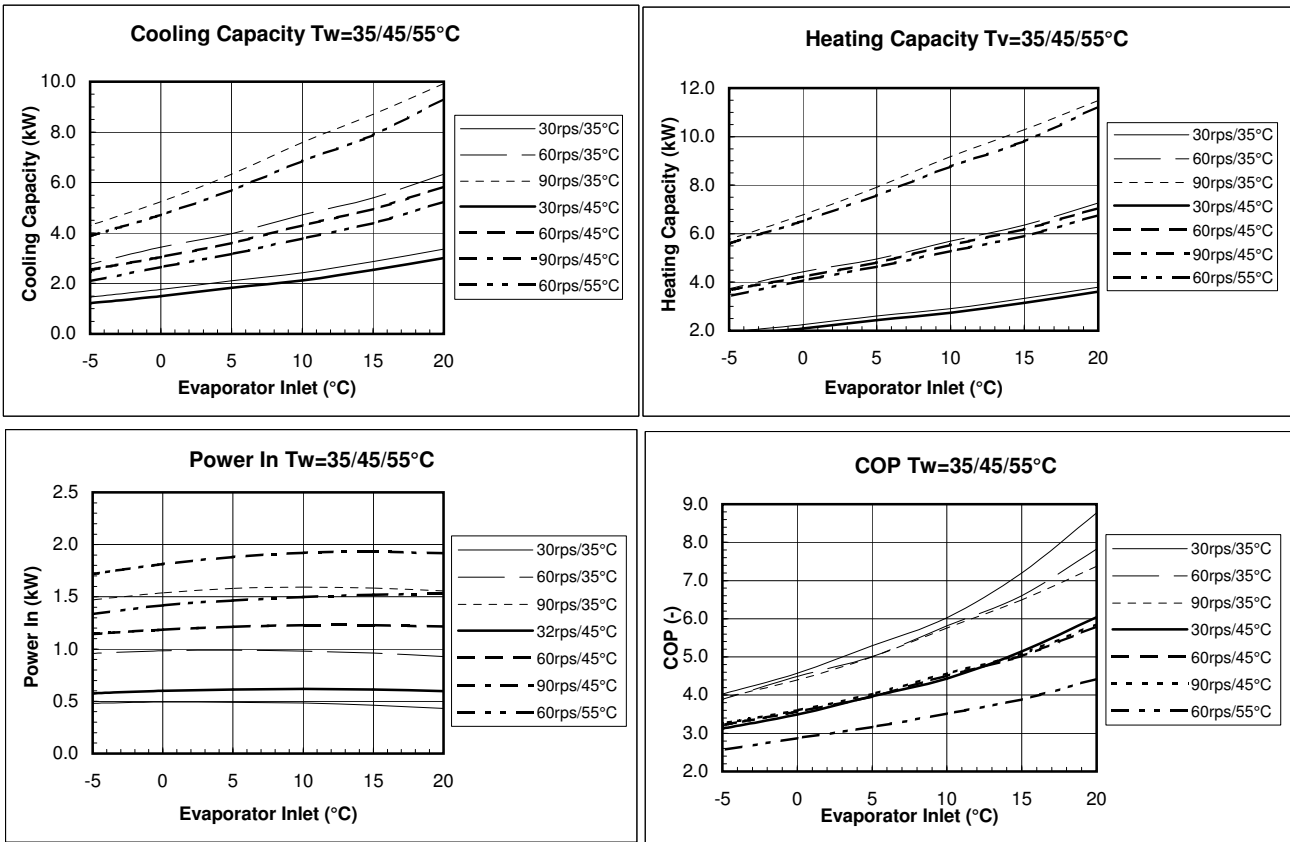
Performance Tolerance EN14511

** Effective Power acc. to EN14511

*** Locked Rotor Current

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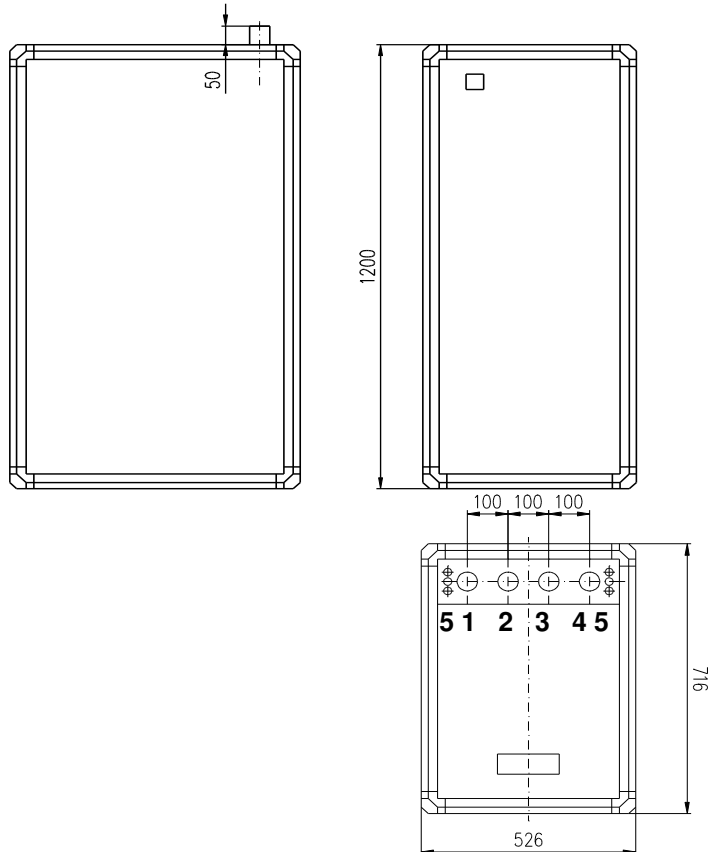
Performance *



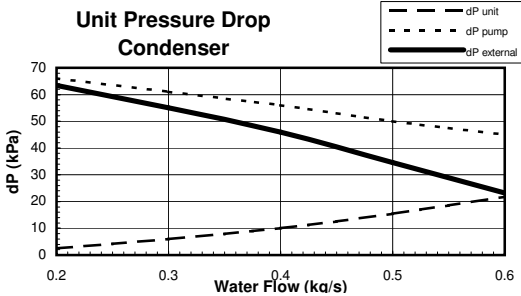
* Performance Tolerance $\pm 10\%$

Dimensions, Connections

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. 2xPG16, 4xPG13.5



Unit Pressure Drop
Condenser



Unit Pressure Drop
Evaporator

