

Technical Data AQ22IC

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.	70.0	W

Refrigerant Circuit

Refrigerant	R410a	
Charge	1.7	kg

Aux. Heater (Option)

Heating Capacity 3-4 (4,5-6) kW

Sanitary Hot Water

storage volume 170 l
max. op. pressure 0.7 MPa

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 20/0/0 A
incl. auxiliary heater 20/10/10 A

Connections and Dimensions

Hot Water, Brine 1" "OD
He x Wi x De 185x69x65 cm
Weight 315 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

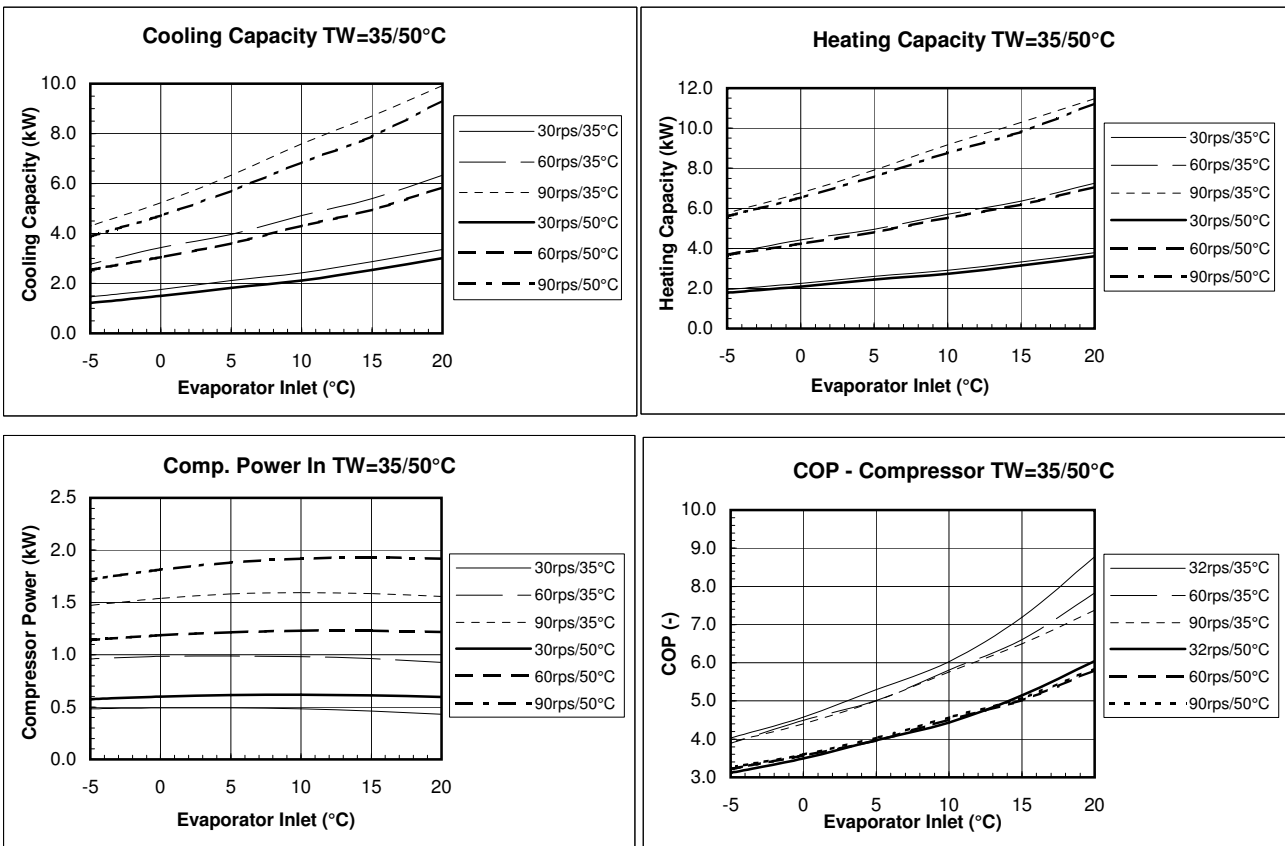
Performance Tolerance EN14511

** Effective Power acc. to EN14511

*** Locked Rotor Current

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Performance *



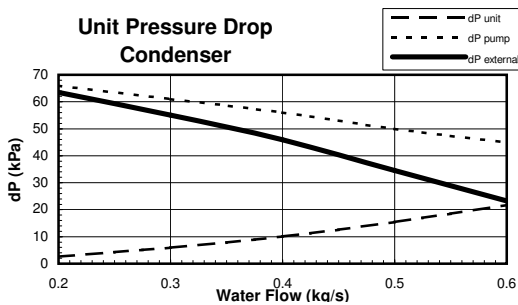
* Performance Tolerance ±10%

Dimensions, Connections

1 2 8 7 6 9 3 4

1. Brine Inlet 1" OD
2. Brine Outlet 1" OD
3. Hot Water Outlet 1" OD
4. Hot Water Inlet 1" OD
5. El. Bushings 2xPG29

Unit Pressure Drop Condenser



Unit Pressure Drop Evaporator

