

Technical Data AQ90Z

Performances

		B0W35*	B0W50	W10W35*	W10W50	B-5W35
Heating Capacity	kW	33.2	31.4	45.0	40.3	28.4
Cooling Capacity	kW	25.6	20.8	36.9	29.3	21.0
Power In	kW	7.8	10.8	8.3	11.2	7.6
COP	-	4.3	2.9	5.4	3.6	3.7
Operating Current	A	13.3	18.1	14.2	18.6	12.9

Compressor

Type	Scroll Sanyo	
Speed	2900	1/min
Charge POE oil	2.8	l
LRC***	96	A
Max. Op. Current	30.2	A

Evaporator

Type	PHE	
Material	AISI316	
Water Flow (W/W)	2.34	kg/s
Minimum Flow	2.21	kg/s
Brine Flow (B/W)	1.24	kg/s
Minimum Flow	1.22	kg/s
Temp. Difference	4	K
Internal Volume	5.1	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	2.8	MPa
Pump Ext. Head	3.0	m
Pump Motor	400	W

Condenser

Type	PHE	
Material	AISI316	
Water Flow	0.75	kg/s
Minimum Flow	0.75	kg/s
Temp. Difference	10.0	K
Internal Volume	5.2	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	2.8	MPa
Pump Ext. Head	3.0	m
Pump Motor	200.0	W

Refrigerant Circuit

Refrigerant	R407c	
Charge	3.0	kg

Aux. Heater (Option)

Heating Capacity	4.5-7.5	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	3x400	V
Frequency	50	Hz
Max. Current	28	A

Connections and Dimensions

Hot Water, Brine	1, 5/4"	"OD
He x Wi x De	120x56x72 cm	
Weight	210	kg

Limits

W/B Overpressure	0.25	MPa
Ref. Overpressure	2.8	MPa
Brine Min/Max	-5/+20	°C
Water Min/Max	20/60	°C

*B0W35, EN14511, condenser dT=5K

"B0" Brine Inlet 0°C

"W35" Water Outlet 35°C

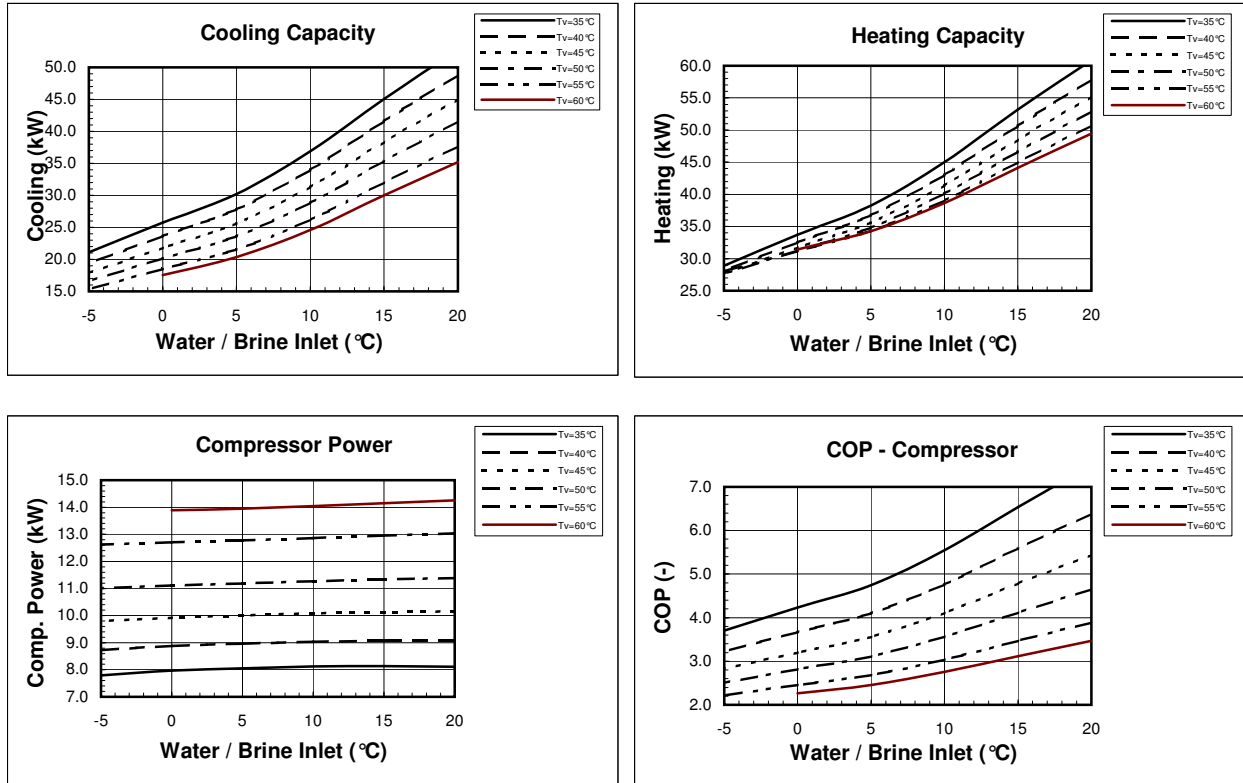
Performance Tolerance acc. to EN14511

*** Locked Rotor Current

Other temperature conditions acc. to EN255

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Performance *



* Performance Tolerance $\pm 10\%$

Dimensions, Connections

1. Water / Brine Inlet 5/4" OD
2. Water / Brine Outlet 5/4" OD
3. Hot Water Outlet 1" OD
4. Hot Water Inlet 1" OD
5. 2xPG16, 4xPG13.5

