Technical Data AQ50Z

Performances

		B0W35*	B0W50	W10W35*	W10W50	B-5W35
Heating Capacity	kW	18.5	18.1	24.1	23.2	16.0
Cooling Capacity	kW	14.4	12.7	19.8	17.4	12.0
Power In	kW	4.3	5.6	4.5	6.0	4.2
COP	-	4.3	3.2	5.4	3.9	3.8
Operating Current	A	8.0	9.9	8.2	10.4	7.9

Compressor

Type	Scroll Sanyo	
Speed	2900	1/min
Charge POE oil	1.7	l
LRC***	73	A
Max. Op. Current	16	A

Evaporator

Type	PHE	
Material	AISI316	
Water Flow (W/W)	1.39	kg/s
Minimum Flow	1.18	kg/s
Brine Flow (B/W)	1.01	kg/s
Minimum Flow	0.69	kg/s
Temp. Difference	3	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	350	W

Condenser

Type	PHE	
Material	AISI316	
Water Flow	0.54	kg/s
Minimum Flow	0.43	kg/s
Temp. Difference	8.0	K
Internal Volume	4.1	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	2.8	MPa
Pump Ext. Head	3.0	m
Pump Motor	150	W

Refrigerant Circuit

Refrigerant	R407c	
Charge	2.1	kg

Aux. Heater (Option)

Heating Capacity	4.5-7.5	kW

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
Frequence	50	Hz
Max. Current	18	A

Connections and Dimensions

Hot Water, Brine	1, 5/4"	"OD
He x Wi x De	120x56x72	cm
Weight	170	kg

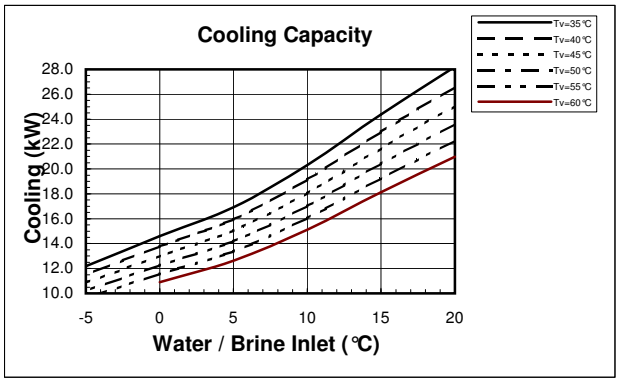
Limits

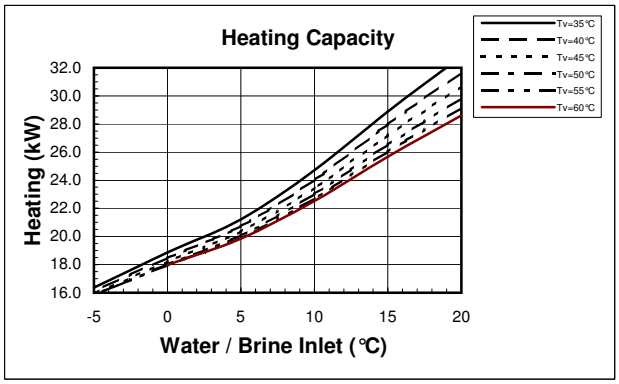
W/B Overpressure	0.25	MPa
Ref. Overpressure	2.8	MPa
Brine Min/Max	-5/+20	℃
Water Min/Max	20/60	℃

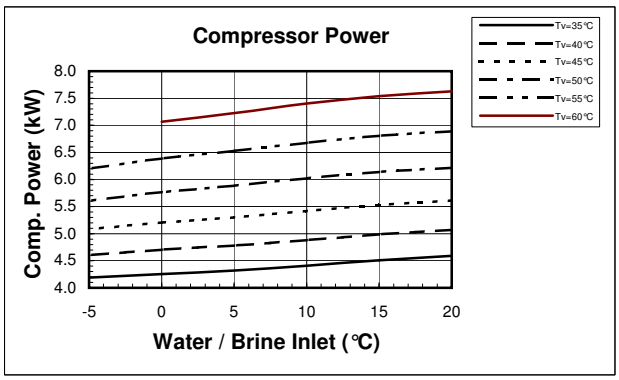
*B0W35, acc. to EN255
"B0" Brine Inlet 0℃
"W35" Water Outlet 35℃
Performance Tolerance ±10%
**** Effective Power acc. to EN255**
*** Locked Rotor Current

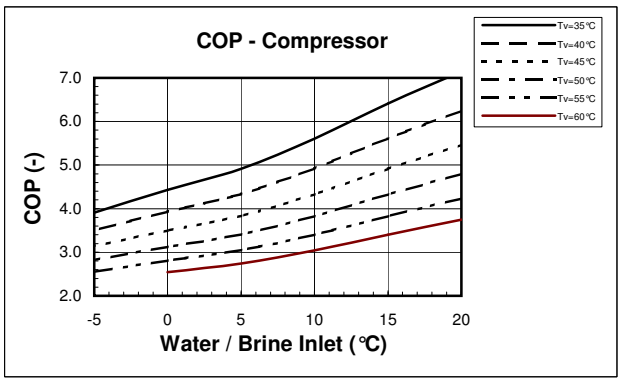
Technical Data AQ50Z

Performance *









* Performance Tolerance ±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