

Technical Data AQ90I-1

Performances

		B0W35*	B0W55	W10W35	W10W55	B0W35^{1]}
Heating Capacity	kW	31.29	29.44	41.17	37.83	44.63
Cooling Capacity	kW	24.67	19.70	34.49	27.70	34.56
Power In**	kW	6.87	9.98	6.94	10.38	10.33
COP	-	4.55	2.95	5.94	3.65	4.32
Operating Current	A	13.5	18.5	13.6	19.1	19.0

Compressor

Type	BLDC Inverter Scroll	
Speed	30-150	rps
Charge PVE oil	1.4	l
LRC	-	A
Max. Op. Current	35	A

Evaporator

Type	PHE	
Material	AISI316	
Water Flow (W/W)	3.31	kg/s
Minimum Flow	3.09	kg/s
Brine Flow (B/W)	1.97	kg/s
Minimum Flow	1.18	kg/s
Temp. Difference	3	K
Internal Volume	5.08	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	4.2	MPa
Pump Ext. Head	5.0	m
Pump Motor	310	W

Condenser

Type	PHE	
Material	AISI316	
Water Flow	1.41	kg/s
Minimum Flow	1.06	kg/s
Temp. Difference	5.00	K
Internal Volume	4.1	l
Max. Water Overp.	250	kPa
Max. Ref. Overp.	4.2	MPa
Pump Ext. Head	8.0	m
Pump Motor (2 Pumps)	310 (620)	W

Refrigerant Circuit

Refrigerant	R410a	
Charge	3.6	kg

Aux. Heater (Option)

Heating Capacity	6	kW
------------------	---	----

Controls

Controller	pCO5	
EEV	1+1(EVI)	
Water Probe	Yes	
SHW Probe/Output	Yes	
Mixing Probe/Output	Yes, 2x	
Outdoor Probe	Yes	
Dynamic Set Point	Yes	
Refrigerant Probe	2xPT	

Noise

Sound Power Level		
Lwa	63	dB"A"

Power Supply

Voltage	3x400	V
Frequency	50	Hz
Max.Current (no AH)	40	A

Connections and Dimensions

Hot Water, Brine	5/4"	"OD
He x Wi x De	120x72x72	cm
Weight	210	kg

Limits

W/B Overpressure	0.25	MPa
Ref. Overpressure	4.20	MPa
Brine Min/Max	-5/+10	°C
Water Min/Max	20/64	°C

*B0W35, acc. to EN14511, at 90rps

"B0" Brine Inlet 0°C

"W35" Water Outlet 35°C

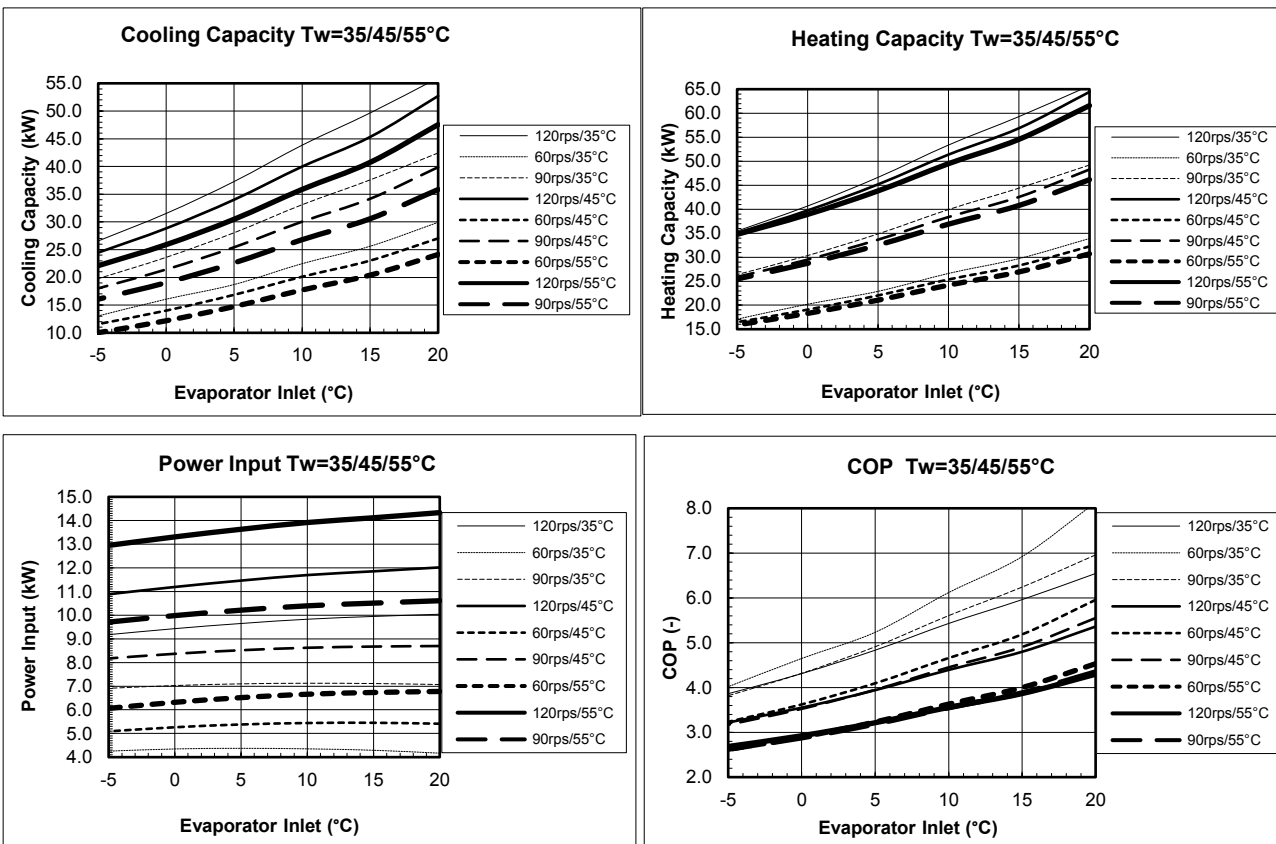
** Effective Power acc. to EN14511

1] maximum performance at 135rps

Technical Data

AQ90I-1

Performance *

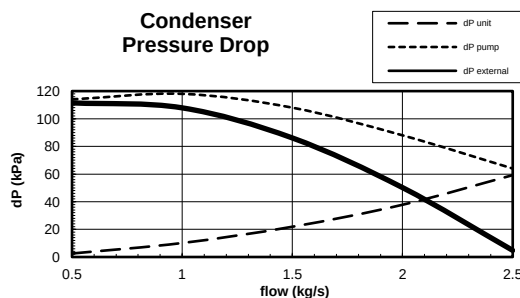


* Performance Tolerance $\pm 10\%$

Dimensions, Connections

1. Hot Water Outlet 5/4" OD
2. Hot Water Inlet 5/4" OD
3. Water / Brine Inlet 5/4" OD
4. Water / Brine Outlet 5/4" OD
5. 2xPG16, 4xPG13.5
6. (Desuperheater 2xCu15mm ID)

Condenser Pressure Drop



Evaporator Pressure Drop

