

Technical Data AQ90IP

Performances*	rps	60	60	60	60	120
		B0W35	B0W55	W10W35	W10W55	B0W35
Heating Capacity	kW	32,9	29,3	42,5	38,5	70,44
Cooling Capacity	kW	26,2	20,0	35,9	28,6	53,10
Power In	kW	7,2	9,7	7,0	10,3	18,14
COP	-	4,59	3,02	6,04	3,73	3,88
Operating Current	A	14,0	18,1	13,7	19,0	31,6

Compressor

Type	2x BLDC Inverter		
Speed	15-120	rps	
Oil	HAF68D1U 2,0	l	
LRC	-	A	
Max. Op. Current	24	A	

Evaporator

Type	PHE		
Material	AISI316		
Water Flow (W/W)	4,29	kg/s	
Minimum Flow	3,22	kg/s	
Brine Flow (B/W)	2,18	kg/s	
Minimum Flow	1,25	kg/s	
Temp. Difference	3	K	
Internal Volume	5,1	l	
Max. Water Overp.	250	kPa	
Max. Ref. Overp.	3,1	MPa	
Unit Pressure Drop	2,5	m	
Pump Motor	-	W	

Condenser

Type	PHE		
Material	AISI316		
Water Flow	1,58	kg/s	
Minimum Flow	1,05	kg/s	
Temp. Difference	5,0	K	
Internal Volume	4,1	l	
Max. Water Overp.	250	kPa	
Max. Ref. Overp.	3,1	MPa	
Unit Pressure Drop	1,5	m	
Pump Motor	-	W	

Refrigerant Circuit

Refrigerant	R290		
Charge	2x0,95	kg	
Minimum Airflow**	35	m ³ /h	

Aux. Heater (Option)

Heating Capacity	-	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	2x (3x400) V	
Frequency	50	Hz
Max. Current (AH)	3x32+3x25 A	

Connections and Dimensions

Hot Water, Brine	2 1/2"	OD
He x Wi x De	120x102x72 cm	
Weight	300	kg

Limits

W/B Overpressure	0,25	MPa
Ref. Overpressure	3,1	MPa
Brine Min/Max	-5/+20	°C
Water Min/Max	20/75	°C

*B0W35, acc. to EN14511, at 60rps

"B0" Brine Inlet 0°C

"W35" Water Outlet 35°C

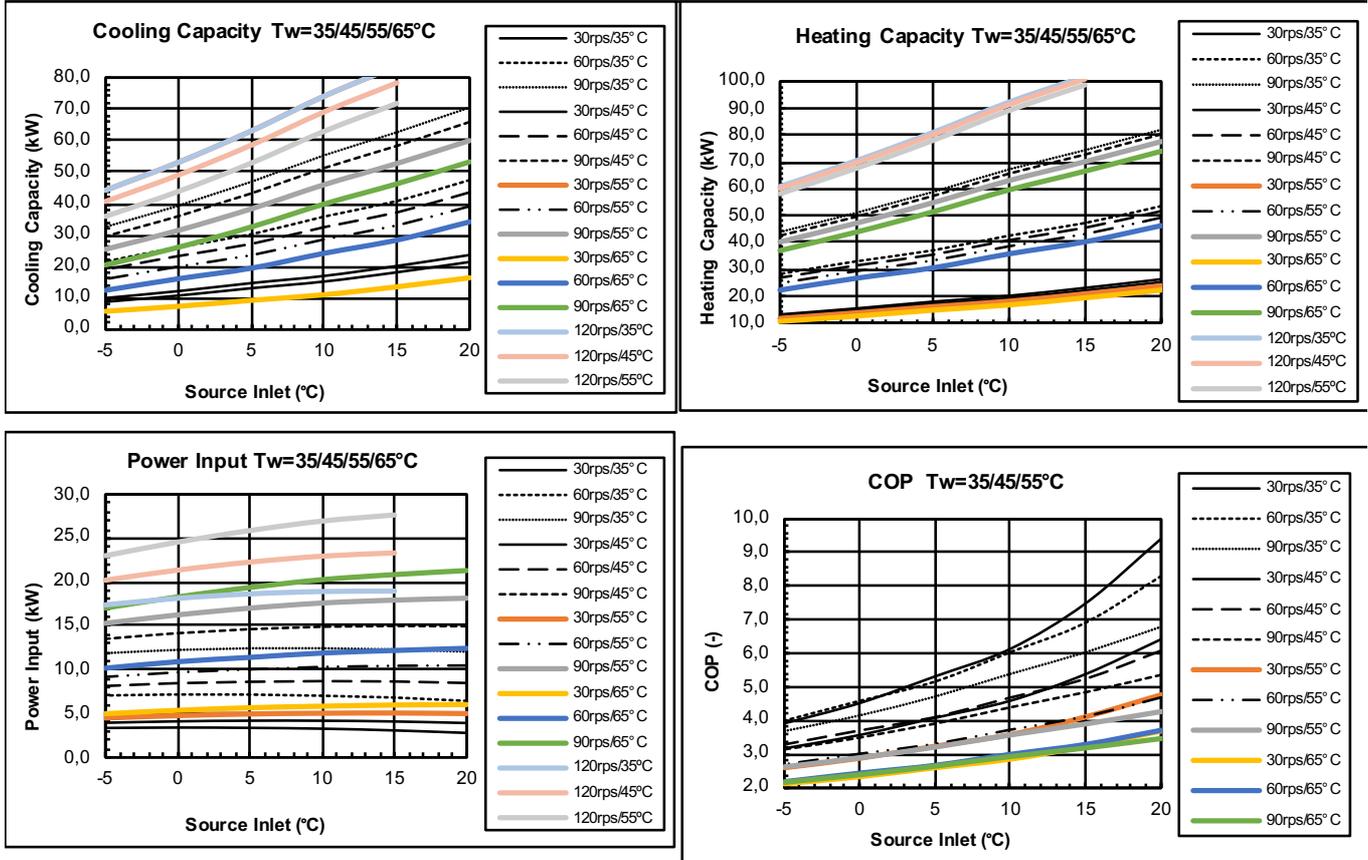
Performance Tolerance EN14511

** according to IEC 60335-2-40:2022

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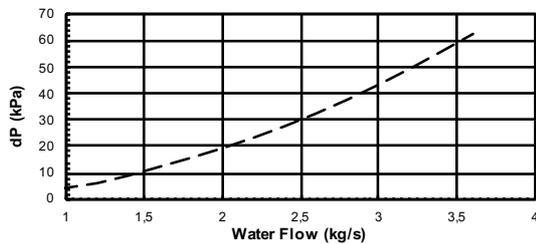
Performance *



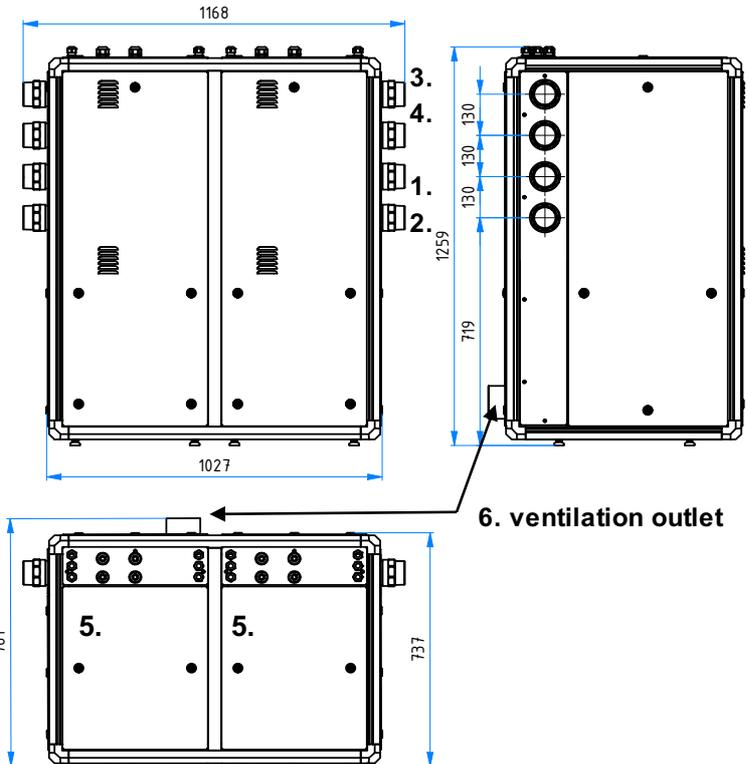
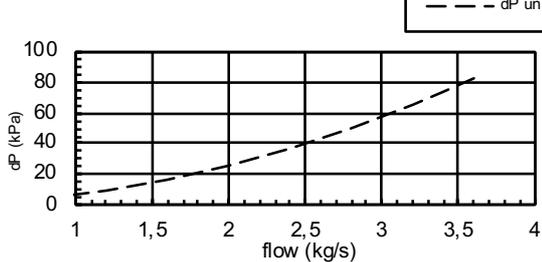
Dimensions, Connections

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

Unit Pressure Drop
Condenser



Unit Pressure Drop Evaporator



6. ventilation outlet