

## Technical Data AQ90IP

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

### 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)	2,09	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	1,40	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	2,1	m	
Pump Motor	-	W	

### Refrigerant Circuit

Refrigerant	R290		
Charge	2x0,8	kg	
Minimum Airflow**	30	m <sup>3</sup> /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	3x400	V
Frequency	50	Hz
Max. Current (AH)	50	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	20/65	°C

\*B0W35, acc. to EN14511, at 60rps

"B0" Brine Inlet 0°C

"W35" Water Outlet 35°C

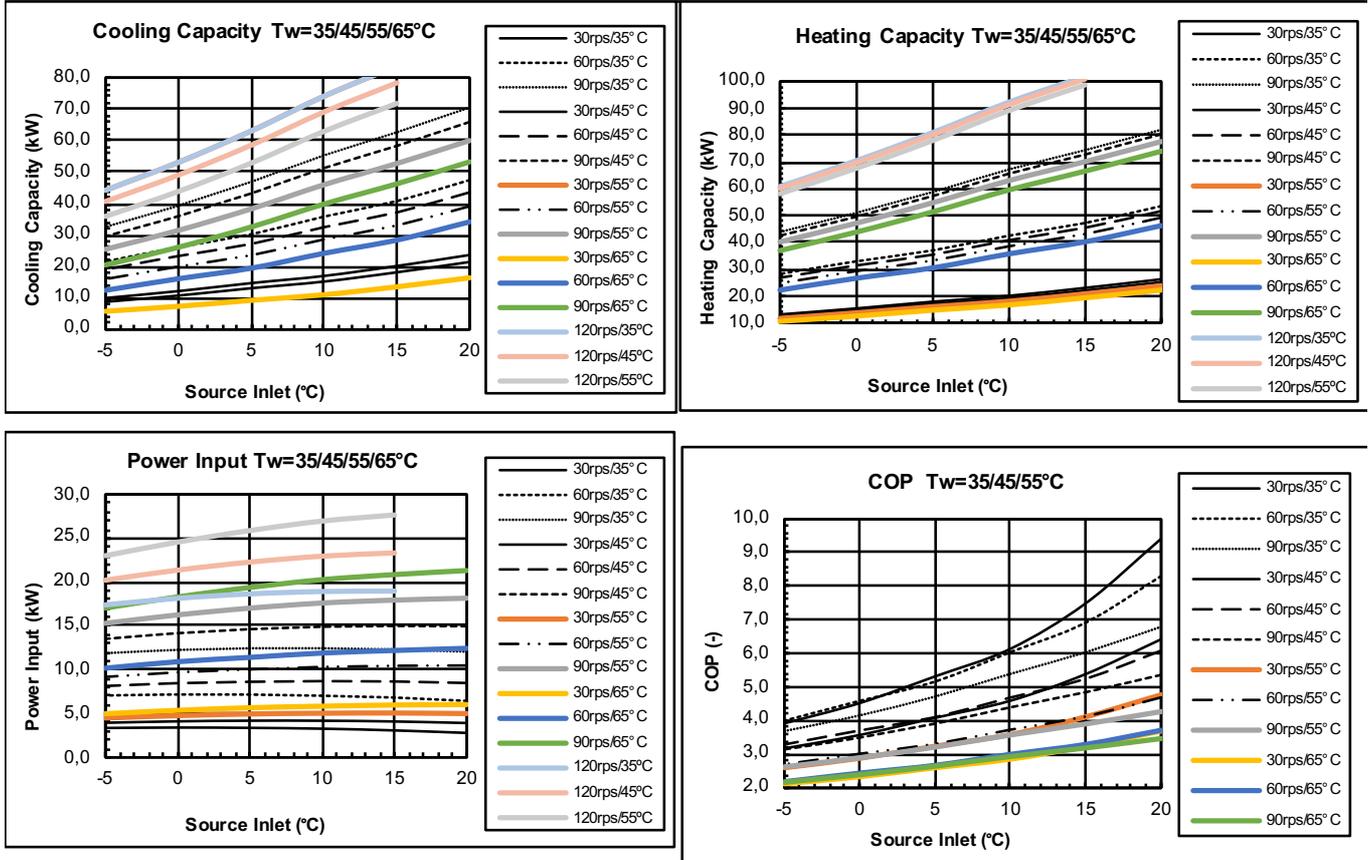
Performance Tolerance EN14511

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

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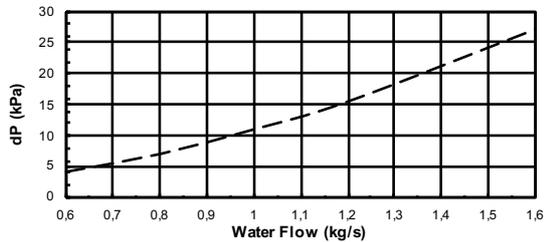
### Performance \*



### 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

