Standard Report

Vasil Ciconkov (7/18/2023 1:32:19 PM)

AquaSnap 30RQ- 070R -A

Reversible air-to-water heat pump with scroll compressor

Performance Information

Mode		Cooling	Heating
Cooling Capacity (2)	kW	65.2	-
Heating Capacity (2)	kW	-	67.2
Instantaneous Heating Capacity (1)	kW	-	67.2
Cooling Efficiency (EER) (2)	kW/kW	2.90	-
Heating Efficiency (COP) (2)	kW/kW	-	3.07
Unit Power Input (2)	kW	22.5	21.9
Sound power level (LwA) (2)	dB(A)	89.5	-
Sound Pressure Level at 10.0m (LpA) (2)	dB(A)	57.5	-
Minimum Capacity (3)	kW	35.6	-
Maximum Capacity	kW	65.2	-

(1) Not certified value not taking the potential hot gas defrost cycles into account resulting of the climatic outdoor conditions.
(2) All performances are compliant with EN14511 – 3 : 2022. Sound power level according to ISO9614 – 1.
(3) Due to the minimum flow rate allowable a lower inlet water temperature might have to be specified to achieve this performance.

Operating Conditions

System element			Cooling	Heating
Water heat exchanger				
Fluid	Fluid Type		Fresh Water	Fresh Water
	Fouling Factor	(sqm-K)/kW	0	0
	Leaving Temperature	°C	7.0	45.0
	Entering Temperature	°C	12.0	40.0
	Fluid Flow	l/s	3.12	3.24
	Total Pressure Drop	kPa	38.2	35.0
Air heat exchanger				
Air	Entering Air Temperature (dry bulb)	°C	35.0	7.0
	Entering Air Temperature (wet bulb)	°C	-	6.0
	Relative Humidity	%	-	86.7
Altitude		m	0	

Non contractual picture

Seasonal Efficiency(4)(5)

Allowed applications for CE mark:		
Low Temp. Comfort Heating : T<55°C*	**SCOP 30/35°C | ηs heat**	**3.67 | 144**
Comfort Cooling : T>=2°C	SEER 12/7°C | ηs cool	4.25 | 167
Comfort Cooling : T>=13°C	SEER 23/18°C | ηs cool	5.59 | 220
High Temp. Process Cooling : T>=2°C	SEPR 12/7°C	5.80
Other Application:		
Intermediate Temp. Comfort Heating	SCOP 40/45°C | ηs heat	3.24 | 126

(4) *** ECODESIGN Compliant as per regulation (EU) N°813/2013**
(5) All data related to seasonal efficiency are given for standard units and main options (Brine pump energy efficiency...).

Unit Information

Manufacturing Source		Montluel
RefrigerantType		R-32
Refrigerant Weight	kg	9
Tonnes CO2 Equivalent	Tonnes	6
Number of Refrigerant Circuit		1
Number of Passes (Evaporator)		1
Number of Compressor		2
Number of Fan		1
Fan Power Input	kW	1.71
Operating / Shipping Weight	kg	506/500
Unit Dimensions (LxWxH)	mm	2109x1090x1330

Electric Information

Unit Voltage	V-Ph-Hz	400-3-50
Standby Power	W	160
Power Factor		0.84
Electrical Circuit		**Supply** 1
Maximum Current	A	54
Startup Current	A	177

Documentation

	PSD
	IOM
	Technical drawing
	Revit file

CARRIER participates in the ECP program for Liquid Chilling Packages and Hydronic Heat Pumps. Check ongoing validity of certificate:www.eurovent-certification.com.
Outside the scope of AHRI Air-Cooled Water-Chilling Packages Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).