Standard Report

Date: 05/06/21 10:54

Prepared By: Leo vanBeek

61AF 055B

Air-to-water heat pump

Performance Information		
Mode		**Heating**
Heating Capacity (1)	kW	38.8
Heating Efficiency (COP) (1)	kW/kW	2.15
Unit Power Input (1)	kW	18.1
Sound Power Level (LwA) (1)	dBA	80
Sound Pressure Level at 10.0 m (LpA) (1)	dBA	49

(1) All performances are compliant with EN14511 - 3 : 2018. Sound power level according to ISO9614 - 1.

Additional information (Not certified)		
"Instantaneous" Heating Capacity (*)	*kW*	*41.8*

(*) Not certified value not taking the potential hot gas defrost cycles into account, resulting of the climatic outdoor conditions.

Operating Conditions			
System element			**Heating**
Evaporator			
Air	Entering Air Temperature (dry bulb)	°C	-3.0
Air	Entering Air Temperature (wet bulb)	°C	-4.0
Air	Relative Humidity	%	79
Condenser			
Fluid	Fluid Type		Fresh Water
Fluid	Fouling Factor	(sqm-K)/kW	0
Fluid	Leaving Temperature	°C	65.0
Fluid	Entering Temperature	°C	55.0
Fluid	Fluid Flow	l/s	1.02
Fluid	Total Pressure Drop	kPa	2.35
Altitude		m	0

Unit Configuration	
15	Low noise level
25	Compressor Soft Starter

Non contractual picture

Seasonal Efficiency (3)		
Allowed applications for CE mark:		
Low Temp. Comfort Heating : T< 55°C	SCOP 30/35°C | ηs heat	3.66 | 143
Medium Temp. Comfort Heating : T≥ 55°C*	**SCOP 47/55°C | ηs heat**	**3.15 | 123**

*** ECODESIGN Compliant as per regulation (EU) N°813/2013**

(3) All data related to seasonal efficiency are given for standard units and main options (Brine, pump, energy efficiency,...).

Unit Information		
Manufacturing Source		Montluel
Refrigerant Type		R407C
Refrigerant Weight	kg	13
Tonnes CO2 Equivalent	Tonnes	23
Number of Refrigerant Circuit		1
Number Of Compressor		1
Number Of Fan		1
Operating / Shipping Weight	kg	564/551
Unit Dimensions (LxWxH)	mm	1114x2110x1330

Electric Information		
Unit Voltage	V-Ph-Hz	400-3-50
Standby Power	kW	0.0950
Power Factor		0.876
		Circuit 1
Maximum Current	A	38
Start Up Current	A	99
Current at Eurovent Conditions	A	27

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.

Acoustics Report

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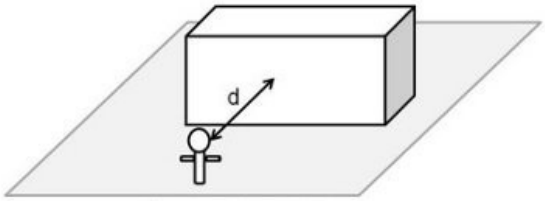
Acoustic Information									
Octave Band Center Frequency	**Hz**	**125**	**250**	**500**	**1K**	**2K**	**4K**	**8K**	**Total**
Sound Power at Chiller Acoustic Center	dB	86	81	79	75	71	67	-	88
A-Weighted Sound Power	dBA	70	72	75	75	72	68	-	80
Sound pressure at specified distance in a free field	dB	55	49	47	43	39	35	-	57
A-Weighted Sound Pressure Level	dBA	39	40	44	43	40	36	-	49

Acoustic Notes

d - Horizontal Distance From Chiller to Receiver = 10.0 m
Estimated Sound Power levels - dB re: 1 picowatt
Estimated Sound Pressure levels - dB re: 20 micropascal
Estimated sound levels given above are assumed to originate at the acoustic center of the chiller.



Sound Power level Lw in accordance with ISO 9614-1. Only the Total Sound Power level Lw is certified by Eurovent, at Full Load in cooling mode, with all fans and pumps running at nominal speed, and for inlet air temperature at the condenser between 30°C and 35°C. The sound levels by octave band are guideline values only and not contractually binding.

Estimated average sound pressure Lp at a given distance on a reflective surface in a free field environment.

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