

61AF 105B

Air-to-water heat pump

Performance information

Mode		Heating
Heating Capacity ⁽¹⁾	kW	102
Instantaneous Heating Capacity ^(*)	kW	102
Heating Efficiency (COP) ⁽¹⁾	kW/kW	4.26
Unit Power Input ⁽¹⁾	kW	23.9
Sound Power Level (LwA) ⁽¹⁾	dB(A)	82
Sound Pressure Level at 10.0 m (LpA) ⁽¹⁾	dB(A)	51

(1) All performances are compliant with EN14511 – 3 : 2018. Sound power level according to ISO9614 – 1.
 (*) Not certified value not taking the potential hot gas defrost cycles into account, resulting of the climatic outdoor conditions.

Operating Conditions

System element		Heating
Water heat exchanger		
Fluid	Fluid Type	Fresh Water
	Fouling Factor (sqm-K)/kW	0.00
	Leaving Temperature °C	35.0
	Entering Temperature °C	30.0
	Fluid Flow l/s	4.89
	Total Pressure Drop kPa	21.5
Air heat exchanger		
Air	Entering Air Temperature (dry bulb) °C	7.0
	Entering Air Temperature (wet bulb) C	6.0
	Relative Humidity %	86.7
	Altitude m	0

15 Low noise level



Non contractual picture

Seasonal efficiency⁽³⁾

Allowed applications for CE mark:

Low Temp. Comfort Heating : T<55°C*	SCOP 30/35°C η _s heat	3.62 142
Medium Temp. Comfort Heating : T>=55°C*	SCOP 47/55°C η _s heat	



* 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
RefrigerantType	R407C
Refrigerant Weight	kg 26
Tonnes CO2 Equivalent	Tonnes 47
Number of Refrigerant Circuit	1
Number of Passes (Evaporator)	1
Number of Compressor	2
Number of Fan	2
Operating / Shipping Weight	kg 1024/999
Unit Dimensions (LxWxH)	mm 2273x2122x1330

Electric information

Unit Voltage	V-Ph-Hz	400-3-50
Standby Power	kW	0.160
Power Factor		0.876
Electrical Circuit		Circuit 1
Maximum Current	A	76
Startup Current	A	227

Documentation

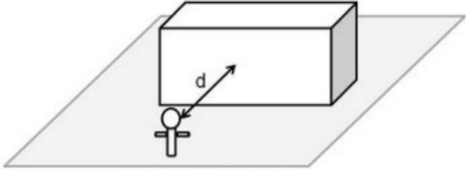
	PSD
	IOM
	Technical drawing
	Revit file

Acoustic Information								
Octave Band Center Frequency	Hz	125	250	500	1000	2000	4000	Total
Sound Power at Chiller Acoustic Center	dB	82	84	81	77	72	64	NO_DATA
A-Weighted Sound Power	dBA	66	75	78	77	73	65	NO_DATA
Sound pressure at specified distance in a free field	dB	50	52	50	45	40	32	56
A-Weighted Sound Pressure Level	dBA	34	43	46	45	42	33	51

Tolerance on Global Level at part load: +/-4dBA

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 L_w in accordance with ISO 9614-1. Only the Total Sound Power level L_w 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 L_p at a given distance on a reflective surface in a free field environment.