

61WG 060A

Water-cooled liquid chillers water source heat pump

Performance Information		
Mode		Heating
Heating Capacity (1)	kW	49.6
Cooling Capacity to Source (1)	kW	27.7
Heating Efficiency (COP) (1)	kW/kW	2.24
Unit Power Input (1)	kW	22.2
Sound Power Level (LwA) (1)	dB(A)	72
Sound Pressure Level at 10.0 m (LpA) (1)	dB(A)	41
Minimum Capacity (2)	kW	24.7
Maximum Capacity	kW	49.6

- (1) All performances are compliant with EN14511 - 3 : 2018. Sound power level according to ISO9614 - 1.
(2) 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		Heating
Evaporator		
Fluid Type		Ethylene Glycol 15%
Fouling Factor	(sqm-K)/kW	0
Leaving Temperature	°C	-4.8
Entering Temperature	°C	0.0
Fluid Flow	l/s	1.42
Total Pressure Drop	kPa	5.00
Condenser		
Fluid Type		Fresh Water
Fouling Factor	(sqm-K)/kW	0
Leaving Temperature	°C	65.0
Entering Temperature	°C	55.0
Fluid Flow	l/s	1.20
Total Pressure Drop	kPa	5.00
Altitude	m	0

Unit Configuration	
25	Compressor Soft Starter
272	High-temp. water prod. with glycol solution on the evap.
70F	External disconnect handle



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} 6.02 233
Medium Temp. Comfort Heating : Tz 55°C*	SCOP 47/55°C η _{s heat} 4.96 190



* 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	R410A
Refrigerant Weight	kg 8
Tonnes CO2 Equivalent	Tonnes 16
Number of Refrigerant Circuit	1
Number Of Compressor	2
Operating / Shipping Weight	kg 392/374
Unit Dimensions (LxWxH)	mm 1489x905x901

Electric Information	
Unit Voltage	V-Ph-Hz 400-3-50
Standby Power	kW 0.0300
Power Factor	0.820
Circuit 1	
Maximum Current	A 40
Start Up Current	A 99
Current at Eurovent Conditions	A 27

Documentation	
	PSD
	IOM
	Technical Drawing
	Revit File

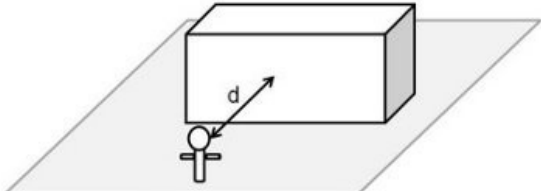


Acoustics Report

Date: 05/19/21 09:41

Prepared By: Leo vanBeek

Acoustic Information									
Octave Band Center Frequency	Hz	125	250	500	1K	2K	4K	8K	Total
Sound Power at Chiller Acoustic Center	dB	59	69	68	67	66	56	-	74
A-Weighted Sound Power	dBA	43	61	65	67	67	57	-	72
Sound pressure at specified distance in a free field	dB	28	38	37	36	35	24	-	43
A-Weighted Sound Pressure Level	dBA	12	30	34	36	36	25	-	41

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.									



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 Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).