

PROJECT NAME:

UNSAVED

FIELD OF APPLICATION:

Heat Pumps
Air Cooled

UNIT:

01 DEFAULT

Influential options:
Excellence

SELECTION CONDITIONS

Cooling

Outdoor air temperature	°C	35.0
Return water temperature load side	°C	14.0
Leaving water temperature load side	°C	7.00

Heating

Leaving water temperature load side	°C	30.0
Return water temperature load side	°C	26.0
Outdoor air temperature	°C	-15.0

General

Delta T in cooling	°C	7.0
Delta T in heating	°C	4.0
Glycol on load loop	%	30.0

Sound Pressure Level at Distance

Distance from unit	m	1.00
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PERFORMANCES ACCORDING TO EN 14511:2022

Cooling

Cooling capacity (EN14511:2022)	kW	104
Total power input (EN14511:2022)	kW	35.2
EER (EN 14511:2022)		2.95

Heating

Heating capacity (EN14511:2022)	kW	56.7
Total power input (EN14511:2022)	kW	28.0
COP (EN 14511:2022)		2.03

DIRECTIVE ERP (ENERGY RELATED PRODUCTS)

Cooling

SEER		4.93
Seasonal space cooling energy efficiency (sc)	%	194
Rated cooling capacity	kW	79.0

Heating

SCOP W55		3.38
SCOP W35		4.60

PERFORMANCES (GROSS VALUE)

Cooling

Cooling capacity	kW	104
Compressor power input	kW	34.3
Total power input	kW	34.4
EER		3.02
EER compressor		3.04
Water flow-rate	l/s	3.91
Pressure drop load side exchanger	kPa	28.2

Heating

Heating capacity	kW	56.6
Compressor power input	kW	27.7
Total power input	kW	27.8
COP		2.04
COP compressor		2.04
Compressor RPM	%	100

GENERAL TECHNICAL SPECIFICATIONS

REFRIGERANT CIRCUIT

Type of refrigerant		R-32
Global Warming Potential		675
Refrigerant charge (C1)	kg	26.5

Compressor

Type of compressors		SCROLL INVERTER
No. of compressors		2.00

WATER CIRCUIT

Max water side pressure	MPa	1.00
Water fittings		2 1/2"

External Section Fans

Type of fans		BRUSHLESS DC MOTOR
Number of fans		3.00
Installed unit power	kW	1.50
Standard airflow	l/s	18250

ELECTRICAL DATA

Power supply

Voltage		380-415V 3N~ 50Hz
F.L.I. - Total	kW	47.5
F.L.A. - Total	A	75.3
M.I.C. - Value	A	43.8

DIMENSIONS

Dimensions

Shipping length	mm	4000
Shipping depth	mm	1284
Shipping height	mm	1908

WEIGHTS

WEIGHT

Shipping weight	kg	1392
Operating weight	kg	1919

NOISE LEVELS

Noise Levels

Sound power level: Hz								Sound pressure level	Sound power level
63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
82.0	87.0	84.0	78.0	77.0	75.0	75.0	70.0	65.0	83.0

NOTES

the sound levels refer to the unit at full load, in the rated test conditions.
The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field.

Noise levels are determined using the tensiometric method (UNI EN ISO 9614-2)

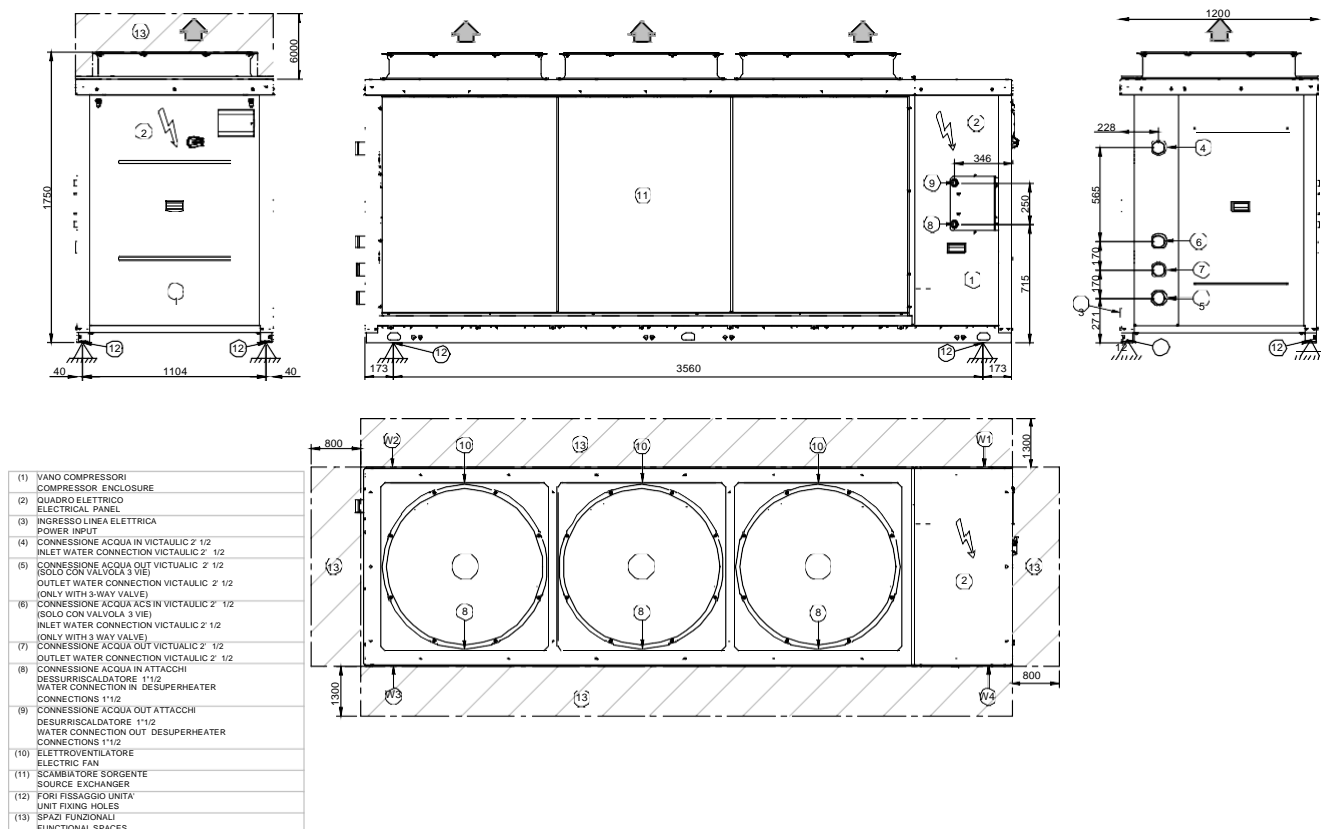
Verify that the desired working conditions are within the operating range given in the technical bulletin

SELECTED CONFIGURATION

LIQ3	Fluid with ethylene glycol of 30%	1
		1
B	Water low temperature	1
EXC	Excellence	1
SC	Acoustic configuration with compressor soundproofing	1
400TN	Supply voltage 400/3/50+N	1
IOM18	Italian and English manuals	1
CCHY	Hydrophilic aluminium fins coil	1
ABU	Flush hydraulic connections	1
HYGU1V	User side hydronic assembly with 1 inverter pump	1
ACC	Storage tank	1
TCDC	drain pan with electrical heater	1
VENDC	DC high efficiency fan	1
EVPHE	plate exchanger	1
EVE	Electronic expansion valves	1
PM	phase monitor	1
SNB	On board main switch	1
MOB	serial port RS485 with Modbus protocol	1
ENEMON	Energy monitoring on HMI and via Modbus	1
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	1
IFWX	Steel mesh strainer on the water side	1
AVIBX	Anti-vibration mount support	1

DIMENSIONAL DRAWINGS (ROW 1)

AIR-WATER HEAT PUMP FOR OUTDOOR INSTALLATION (R32-400TN-IOM18)



The presence of optional accessories may result in a substantial variation of the weights shown in the table.

DIMENSIONS (mm)		
A - Length	B - Width	C - Height
3906	1184	1750

WEIGHTS

WEIGHT

Shipping weight	kg	1392
Operating weight	kg	1919

	Offer Referent:	Offer n:	Application:
Check ongoing validity of certificate:			
Ver. 1.0.7 - 2.0.4.11 4172f3b			
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