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- SALES NETWORK

("Distribution" area)

- THE COMPANY

("Contacts" area)

Object: Technical data

Oct 14, 2013

Dear Sir user

We thank you for using our web site to chose the products of your interest. The technical information you requested have been enriched by some additional details to complete the description of our products. Do not hesitate to contact us for any further information you might need. Yours faithfully

Clivet Web Service

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MSAT 121Air cooled condensing unit for outdoor installation(R407C-400TN-IOMM)



COMPRESSOR

hermetic orbiting scroll compressor complete with motor over-temperature and over-current devices and protection against excessive gas discharge temperature. Fitted on rubber antivibration mounts and complete with oil charge.

STRUCTURE

load-bearing structure made of "aluzink" sheet metal capable of offering excellent mechanical characteristics and long-lasting resistance to corrosion.

PANELLING

external panels in prepainted aluminium especially indicated in outdoor installation due to its superior resistance to corrosion avoiding periodic painting. Side panels are easily removable and allow complete access to unit components. Internal sound proof lining reduces sound pressure levels.

EXTERNAL EXCHANGER

direct expansion finned exchanger, made from copper pipes in staggered rows and mechanically expanded to the fin collars. The fins are made from aluminium with a corrugated surface and adequately distanced to ensure the maximum heat exchange efficiency.

FAN

Low speed axial fan directly driven by single phase external rotor motor with incorporated thermal overload. Housed in aerodynamically shaped enclosures to increase the efficiency and reduce the noise level. Complete with fan guard in order to help against fortuitous contact with the blades.

REFRIGERANT CIRCUIT

each circuit features:

- liquid receiver
- high and low pressure gauges
- High pressure safety pressure switch
- Low pressure safety switch
- liquid and gas shut-off valves with service fitting
- high compressor discharge temperature safety thermostat

ELECTRICAL PANEL

- main line isolator switch
- compressor fuses
- compressor power supply remote control switch
- auxiliary circuit fuse
- Terminals for the link to internal unit and power supply.
- current limiter for compressor protection
- microprocessor control section:
- compressor overload protection and timer
- Separate alarms visualization (high pressure, low pressure, overload compressor, probe breakdown).
- centralised alarms with remote signalling
- condenser control allows the unit to operate, in coolnig only, at low outside air temperatures (temperature actuated fans speed control).
- Free contacts for cumulative signals of the alarms.

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CONFIGURATION

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UNIT CON	FIGURATION	Q.TY	
	Unit: MSAT 121	1	
R407C	R-407C refrigerant	1	
400TN	Supply voltage 400/3/50+N	1	
IOMM	Multilingual installation and operation manual (I-GB-D-E-F)	1	
ccs	Standard condenser coil	1	
KCX	connection set (Accessory separately supplied)	1	
SB655	SB655 Energy electronics	1	
AMRX	Rubber antivibration mounts (Accessory separately supplied)	1	
PMX	phase monitor (Accessory separately supplied)	1	

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TECHNICAL DATA

MSAT 121Air cooled condensing unit for outdoor installation(R407C-400TN-IOMM)



SELECTED OPERATION CONDITIONS

COOLING	SELECTED	
external exchanger air intake	°C	32.0

satured suction temperature (Dew point)	°C	9.50
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PERFORMANCE DATA

COOLING	SELECTED	
Cooling capacity	kW	39.6

Compressor power input	kW	10.8

THE TECHNICAL DATA ARE APPROXIMATE AND MAY BE MODIFIED BY THE MANUFACTURER WITH NO REQUIREMENT FOR ADVANCE NOTICE

TECHNICAL DATA REFER TO THE TECHNICAL BULLETIN

GENERAL		
Refrigeration circuits	Nr	1.00
WEIGHT AND DIMENSIONS		
Shipping weight	kg	200
Shipping length	mm	1650
Shipping depth	mm	610
Shipping height	mm	1355
Length	mm	1573
Depth	mm	557
Height	mm	1225
COMPRESSOR		
No. of compressors	Nr	1.00
Type of compressors		SCROL L
Std Capacity control steps	Nr	1.00
EXTERNAL EXCHANGER		
OPERATING RANGE (COOLING)		
Max entering air temperature	°C	46.0

>>> EXTERNAL EXCHANGER							
Min. entering air temperature	(4.1)	°C	-10.0				
EXTERNAL SECTION FANS							
Type of fans			AX				
Number of fans		Nr	4.00				
Standard airflow		l/s	3425				
Installed unit power		kW	0.145				
CONNECTIONS							
Gas connection			35				
Liquid connection			22				
ELECTRICAL DATA							
F.L.A FULL LOAD CURRENT AT MAX ADMI	SSIBLE COND	ITIONS					
F.L.A Total		Α	27.5				
F.L.I FULL LOAD POWER INPUT AT MAX ADMISSIBLE CONDITIONS							
F.L.I Total		kW	15.3				
M.I.C. MAXIMUM INRUSH CURRENT							
M.I.C Value		Α	143				

^(4.1)external exchanger air in quiet

SOU	SOUND LEVELS								
	Sound power level (dB)							Sound	Sound
	Octave band (Hz)						pressure level	power level	
63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
77	80	80	73	67	71	60	63	61	77

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.

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DIMENSIONAL DRAWINGS MSAT 121Air cooled condensing unit for outdoor installation(R407C-400TN-IOMM)



DIMENSIONS (mm)																		
	Α	В	С	D	E	F	G	н	ı	L	N	0	Length	Depth	Height	Α-	В-	C-
L																Length	Width	Height
	1573	557	1225	0.000	80.0	75.0	508	42.0	1543	0.000	125	0.000	1573	557	1225	1573	557	1225

WEIGHT DISTRIBUTION (Kg)						
Shipping weight	Operating weight					
200	195					

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