CLIMAVENETA

TECHNICAL SELECTION
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HEATING

TECHNICAL SELECTION

AW-HT /LN-CA-E /0524

High efficiency heat pump, air source for outdoor installation, high water temperature

R HFC R-407C

SCROLL

Code		AW-HT /LN-CA-E /0524
Version		LN-CA-E
Size		0524
Power supply	V/ph/Hz	400/3/50

MITSUBISHI ELECTRIC
Changes for the Better

1.1 PERFORMANCE AT DESIGN CONDITIONS

RUNNING CONDITIONS		
HEAT EXCHANGER USER SIDE		
Fluid type		WATER
Glycol	%	0
Fouling factor	m²K/kW	0.000
Fluid inlet temperature (heating mode)	°C	60.00
Fluid outlet temperature (heating mode)	°C	65.00
Water flow	l/s	6.645
Pressure drop at the heat exchanger	kPa	18.5
Available unit head	kPa	0.00
OUTDOOR CONDITION		
Air temperature (heating mode)	°C	-5.0

HEATING (EN14511)		
Total heating capacity	kW	122.7
Compressors power input (heating mode)	kW	58.46
Fan power input (heating mode)	kW	4.80
Total power input	kW	62.30
COP	kW/kW	1.970

SCOP		
SCOP Official (Reg. 813/2013 EU)		
LOW TEMPERATURE		
Type climate		Average
Temperature application	°C	35
Type flow		Fixed
Type Temperature		Fixed
Bivalent temperature	°C	-7.0
PDesign	kW	117
Qhe	kWh	72598
SCOP		3.32
Performance ηs	%	130
Seasonal efficiency class		-

The performance shown are obtained from theoretical calculations and tolerances will apply.Rpt.version:1.0.6.0

MEDIUM TEMPERATURE		
Type climate		Average
Temperature application	°C	55
Type flow		Fixed
Type Temperature		Variable
Bivalent temperature	°C	-7.0
PDesign	kW	126
Qhe	kWh	83178
SCOP		3.13
Performance ηs	%	122
Seasonal efficiency class		-

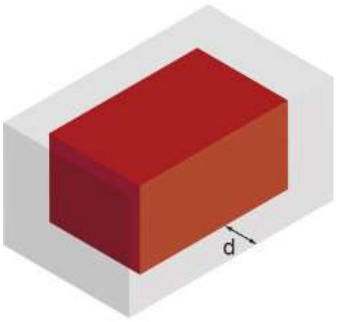
1.2 FANS

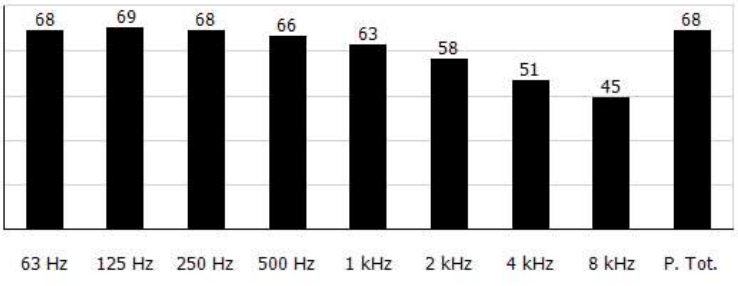
Fans type		AXIAL AC
Quantity	N°	4
Total fans power input	kW	4.80
F.L.I.	kW	4x2
F.L.A.	A	4x4.1

HEATING		
Total fans power input	kW	4.80
Air flow	m³/s	18.04
Fan available static pressure	Pa	0

1.3 NOISE DATA

SOUND DATA OUTDOOR HOT									
Frequencies	Hz	63	125	250	500	1000	2000	4000	8000
Sound power (spectrum)	dB	88	89	88	86	83	78	71	65
Total sound power level in heating	dB(A)				88				
Sound pressure level (spectrum)	dB	68	69	68	66	63	58	51	45
Total sound Pressure	dB(A)				68				





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Note		
Distance	m	1
Note		Average sound pressure level at 1 m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. Sound power on the basis of measurements taken in compliance with ISO 9614.

1.4 ELECTRICAL DATA

Power supply	V/ph/Hz	400/3/50
F.L.I. - Max absorbed power	kW	80.00
F.L.A. - Max absorbed current	A	130
S.A. - Inrush current	A	269

1.5 WEIGHT & DIMENSIONS

A	mm	4110
B	mm	2220
H	mm	2150
Operating weight	kg	2410
R1	mm	2000
R2	mm	2000
R3	mm	1100
R4	mm	2000