

TECHNICAL SELECTION

Software version: ELCA World v. 1.7.9.0

User: Adri Darmawan

Database version: 1.8.9.0

Print data:27/09/2024 14:19

TECHNICAL SELECTION

SAU/O025M

R HFC R-410A

 **SCROLL**

Model	SAU/O025M
Version	-
Frame	-
Primary circuit type	DIRECT EXPANSION AIR COOLED
No. Circuits	N° 1
Refrigerant	R410A

1	TECHNICAL SELECTION	pg.3
1.1	Indoor unit	pg.3
1.2	Remote condenser	pg.4

1 TECHNICAL SELECTION

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EC FAN

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SCROLL

1.1 INDOOR UNIT

MAIN CIRCUIT

DESIGN CONDITIONS

Dry bulb temperature	°C	24.0
Relative humidity	%	35
Altitude	m	0
Air flow	m ³ /h	7800
ESP External Static Pressure	Pa	20
Outdoor air temperature	°C	35.0
Coil working pressure		-

PERFORMANCE AT DESIGN CONDITIONS

Total cooling capacity gross	kW	24.3
Sensible cooling capacity gross	kW	24.3
Net cooling capacity	kW	22.7
Net sensible cooling capacity	kW	22.7
SHR		1.00
EER (Indoor unit)	kW/kW	3.24
Total power input (Comp.+fans)	kW	7.51
Leaving air temperature	°C	15.3
Leaving air relative humidity	%	60
Effective heat exchange area		-

COMPRESSORS

Compressor type		SCROLL
Compressors nr.	N°	1
Compressors power absorption	kW	5.91

FANS

Fans type		EC fan
Quantity	N°	1
Air flow	m ³ /h	7800
Fans power input	kW	1.60
Static pressure maximum attainable	Pa	363
SPF (Specific Power Factor)	W / l/s	0.74

ACCESSORIES

ELECTRICAL HEATER

Heater description		Tubular-Finned 9kW
Quantity	N°	1
Steps	N°	3
Electrical power abs.	kW	9.00
Max absorbed current (FLA)	A	13.6
Power supply	V/ph/Hz	380/3/50

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.7.0

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HUMIDIFIER

Humidifier type		Steam Humidifier 5kg/h
Quantity	N°	1
Capacity	kg/h	5.0
Electrical power abs.	kW	3.75
Max absorbed current (FLA)	A	5.70
Power supply	V/ph/Hz	380/3/50

FILTERS

Accessory filter type	COARSE 60% (ISO EN 16890)
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NOISE DATA

Spectrum	Hz	63	125	250	500	1000	2000	4000	8000	Tot
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		66	68	69	65	67	66	59	55	72
Total sound Pressure		50	52	53	49	51	50	43	39	56
Distance	m	1								

Note

Note

Average sound pressure level, at 1 m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

WEIGHT & DIMENSIONS

A	mm	890
B	mm	990
H	mm	1990
Weight	kg	315

ELECTRICAL DATA (refer to indoor unit)

Power supply	V/ph/Hz	380/3+N/50
Max Electrical power absorbed (FLI)	kW	20.0
Max absorbed current (FLA)	A	32.8
Max inrush current (SA)	A	111
Power input (OI)	kW	7.51

1.2 REMOTE CONDENSER

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version: 1.0.7.0

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MAIN CIRCUIT**REMOTE CONDENSER**

Code		C29
Quantity	N°	1
Version		STD
Circuits	N°	1
Outdoor air temperature	°C	35.0
Condensing temperature	°C	50.6
Air flow	m³/h	8000
Rejection capacity	kW	29.9

FANS

Fans power input	kW	0.59
Quantity	N°	1
Project pressure	Pa	0

WEIGHT & DIMENSIONS

Dimension A	mm	1330
Dimension B	mm	1108
Dimension H	mm	830
Weight	kg	70
Packaged dimension A	mm	1625
Packaged dimension B	mm	1130
Packaged dimension H	mm	1400
Package weight	kg	97

ELECTRICAL DATA

Power supply	V/ph/Hz	220/1/50
Power input (OI)	kW	0.59
Total power input	kW	0.60
Max absorbed current	A	3.00

AIR SUPPLY REMOTE CONDENSER

Supply air direction None air delivery selected

NOISE DATA

Spectrum	Hz	63	125	250	500	1000	2000	4000	8000	Tot
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		53	64	67	70	68	64	57	48	78
Total sound Pressure		38	49	52	55	53	49	42	33	63
Distance	m	1								

Note

Note Average sound pressure level, at 1 m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

