

## 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 14:21

# TECHNICAL SELECTION

DAU/O050M

R HFC R-410A

SCROLL

Model	DAU/O050M
Version	-
Frame	-
Primary circuit type	DIRECT EXPANSION AIR COOLED
No. Circuits	N° 2
Refrigerant	R410A

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EC FAN

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# 1.1 INDOOR UNIT

## MAIN CIRCUIT

### DESIGN CONDITIONS

Dry bulb temperature	°C	24.0
Relative humidity	%	35
Altitude	m	0
Air flow	m <sup>3</sup> /h	14000
ESP External Static Pressure	Pa	20
Outdoor air temperature	°C	35.0
Coil working pressure		-

### PERFORMANCE AT DESIGN CONDITIONS

Total cooling capacity gross	kW	50.3
Sensible cooling capacity gross	kW	50.3
Net cooling capacity	kW	46.9
Net sensible cooling capacity	kW	46.9
SHR		1.00
EER (Indoor unit)	kW/kW	3.25
Total power input (Comp.+fans)	kW	15.5
Leaving air temperature	°C	14.0
Leaving air relative humidity	%	65
Effective heat exchange area		-

### COMPRESSORS

Compressor type		SCROLL
Compressors nr.	N°	2
Compressors power absorption	kW	12.1

### FANS

Fans type		EC fan
Quantity	N°	1
Air flow	m <sup>3</sup> /h	14000
Fans power input	kW	3.40
Static pressure maximum attainable	Pa	111
SPF (Specific Power Factor)	W / l/s	0.87

### 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		69	78	78	76	77	76	71	63	82
Total sound Pressure		52	61	61	59	60	59	54	46	65
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	1330
B	mm	990
H	mm	1990
Weight	kg	435

### ELECTRICAL DATA (refer to indoor unit)

Power supply	V/ph/Hz	380/3+N/50
Max Electrical power absorbed (FLI)	kW	24.6
Max absorbed current (FLA)	A	41.1
Max inrush current (SA)	A	127
Power input (OI)	kW	15.5

## 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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**DAU/O050M****MAIN CIRCUIT****REMOTE CONDENSER**

Code		C33
Quantity	N°	2
Version		STD
Circuits	N°	1
Outdoor air temperature	°C	35.0
Condensing temperature	°C	49.0
Air flow	m³/h	9200
Rejection capacity	kW	61.7

**FANS**

Fans power input	kW	0.46
Quantity	N°	2
Project pressure	Pa	0

**WEIGHT & DIMENSIONS**

Dimension A	mm	2005
Dimension B	mm	905
Dimension H	mm	830
Weight	kg	80
Packaged dimension A	mm	2305
Packaged dimension B	mm	1130
Packaged dimension H	mm	1190
Package weight	kg	119

**ELECTRICAL DATA**

Power supply	V/ph/Hz	220/1/50
Power input (OI)	kW	0.46
Total power input	kW	0.60
Max absorbed current	A	2.50

**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		50	64	69	70	68	64	57	48	78
Total sound Pressure		34	48	53	54	52	48	41	32	62
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.

