



TECHNICAL SELECTION

Software version: ELCA World v. 1.6.1.0

User: James Askey

Database version: 1.7.1.0

Print data:16/11/2021 09:57

TECHNICAL SELECTION

i-NEXT DX O 030 M1 S E4

Close control unit, INVERTER direct expansion air cooled



R HFC R-410A

SCROLL

Model	i-NEXT DX O 030 M1 S E4		
Version	O		
Frame	E4		
Primary circuit type	DIRECT EXPANSION AIR COOLED		
No. Circuits	N°	1	
Refrigerant	R410A		

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SCROLL

1.1 INDOOR UNIT

MAIN CIRCUIT

DESIGN CONDITIONS

Dry bulb temperature	°C	21.0
Relative humidity	%	50
Altitude	m	0
Air flow	m³/h	10000
ESP External Static Pressure	Pa	20
Outdoor air temperature	°C	35.0
Coil working pressure		-

PERFORMANCE AT DESIGN CONDITIONS

Total cooling capacity gross	kW	35.1
Sensible cooling capacity gross	kW	33.3
Net cooling capacity	kW	33.1
Net sensible cooling capacity	kW	31.3
SHR		0.95
EER (Indoor unit)	kW/kW	2.88
Total power input (Comp.+fans)	kW	12.2
Leaving air temperature	°C	11.2
Leaving air relative humidity	%	91
Effective heat exchange area		-

PERFORMANCE AT MINIMUM SPEED COMPRESSOR

Total cooling capacity gross	kW	11.5
Sensible cooling capacity gross	kW	10.8
Net cooling capacity	kW	11.3
Net sensible cooling capacity	kW	10.7
SHR		0.94
EER (Indoor unit)	kW/kW	5.75
Total power input (Comp.+fans)	kW	2.00
Leaving air temperature	°C	11.9
Leaving air relative humidity	%	87
Air flow	m³/h	3500

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

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PARTIAL LOADS WITH COMPRESSOR MODULATION

Load	%	100	80	60	40	20
Outdoor air temperature	°C	35.0	35.0	35.0	35.0	35.0
Air flow	m³/h	10000	8067	6133	4200	3500
Total cooling capacity gross	kW	35.1	28.1	21.1	14	7.02
Sensible cooling capacity gross	kW	33.3	26.4	19.6	13.1	6.66
Net cooling capacity	kW	33.1	27	20.5	13.8	6.85
Net sensible cooling capacity	kW	31.3	25.3	19	12.8	6.49
Compressors power absorption	kW	10.2	6.8	4.31	2.36	1.19
Fans power input	kW	2.03	1.14	0.58	0.25	0.17
Total power input (Comp.+fans)	kW	12.2	7.94	4.89	2.61	1.36
Condensing temperature	°C	49.3	46.3	43.4	40.8	39.9
EER (Indoor unit)	kW/kW	2.88	3.54	4.31	5.36	5.16

Note

Note

Note: The columns with bold text identify the area of "cycling", in which the inverter compressor works with cycles of ON / OFF below the minimum modulation frequency (operation only for short periods). PLEASE SELECT THE CORRECT UNIT IN THE MODULATION FIELD.

COMPRESSORS

Compressor type	SCROLL				
Compressors nr.	N°	1			
Compressors power absorption	kW	10.2			

FANS

Fans type	EC BASIC				
Quantity	N°	1			
Air flow	m³/h	10000			
Fans power input	kW	2.03			
SPF (Specific Power Factor)	W / l/s	0.73			

ACCESSORIES

FILTERS

Accessory filter type	COARSE 60% (ISO EN 16890)				
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HUMIDIFIER

Humidifier type	Humidifier 8 kg/h				
Quantity	N°	1			
Capacity	kg/h	8.0			
Electrical power abs.	kW	6.00			
Max absorbed current (FLA)	A	12.4			
Power supply	V/ph/Hz	-			

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		70	70	73	73	69	67	64	58	75
Total sound Pressure		53	53	56	56	52	50	47	41	58
Distance	m	1								

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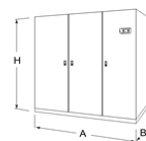
Note

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	1305
B	mm	930
H	mm	1980
Weight	kg	440



ELECTRICAL DATA (refer to indoor unit)

Power supply	V/ph/Hz	400/3+N/50
Max Electrical power absorbed (FLI)	kW	22.9
Max absorbed current (FLA)	A	43.0
Max inrush current (SA)	A	23.0
Power input (OI)	kW	12.2

1.2 REMOTE CONDENSER

MAIN CIRCUIT

REMOTE CONDENSER

Code		GR-Z A B 50 049
Quantity	N°	1
Version		B
Circuits	N°	1
Outdoor air temperature	°C	35.0
Condensing temperature	°C	49.3
Air flow	m³/h	15555
Rejection capacity	kW	44.7

FANS

Fans power input	kW	0.88
Quantity	N°	2
Project pressure	Pa	0

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WEIGHT & DIMENSIONS

Dimension A	mm	2040
Dimension B	mm	718
Dimension H	mm	1100
Weight	kg	86
Packaged dimension A	mm	2300
Packaged dimension B	mm	850
Packaged dimension H	mm	1250
Package weight	kg	123

ELECTRICAL DATA

Power supply	V/ph/Hz	230/1/50
Power input (OI)	kW	0.88
Total power input	kW	1.08
Max absorbed current	A	4.94

AIR SUPPLY REMOTE CONDENSER

Supply air direction	None air delivery selected
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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		-	-	-	-	-	-	-	-	70
Total sound Pressure		-	-	-	-	-	-	-	-	54
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.
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