



Air Conditioning Technical Data

4-way blow ceiling mounted cassette



EEDEN14-131

ACQ-C

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1 Features

- Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Air can be discharged in any of 4 directions
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Easy installation and maintenance
- Control several indoor units at the same time via the Siesta Sky Air group control (optional)

1



Fan only



Air filter



Infrared remote control



Centralised control

2 Specifications

2-1 Technical Specifications				ACQ71C	ACQ100C	ACQ125C	
Power input	Cooling	Nom.	kW	0.067	0.094	0.137	
	Heating	Nom.	kW	0.067	0.094	0.137	
Casing	Material			Galvanised steel			
Dimensions	Unit	Height/Width/Depth	mm	265/820/820	300/820/820		
	Packed unit	Height/Width/Depth	mm	306/916/916	335/916/916		
Weight	Unit		kg	31	39		
	Packed unit		kg	34	42		
Packing	Material			EPS / Corrugated board			
	Weight			kg			
Decoration panel	Colour			White			
	Dimensions	Height/Width/Depth	mm	82/990/990			
	Weight			kg			
Heat exchanger	Length		mm	1,772	1,831		
	Rows	Quantity		3			
	Fin pitch		mm	1.41			
	Face area		m ²	0.3700	0.4600		
	Stages	Quantity		10	12		
	Tube type			Inner Groove			
	Tube material			Copper			
	Tube diameter		mm	7			
	Fin	Type			Slit fin		
		Treatment			Hydrophilic		
	Fan	Type			Turbo fan		
Quantity			1				
Air flow rate		Cooling	High	m ³ /min	24.4	29.2	34.0
				cfm	860	1,030	1,200
			Nom.	m ³ /min	20.5	24.4	29.2
				cfm	725	860	1,030
			Low	m ³ /min	17.6	21.0	26.3
				cfm	620	740	930
		Silent operation	m ³ /min	15.0	17.6	22.1	
			cfm	530	620	780	
		Heating	High	m ³ /min	24.4	29.2	34.0
				cfm	860	1,030	1,200
			Nom.	m ³ /min	20.5	24.4	29.2
				cfm	725	860	1,030
Low			m ³ /min	17.6	21.0	26.3	
	cfm		620	740	930		
Silent operation	m ³ /min	15.0	17.6	22.1			
	cfm	530	620	780			

2 Specifications

2

2-1 Technical Specifications				ACQ71C	ACQ100C	ACQ125C	
Fan motor	Quantity			1			
	Model			MCK28/30E/EW 70W 310VDC	MCK40/50E/EW 100W 310VDC		
	Index of Protection			20			
	Insulation grade			Class "E"			
	Poles			8			
	Drive			Direct drive			
	Speed	Steps			4 + silent + auto		
		Cooling	High/ Medium/Low/Silent operation	rpm	610/520/460/410	680/580/510/435	780/680/620/530
		Heating	High/ Medium/Low/Silent operation	rpm	610/520/460/410	680/580/510/435	780/680/620/530
	Phase x Voltage			V 310VDC			
Full load amps (FLA)	Cooling	A		0.52	0.77	1.12	
	Heating	A		0.52	0.77	1.12	
Sound power level	Cooling	High/Nom./Low/ Quiet	dBA	54/50/48/47	56/54/53/52	60/56/54/53	
	Heating	High/Nom./Low/ Quiet	dBA	54/50/48/47	56/54/53/52	60/56/54/53	
Sound pressure level	Cooling	High/Nom./Low/ Silent operation	dBA	41/38/35/32	44/41/38/36	47/44/43/41	
	Heating	Super high/High/ Nom./Low/Silent operation	dBA	-/41/38/35/32	-/44/41/38/36	-/47/44/43/41	
Piping connections	Liquid	Type/OD	mm	Flare connection/9.52			
	Gas	Type/OD	mm	Flare connection/15.88			
	Drain				19.05		
	Heat insulation				Both liquid and gas pipes		
Temperature control				Microcomputer control			
Air direction control				4 directions, vertical			
Air filter	Type			Removable / washable			

Standard Accessories : Washer;

Standard Accessories : Cover lock grill;

Standard Accessories : Battery;

Standard Accessories : Installation manual;

Standard Accessories : Screws;

Standard Accessories : Wireless remote control;

Standard Accessories : Operation manual;

2-2 Electrical Specifications				ACQ71C	ACQ100C	ACQ125C
Power supply	Name			V1		
	Phase			1~		
	Frequency	Hz		50		
	Voltage	V		220-240		
Voltage range	Min.	%		-10		
	Max.	%		10		
Wiring connections - 50Hz	For power supply		Quantity	3		
			Remark	4 for interunit wiring (earth wire included)		

3 Safety device settings

3 - 1 Safety Device Settings

ACQ-C					
	SAFETY DEVICES		ACQ71C	ACQ100C	ACQ125C
ACQ-C	PC board fuse		250V 6.3A	250V 6.3A	250V 6.3A
	Fan motor thermal fuse	°C	125	125	125
	Drain pump fuse	°C	-	-	-

4 Options

4 - 1 Options

ACQ-C

Options:

Optional wired remote controller:

ARCWB

Group controller:

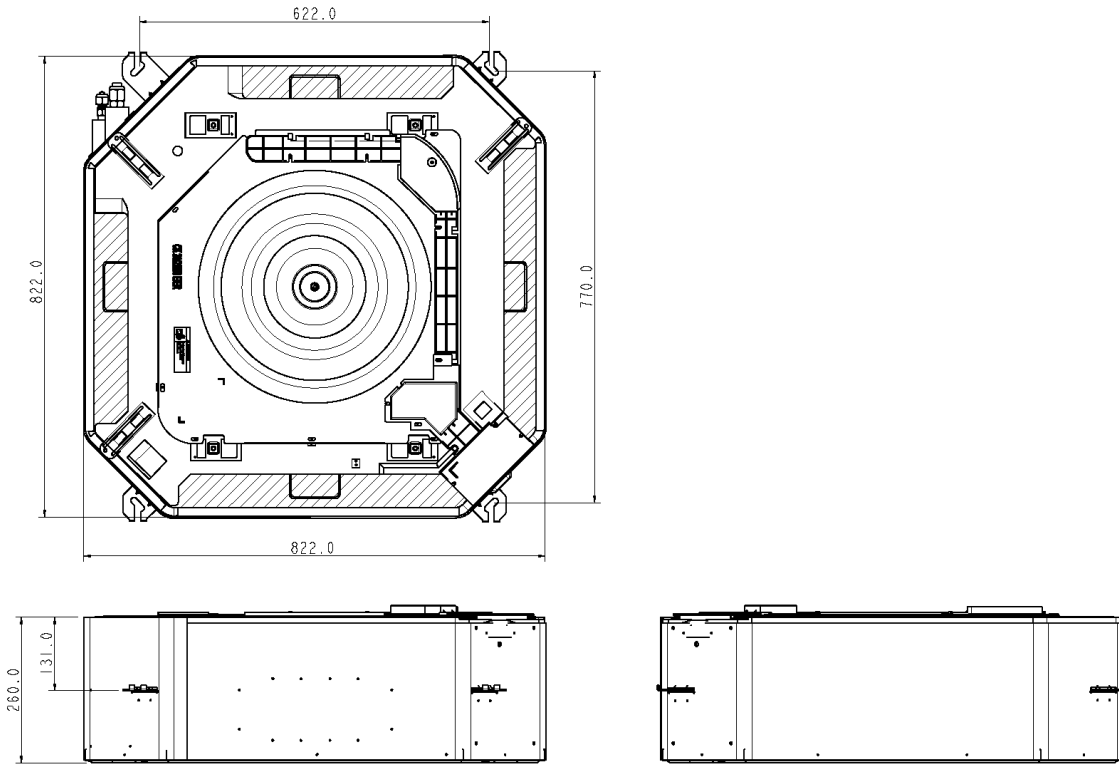
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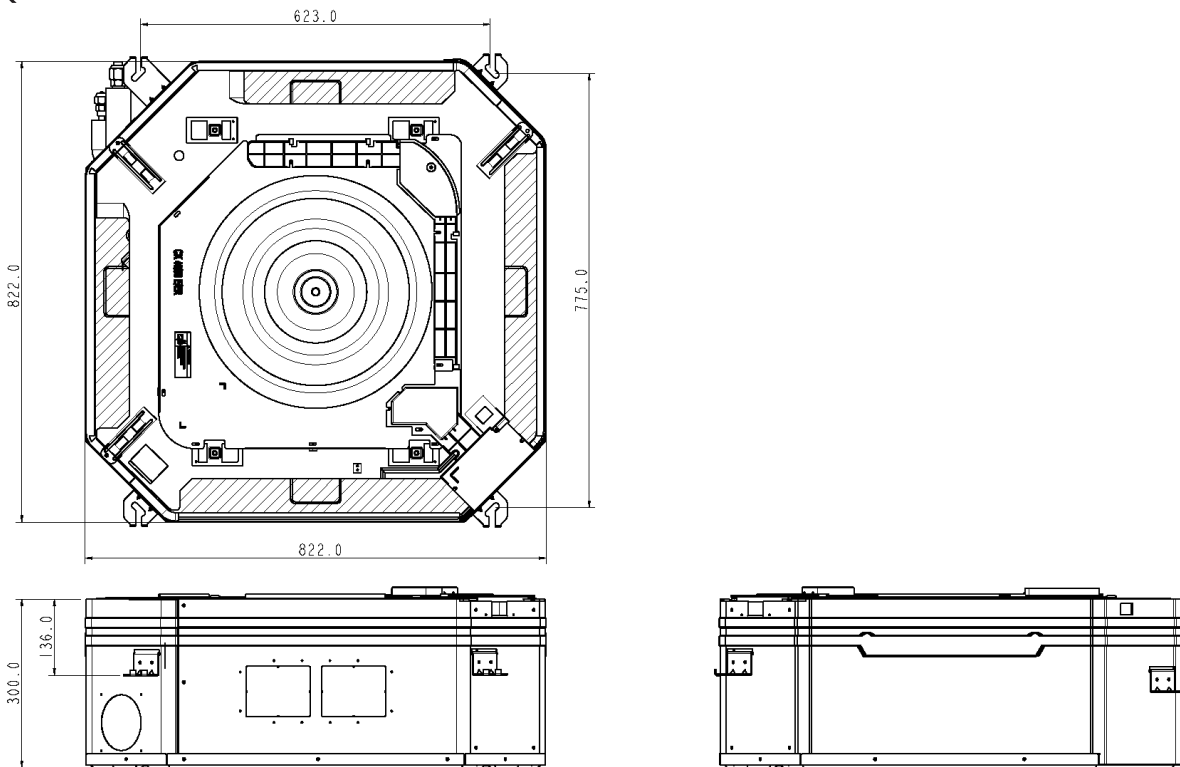
5 Dimensional drawings

5 - 1 Dimensional Drawings

ACQ71C



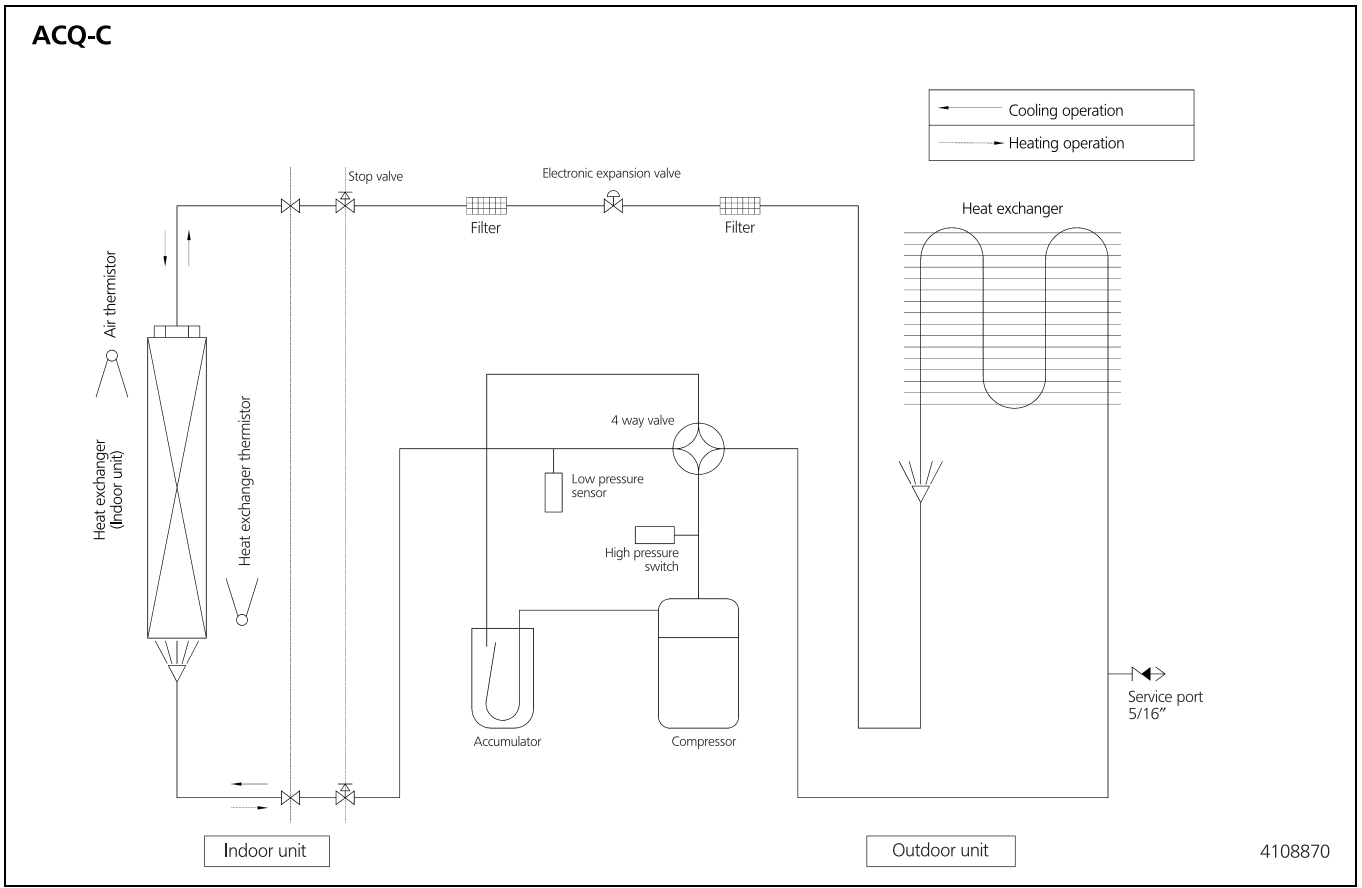
ACQ100C
ACQ125C



6 Piping diagrams

6 - 1 Piping Diagrams

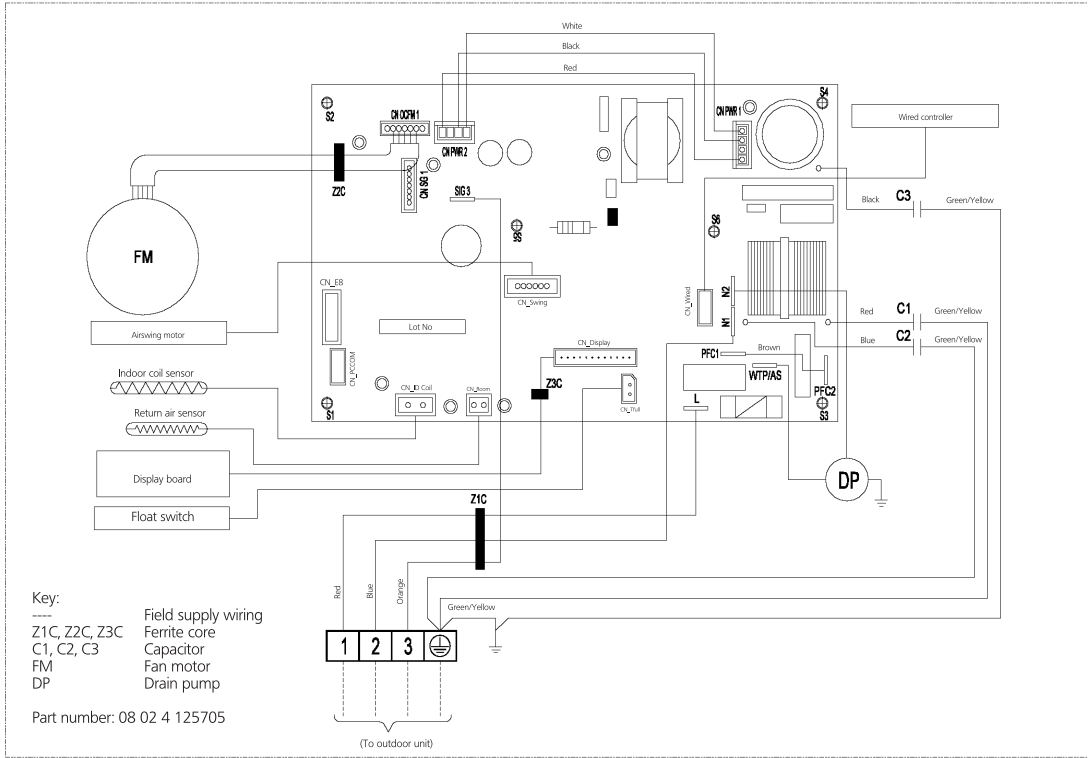
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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

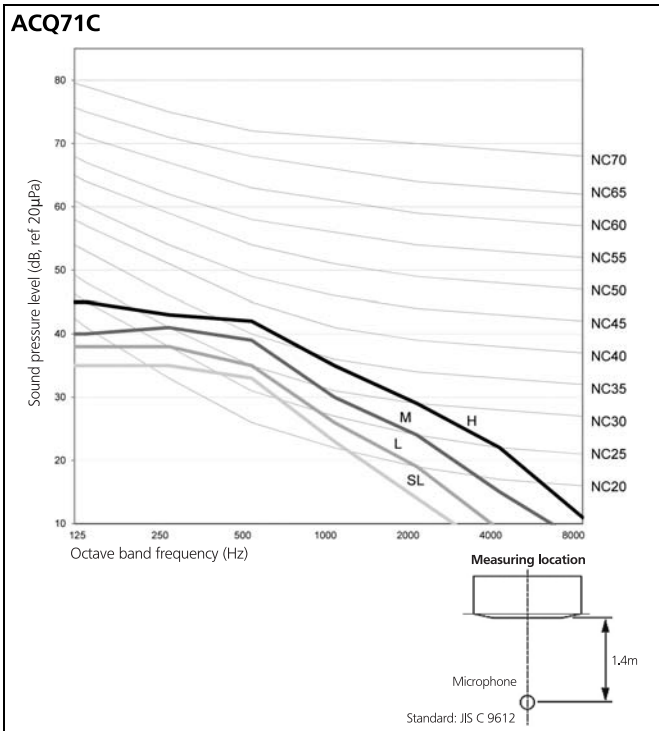
ACQ71-125C



8 Sound data

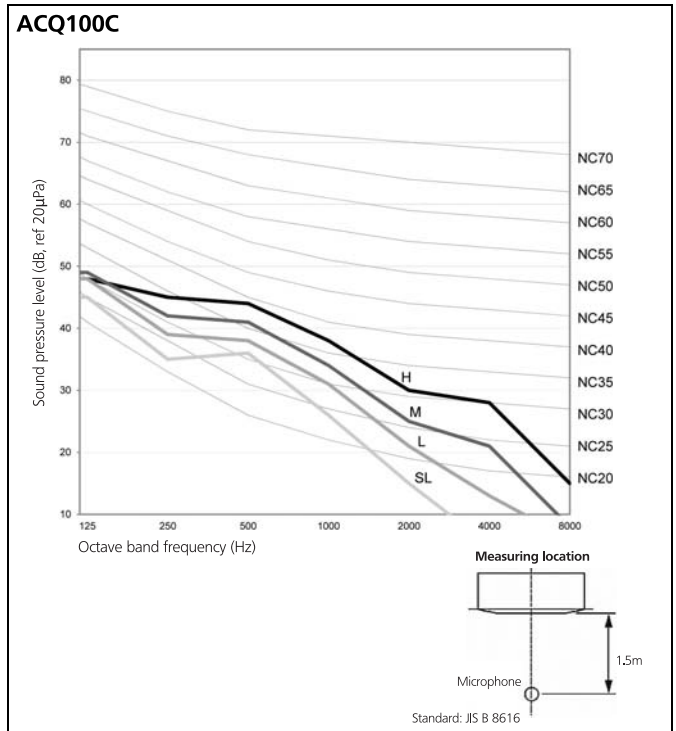
8 - 1 Sound Pressure Spectrum

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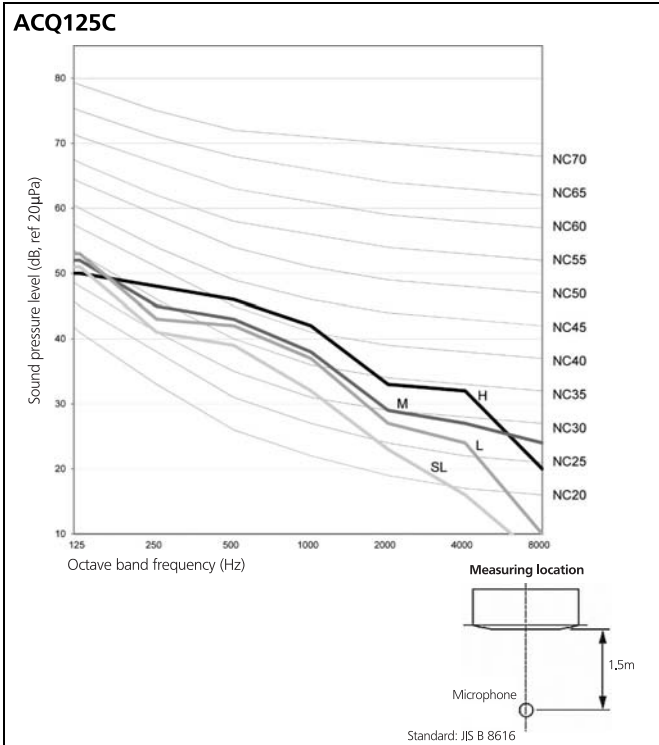
SOUND PRESSURE LEVEL

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA) ref 20µPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACQ71C	High	45	43	42	35	29	22	11	41	37
	Medium	40	41	39	30	24	15	7	38	34
	Low	38	38	35	26	19	9	5	35	30
	super low	35	35	33	23	14	5	4	32	28



SOUND PRESSURE LEVEL

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA) ref 20µPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACQ100C	High	48	45	44	38	30	28	15	44	39
	Medium	49	42	41	34	25	21	8	41	36
	Low	48	39	38	31	21	13	6	38	33
	super low	45	35	36	26	15	5	5	35	31



SOUND PRESSURE LEVEL

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA) ref 20µPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
ACQ125C	High	50	48	46	42	33	22	20	47	41
	Medium	52	45	43	38	29	27	13	44	38
	Low	52	43	42	37	27	24	10	43	37
	super low	51	41	39	32	23	16	6	39	34



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