



technical data

FDKS/FDXS-C



**Concealed Ceiling,
Inverter Controlled Unit**

air conditioning systems

Split Sky Air

Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

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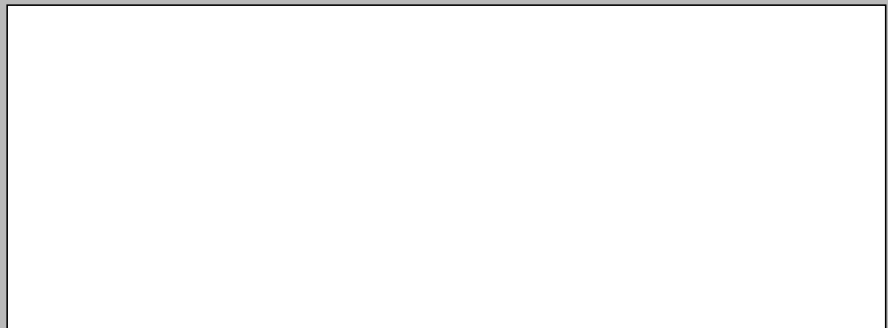


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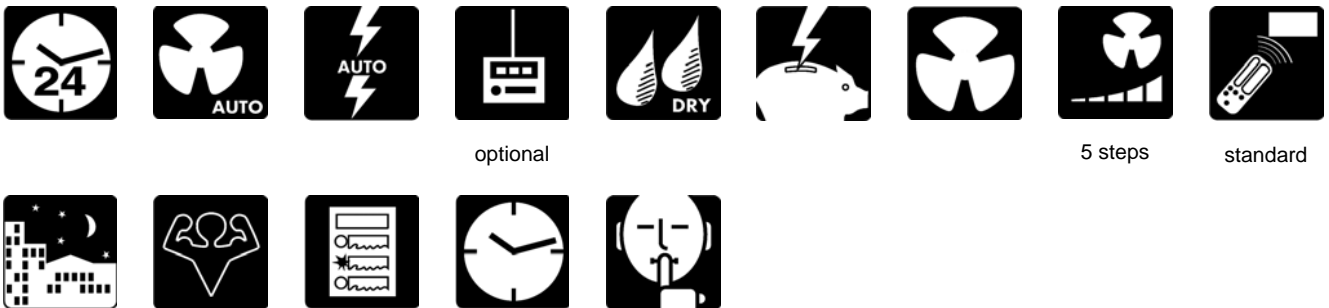
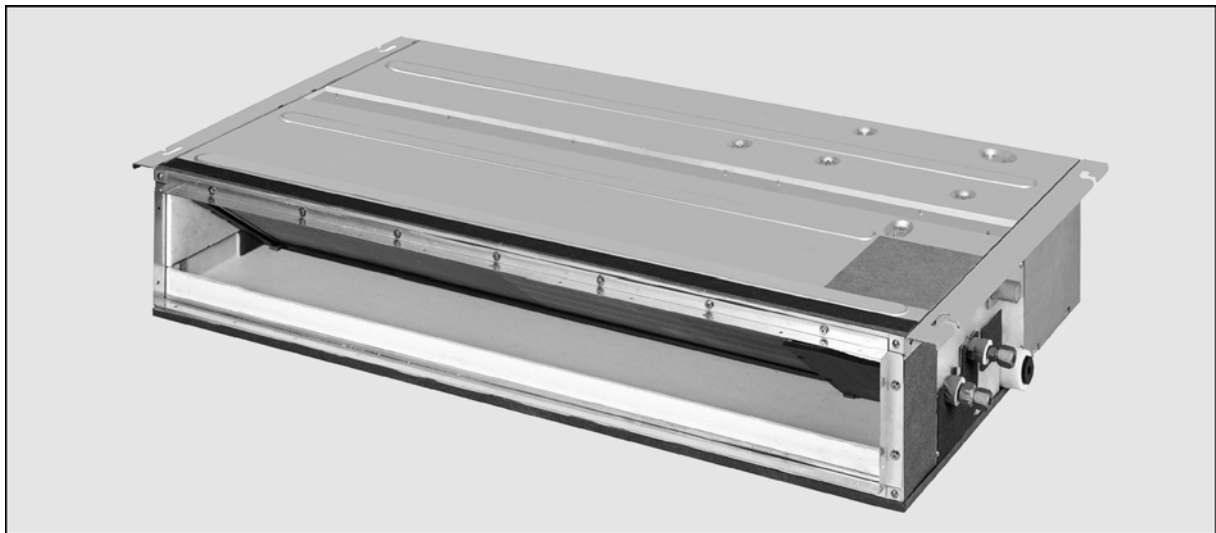
FDK/XS-CVMB

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1 Features

1

- Extremely quiet in operation
- You have the choice out of 3 fan speeds to select
- Daikin's special dry programme reduces humidity in the room without variation in room temperature
- Powerful mode can be selected for rapid cooling
- Night set mode saves energy by preventing overcooling or overheating during night time
- Standard suction filter: removes airborne dust particles to ensure a steady supply of clean air
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Daikin remote controls give you easy control at your fingertips.



2 Specifications

2-1 NOMINAL CAPACITY AND POWER INPUT					
For indoor units only:					
INDOOR UNITS			FDKS25CVMB*	FDKS35CVMB*	
NOMINAL INPUT	Cooling	kW	1.00	1.00	

For combination indoor + outdoor units (air cooled):					
COOLING ONLY - INVERTER CONTROLLED (air cooled)			FDKS25CVMB*	FDKS35CVMB*	
			RKS25DVMB	RKS35DVMB	
Cooling capacity	min-nom-max	kW	1.3~2.4~3.0	1.4~3.4~3.8	
Nominal input	min-nom-max	kW	0.30~0.845~1.06	0.30~1.30~1.455	
EER			2.48	2.62	
Energy label			C	D	
Annual energy consumption	Cooling	kWh	423	650	

2-2 TECHNICAL SPECIFICATIONS				FDKS25CVMB*	FDKS35CVMB*	
Dimensions	Packing	Height	mm	266	266	
		Width	mm	1106	1106	
		Depth	mm	751	751	
	Unit	Height	mm	200	200	
		Width	mm	900	900	
		Depth	mm	620	620	
Weight	Machine Weight	kg	25.0	25.0		
	Gross Weight	kg	31.0	31.0		
Heat Exchanger	Dimensions	Length	mm	700	700	
		Nr of Rows		2	2	
		Fin Pitch	mm	1.50	1.50	
		Nr of Passes		2	2	
		Nr of Stages		12	12	
	Tube type			Hi-XSS (7)		
	Fin	Type		ML fin (Multi louver)		
Fan	Type			Sirocco fan		
Air Flow Rate	Cooling	High	m ³ /min	9.5	10.0	
		Medium	m ³ /min	8.8	9.3	
		Low	m ³ /min	8.0	8.5	
		Silent Operation	m ³ /min	6.7	7.0	
Fan	Motor	Max	High Pa	40	40	
		Quantity		1	1	
		Model		62B-23A		
	Number of steps		5 steps, silent and auto			
Motor	Speed (cooling)	High	rpm	1090	1110	
		Medium	rpm	1010	1040	
		Low	rpm	930	970	
		Silent Operation	rpm	800	810	
Fan	Motor	Output (high)	W	62	62	
Cooling	Sound Power	High	dBA	53.0	53.0	
		Sound Pressure	High	dBA	35.0	35.0
			Medium	dBA	33.0	33.0
			Low	dBA	31.0	31.0
			Silent Operation	dBA	29.0	29.0
Refrigerant	Type			R-410A		

2-2 TECHNICAL SPECIFICATIONS				FDKS25CVMB*	FDKS35CVMB*
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.4	6.4
	Gas	Diameter (OD)	mm	9.5	9.5
	Drain	Diameter (OD)	mm	I.D. 20/O.D. 26	
	Heat Insulation			Both liquid and gas pipes	
Air Filter				Removable/washable/Mildew proof	
Temperature control				Microcomputer control	
Standard Accessories	Item			Installation manual	
	Quantity			1	1
	Item			Operation manual	
	Quantity			1	1
	Item			Infrared remote control	
	Quantity			1	1
	Item			Batteries	
	Quantity			2	2
	Item			Remote control holder	
	Quantity			1	1
	Item			Fixing screw for remote control	
	Quantity			2	2
	Item			Signal receiver cover kit	
	Quantity			1	1
	Item			Insulation for fitting	
	Quantity			1	1
	Item			Sealing pad	
	Quantity			1	1
	Item			Clamp metal	
	Quantity			1	1
	Item			Drain hose	
	Quantity			1	1
	Item			Washer for hanger bracket	
	Quantity			8	8
	Item			Sealing material	
	Quantity			2	2
	Item			Clamps	
	Quantity			6	6
Item			Washer fixing plate		
Quantity			4	4	
Item			Screws for duct flanges		
Quantity			1	1	
Item			Air filter		
Quantity			1	1	

* Also connectable to 2MKS40/3MKS50/4MKS58,75,90D

For more information about capacity, input, EER, ELD and annual energy consumption, please refer to our Multi Model cat. / Combination tables or check with your local dealer.

2-3 ELECTRICAL SPECIFICATIONS				FDKS25CVMB*	FDKS35CVMB*
Power Supply	Phase			VM	VM
	Frequency		Hz	50/60	
	Voltage		V	220-240/220-230	
Current	Nominal running current (RLA)	Cooling	A	0.47	0.47
Wiring connections	For Power Supply	Quantity		3	3
		Remark		4 for interunit wiring (included earth wiring)	
Voltage range	Minimum			-10%	
	Maximum			+10%	
Power Supply Intake				Outdoor unit only	

2 Specifications

2-4 NOMINAL CAPACITY AND POWER INPUT				
For indoor units only:				
INDOOR UNITS			FDXS25CVMB*	FDXS35CVMB*
NOMINAL INPUT	Cooling	kW	0.035	0.035
	Heating	kW	0.035	0.035

For combination indoor + outdoor units (air cooled):				
COOLING ONLY - INVERTER CONTROLLED (air cooled)			FDXS25CVMB*	FDXS35CVMB*
			RXS25DVMB	RXS35DVMB
Cooling capacity	min-nom-max	kW	1.3~2.4~3.0	1.4~3.4~3.8
Heating capacity	min-nom-max	kW	1.3~3.2~4.5	1.4~4.1~5.0
Nominal input	Cooling	min-nom-max	0.30~0.845~1.06	0.30~1.30~1.455
	Heating	min-nom-max	0.29~0.935~1.50	0.31~1.44~1.95
EER			2.84	2.62
COP			3.42	2.85
Energy label	Cooling		C	D
	Heating		B	D
Annual energy consumption	Cooling	kWh	423	650

2-5 TECHNICAL SPECIFICATIONS				FDXS25CVMB*	FDXS35CVMB*
Dimensions	Packing	Height	mm	266	266
		Width	mm	1106	1106
		Depth	mm	751	751
	Unit	Height	mm	200	200
		Width	mm	900	900
		Depth	mm	620	620
Weight	Machine Weight	kg	25.0	25.0	
	Gross Weight	kg	31.0	31.0	
Heat Exchanger	Dimensions	Length	mm	700	700
		Nr of Rows		2	2
		Fin Pitch	mm	1.50	1.50
		Nr of Passes		2	2
		Nr of Stages		12	12
	Tube type		Hi-XSS (7)		
	Fin	Type	ML fin (Multi louver)		
Fan	Type	Sirocco fan			
Air Flow Rate	Cooling	High	m ³ /min	9.5	10.0
		Medium	m ³ /min	8.8	9.3
		Low	m ³ /min	8.0	8.5
		Silent Operation	m ³ /min	6.7	7.0
	Heating	High	m ³ /min	9.5	10.0
		Medium	m ³ /min	8.8	9.3
		Low	m ³ /min	8.0	8.5
		Silent Operation	m ³ /min	6.7	7.0
Fan	Max	High	Pa	40	40
	Motor	Quantity		1	1
		Model	62B-23A		
		Number of steps	5 steps, silent and auto		

2-5 TECHNICAL SPECIFICATIONS				FDXS25CVMB*		FDXS35CVMB*	
Motor	Speed (cooling)	High	rpm	1090	1110		
		Medium	rpm	1010	1040		
		Low	rpm	930	970		
		Silent Operation	rpm	800	810		
	Speed (heating)	High	rpm	1090	1110		
		Medium	rpm	1010	1040		
		Low	rpm	930	970		
		Silent Operation	rpm	800	810		
Fan	Motor	Output (high)	W	62	62		
Cooling	Sound Power	High	dBA	53.0	53.0		
	Sound Pressure	High	dBA	35.0	35.0		
		Medium	dBA	33.0	33.0		
		Low	dBA	31.0	31.0		
		Silent Operation	dBA	29.0	29.0		
Heating	Sound Power	High	dBA	53.0	53.0		
	Sound Pressure	High	dBA	35.0	35.0		
		Medium	dBA	33.0	33.0		
		Low	dBA	31.0	31.0		
		Silent Operation	dBA	29.0	29.0		
Refrigerant	Type			R-410A			
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.4		6.4	
				9.5		9.5	
	Drain	Diameter (OD)	mm	I.D. 20/O.D. 26			
	Heat Insulation			Both liquid and gas pipes			
Air Filter			Removable/washable/Mildew proof				
Temperature control			Microcomputer control				

2-5 TECHNICAL SPECIFICATIONS		FDXS25CVMB*	FDXS35CVMB*
Standard Accessories	Item	Installation manual	
	Quantity	1	1
	Item	Operation manual	
	Quantity	1	1
	Item	Infrared remote control	
	Quantity	1	1
	Item	Batteries	
	Quantity	2	2
	Item	Remote control holder	
	Quantity	1	1
	Item	Fixing screw for remote control	
	Quantity	2	2
	Item	Signal receiver cover kit	
	Quantity	1	1
	Item	Insulation for fitting	
	Quantity	1	1
	Item	Sealing pad	
	Quantity	1	1
	Item	Clamp metal	
	Quantity	1	1
	Item	Drain hose	
	Quantity	1	1
	Item	Washer for hanger bracket	
	Quantity	8	8
	Item	Sealing material	
	Quantity	2	2
	Item	Clamps	
	Quantity	6	6
	Item	Washer fixing plate	
	Quantity	4	4
Item	Screws for duct flanges		
Quantity	1	1	
Item	Air filter		
Quantity	1	1	

* Also connectable to 2MXS40/2MXS52/3MXS52/4MXS68,80D

For more information about capacity, input, EER, ELD and annual energy consumption, please refer to our Multi Model cat. / Combination tables or check with your local dealer.

2-6 ELECTRICAL SPECIFICATIONS			FDXS25CVMB*	FDXS35CVMB*
Power Supply	Phase		VM	VM
	Frequency	Hz	50/60	
	Voltage	V	220-240/220-230	
Current	Nominal running current (RLA)	Cooling	A	0.47
		Heating	A	0.47
Wiring connections	For Power Supply	Quantity	3	3
		Remark	4 for interunit wiring (included earth wiring)	
Voltage range	Minimum	-10%		
	Maximum	+10%		
Power Supply Intake		Outdoor unit only		

NOTES

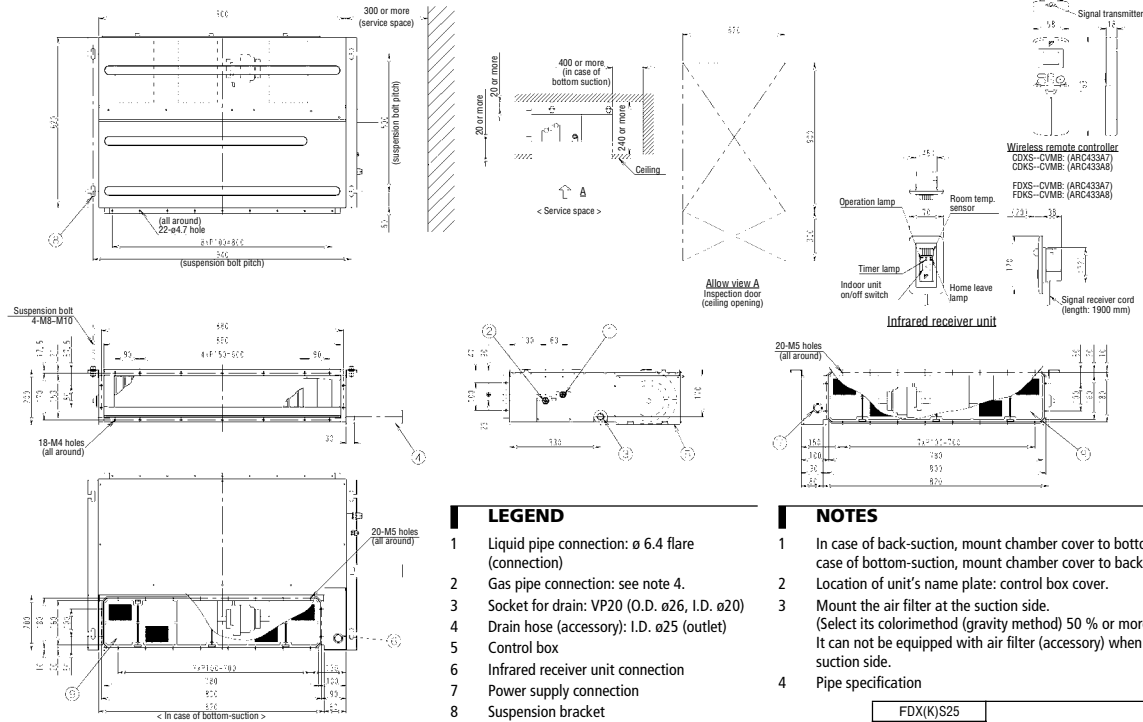
- 1 Sound values are measured in an anechoic room.
- 2 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.
- 3 The sound power level is an absolute value indicating the power which a sound source generates.

3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

3

FDK/XS25,35CVMB



LEGEND

- 1 Liquid pipe connection: ϕ 6.4 flare (connection)
- 2 Gas pipe connection: see note 4.
- 3 Socket for drain: VP20 (O.D. ϕ 26, I.D. ϕ 20)
- 4 Drain hose (accessory): I.D. ϕ 25 (outlet)
- 5 Control box
- 6 Infrared receiver unit connection
- 7 Power supply connection
- 8 Suspension bracket
- 9 Air filter (accessory)

NOTES

- 1 In case of back-suction, mount chamber cover to bottom side of the unit. In case of bottom-suction, mount chamber cover to back side of the unit.
- 2 Location of unit's name plate: control box cover.
- 3 Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50 % or more) It can not be equipped with air filter (accessory) when connecting duct to suction side.
- 4 Pipe specification

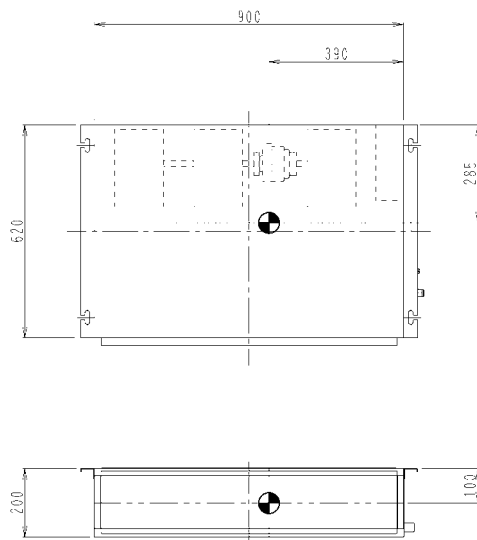
FDX(K)S25	ϕ 9.5 (flare connection)
CDX(K)S25	
FDX(K)S35	
CDX(K)S35	ϕ 12.7 (flare connection)
GD(X)S50	

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3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity

FDK/XS25,35CVMB

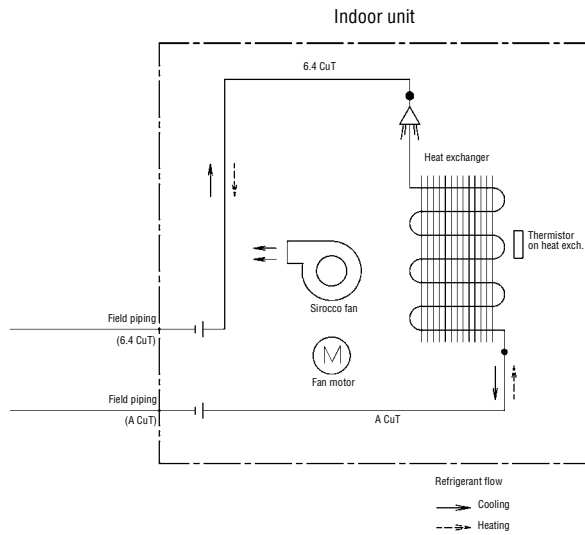


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4 Piping diagram

4

FDK/XS25,35CVMB

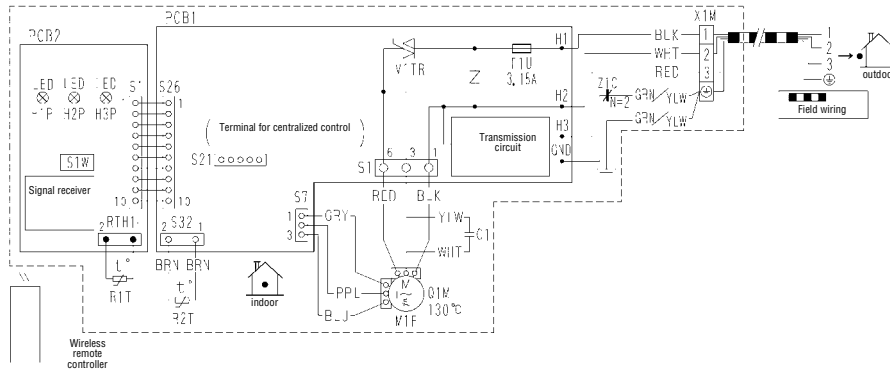


	A
FDKS25CVMB FDXS25CVMB FDKS35CVMB FDXS35CVMB	9.5 CuT

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5 Wiring diagram

FDK/XS25,35CVMB



LEGEND

	Protective earth
C1	Capacitor (M1F)
F1U	Fuse
H1P~H3P	Pilot lamp
M1F	Fan motor
PCB1~PCB2	Printed circuit board
Q1M	Thermal protector (M1F embedded)
R1T~R2T	Thermistor
S1~S3Z, RTH1	Connector
S1W	Operation switch
V1TR	Phase control circuit
X1M	Terminal block
Z1C	Noise filter (ferrite core)

NOTES

- 1 Size: length 70 x width 120.
- 2 Refer to purchasing specification AS303002, unless otherwise specified.
- 3 This drawing was drawn on CAD system.
- 4 Nameplate material: wood free tack paper.
- 5 Coat the reverse side with pressure sensitive adhesive.
- 6 Make a slit on separate liner in vertical direction.
- 7 Caution: Note that operation will restart automatically if the main power supply is turned off and then back on again.

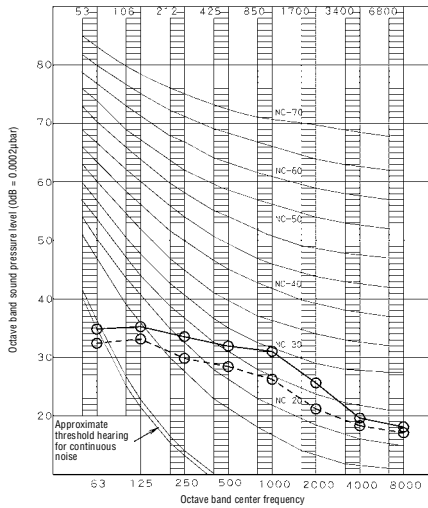
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6 Sound data

6 - 1 Sound pressure spectrum

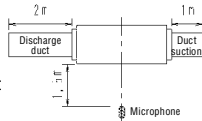
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FDKS25CVMB



NOTES

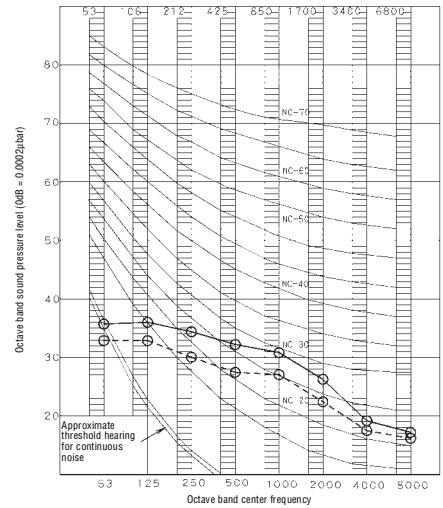
- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o- - - -o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.



Location of microphone

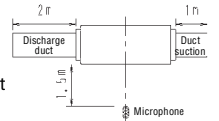
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FDKS35CVMB



NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o- - - -o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.



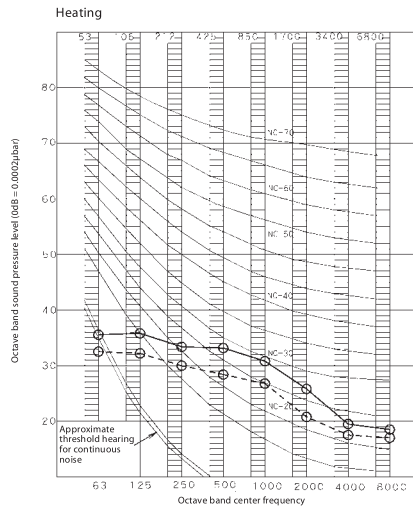
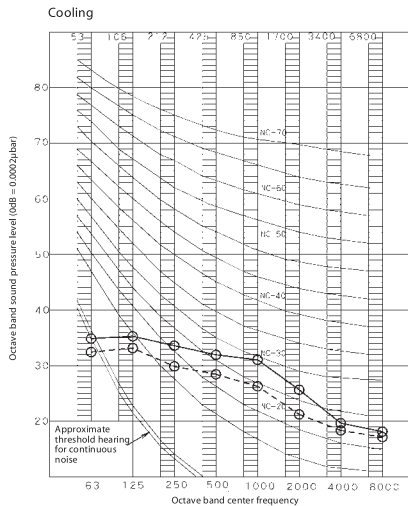
Location of microphone

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6 Sound data

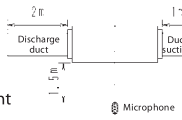
6 - 1 Sound pressure spectrum

FDXS25CVMB



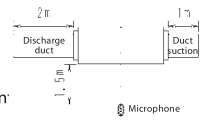
NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o---o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.



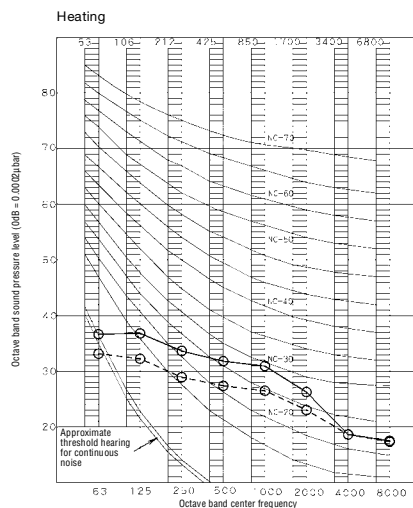
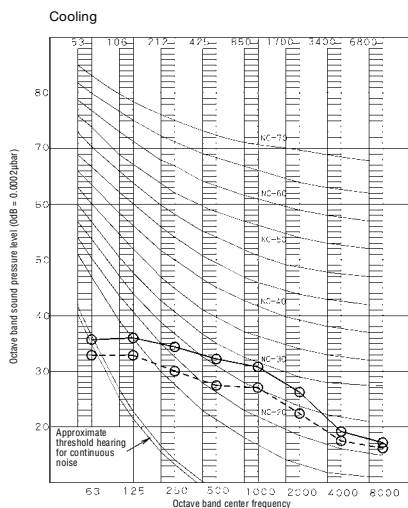
NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o---o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.



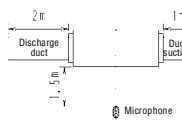
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FDXS35CVMB



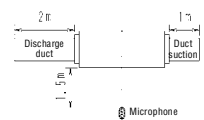
NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o---o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.



NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:
Power source = 230 V, 50 Hz
o-----o H (A = 35) and o---o L (A = 31)
- 4 Operation noise differs with operation and ambient conditions.
- 5 The operating sound is based on the rear side suction inlet, and the external static pressure 40 Pa.

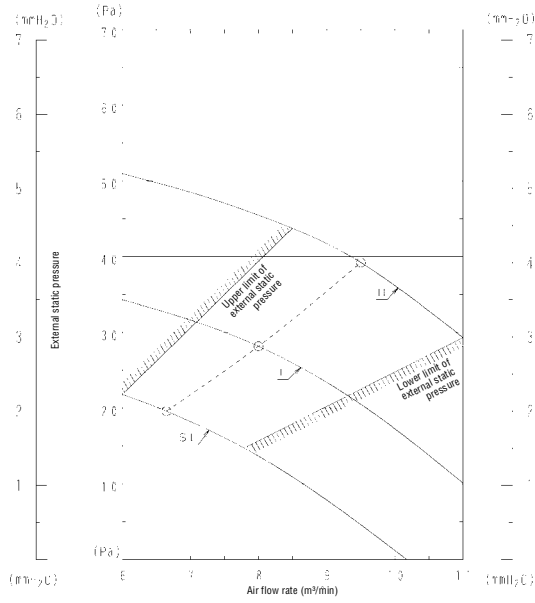


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7 Fan characteristics

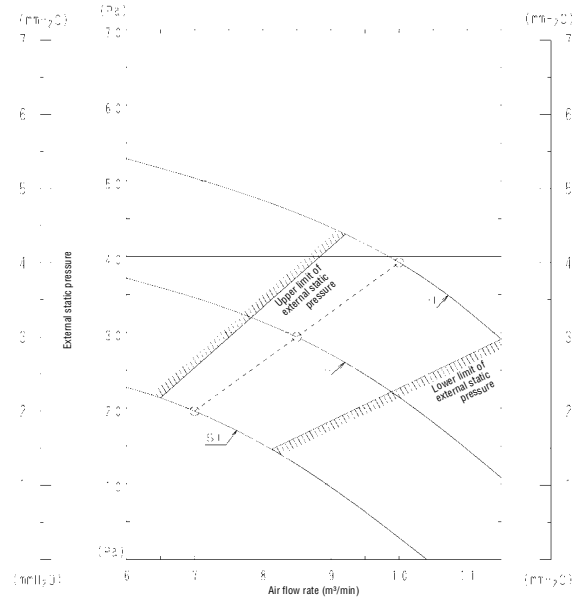
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FDK/XS25CVMB



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FDK/XS35CVMB



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