



Air Conditioning

Technical Data

Concealed ceiling unit



EEDEN13-100

FDXS-F

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FDXS-F

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1 Features

- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Low energy consumption thanks to DC fan motor
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths

1



Fan only



Fan speed steps



Dry programme



Air filter



Weekly timer



24 hour timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi model application



Super Multi Plus

2 Specifications

2-1 Technical Specifications					FDXS25F	FDXS35F	FDXS50F	FDXS60F
Power input	Cooling	Nom.		kW	0.036		0.038	0.060
	Heating	Nom.		kW	0.036		0.038	0.060
Dimensions	Unit	Height/Width/Depth		mm	200/750/620		200/950/620	200/1,150/620
	Packed unit	Height/Width/Depth		mm	274/906/751		266/1,106/751	266/1,306/751
Weight	Unit			kg	21		27	30
	Packed unit			kg	29		34	37
Heat exchanger	Length			mm	500		700	900
	Rows	Quantity			3			2
	Fin pitch			mm	1.5			
	Stages	Quantity			12			
	Tube type			ø7 Hi-XD				
	Fin	Type			Multi slit fin			
Fan	Type				Sirocco fan			
	Air flow rate	Cooling	High	m³/min	8.7		12.0	16.0
				cfm	307		424	565
			Nom.	m³/min	8.7		12.0	16.0
				cfm	307		424	565
			Low	m³/min	7.3		10.0	13.5
				cfm	258		353	477
		Heating	High	m³/min	8.7		12.0	16.0
				cfm	307		424	565
			Nom.	m³/min	8.0		11.0	14.8
				cfm	282		338	523
			Low	m³/min	7.3		10.0	13.5
				cfm	258		353	477
	External static pressure		Nom.		Pa	30		40
Fan motor	Model				KFD-280-44-8A		KFD-280-65-8A	
	Speed	Steps			3			
		Cooling	High/Medium/Low	rpm	1,270/1,180/1,090		1,270/1,180/1,080	1,280/1,160/1,040
		Heating	High/Medium/Low	rpm	1,270/1,180/1,090		1,270/1,180/1,080	1,280/1,160/1,040
Sound power level	Cooling	High		dBA	53		55	56
	Heating	High		dBA	53		55	56
Sound pressure level	Cooling	High/Nom./Low		dBA	35/33/27		37/35/29	38/36/30
	Heating	Super high/High/Nom./Low		dBA	-35/33/27		-37/35/29	-38/36/30
Refrigerant	Type				R-410A			
Piping connections	Liquid	OD			6.35			
	Gas	OD			9.5		12.7	
	Drain				VP20 (I.D. 20/O.D. 26)			
	Heat insulation				Both liquid and gas pipes			
Temperature control					Microcomputer control			
Air filter	Type				Removable / washable / mildew proof			

Standard Accessories : Air filter; Quantity : 1;

Standard Accessories : Screws for duct flanges; Quantity : 1;

Standard Accessories : Washer fixing plate; Quantity : 4;

Standard Accessories : Clamps; Quantity : 6;

Standard Accessories : Sealing material; Quantity : 2;

Standard Accessories : Washer for hanger bracket; Quantity : 8;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Clamp metal; Quantity : 1;

Standard Accessories : Sealing pad; Quantity : 1;

Standard Accessories : Insulation for fitting; Quantity : 1;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

2 Specifications

2-2 Electrical Specifications				FDXS25F	FDXS35F	FDXS50F	FDXS60F
Power supply	Name			VE			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	230		220-240	
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.3		0.4	0.5
		Heating	A	0.3		0.4	0.5

Notes

(1) Operating sound is based on the rear side suction inlet and ESP 40Pa. Operating sound for under side suction inlet: (operation sound for rear side suction inlet) +5dB. However, when installation to which the ESP becomes low is carried out, 5dB or more may go up

(2) When connected with multi-system outdoor unit, refer to the specifications of the multi outdoor unit to be connected.

3 Options

3 - 1 Options

FDXS-F

Indoor Units - Control systems

	FDXS25F	FDXS35F	FDXS50F	FDXS60F
Wired remote control (1)	BRC1D52/BRC1E52A/BRC1E52B			
Infrared remote control	BRC4C65			
Simplified remote controller	BRC2C51			
Remote control for hotel use	BRC3A61			
Central remote controller	DCS302C51			
Unified ON/OFF control	DCS301B51			
Schedule timer	DST301B51			
Wiring adapter for electrical appendices	KRP4A54			
Remote sensor	KRC501-4B			
Installation box for adapter PCB	KRP1BA101			
Electric box with earth terminal - 2/3 blocks	KJR212A/KJB311A			

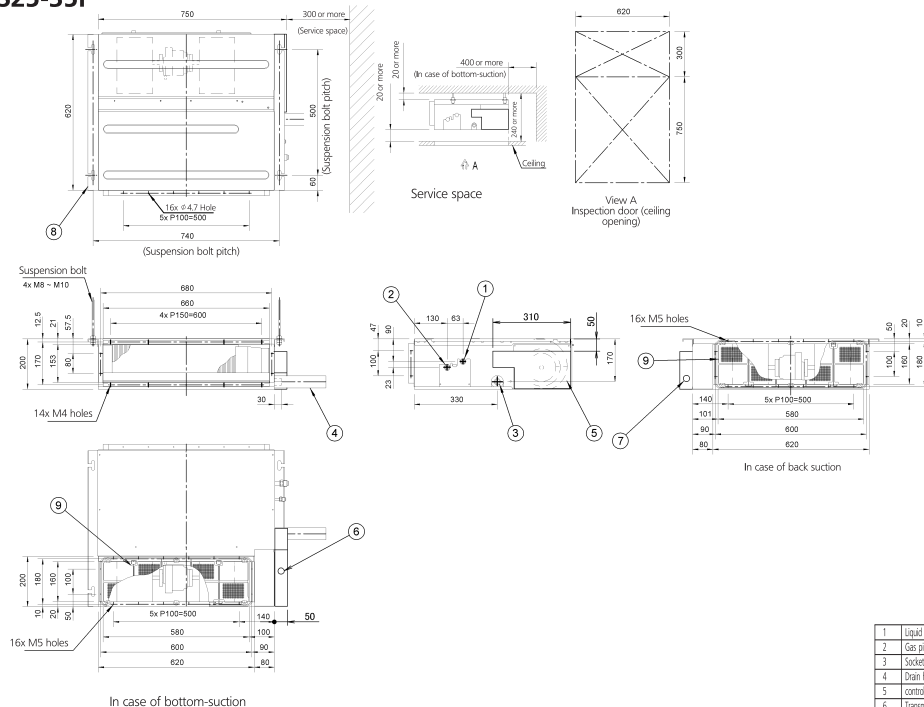
(1) Cord for wired remote control BRCW901A03 or BRCW901A08 required.

4 Dimensional drawings

4 - 1 Dimensional Drawings

4

FDXS25-35F



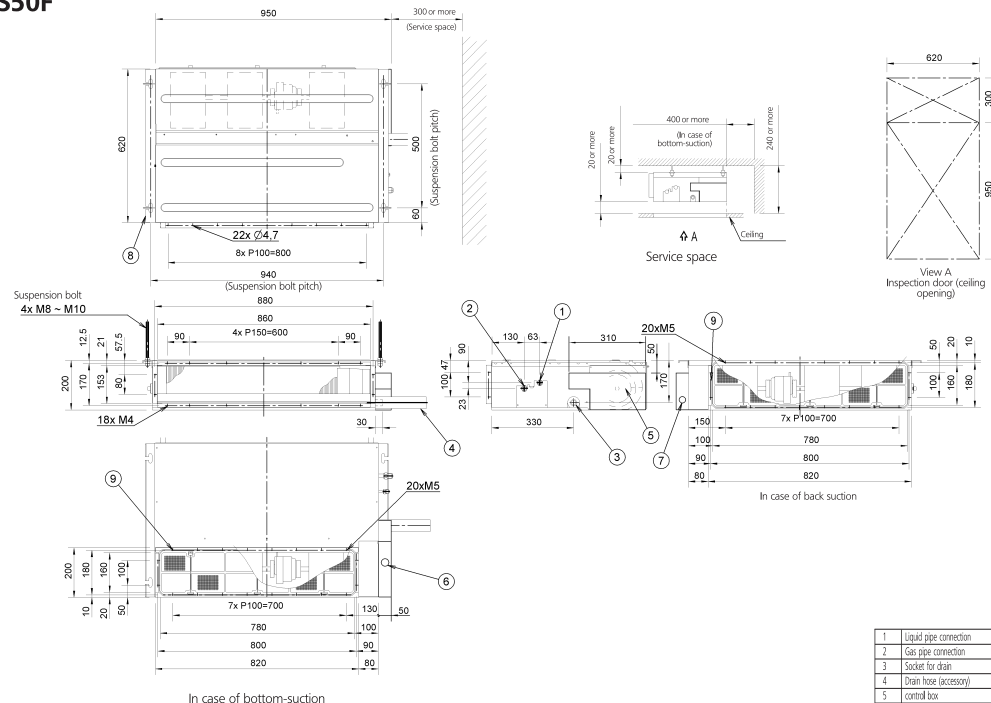
Note:

1. In case of back-suction, mount chamber cover to bottom side of the unit.
2. In case of bottom-suction, mount chamber cover to back side of the unit.
3. Location of unit's name plate: control box cover.
4. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

1	Liquid pipe connection	Φ 6.4 flare connection
2	Gas pipe connection	Φ 9.5 flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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FDXS50F



Note:

1. In case of back-suction, mount chamber cover to bottom side of the unit.
2. In case of bottom-suction, mount chamber cover to back side of the unit.
3. Location of unit's name plate: control box cover.
4. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

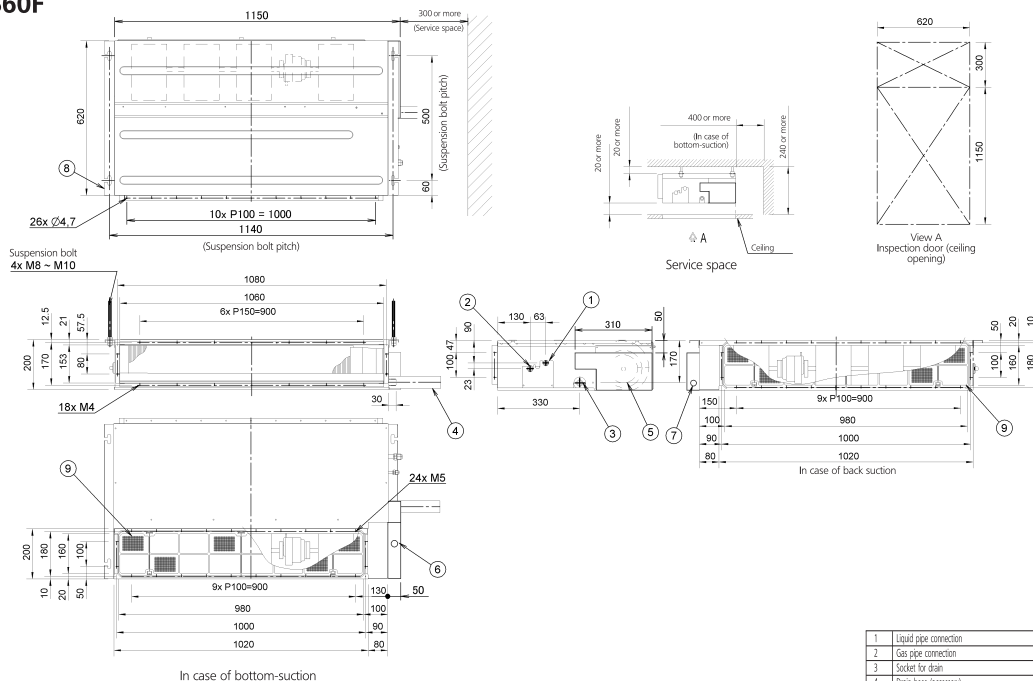
1	Liquid pipe connection	Φ 6.4 flare connection
2	Gas pipe connection	Φ 12.7 flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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4 Dimensional drawings

4 - 1 Dimensional Drawings

FDXS60F



Note:

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. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

1	Liquid pipe connection	Ø 6.4 Flare connection
2	Gas pipe connection	Ø 12.7 Flare connection
3	Socket for drain	VP 20 (Ø 26, ID Ø 20)
4	Drain hose (accessory)	ID Ø 25 (Outlet)
5	Control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

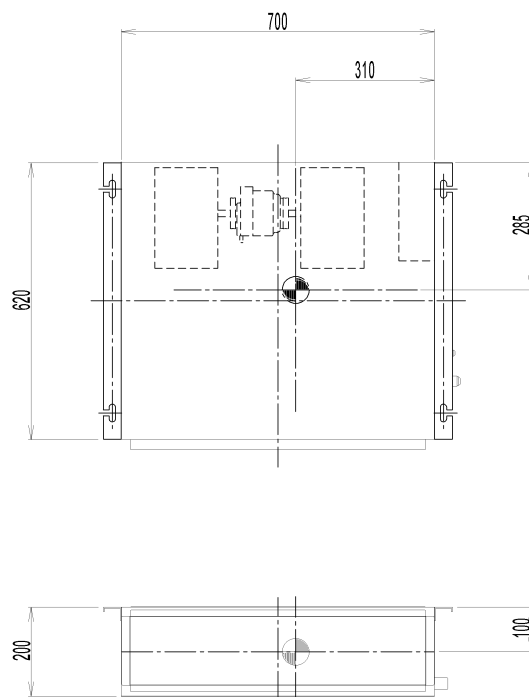
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5 Centre of gravity

5 - 1 Centre of Gravity

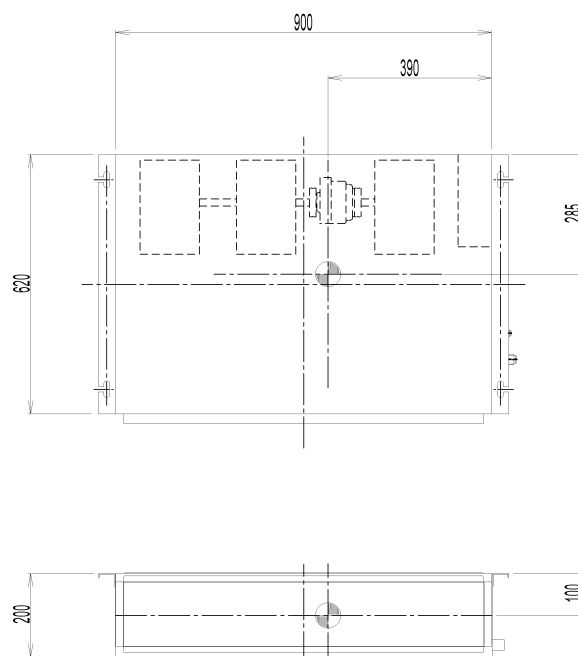
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FDXS25-35F



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FDXS50F

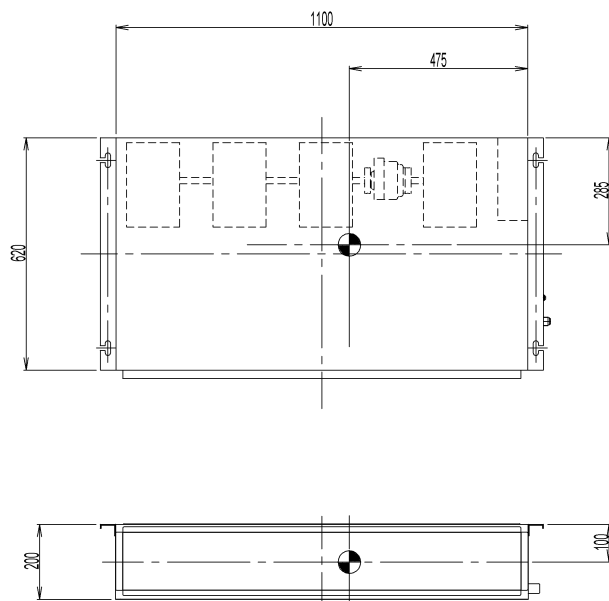


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5 Centre of gravity

5 - 1 Centre of Gravity

FDXS60F



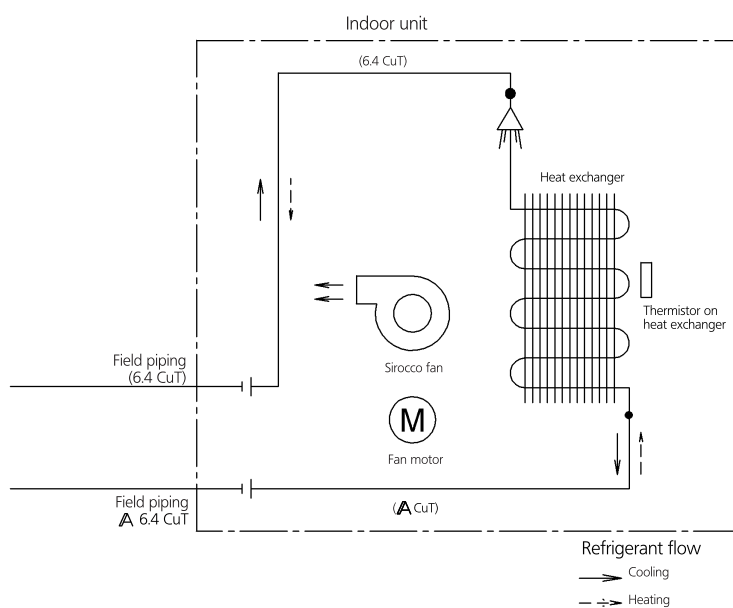
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6 Piping diagrams

6 - 1 Piping Diagrams

6

FDXS-F

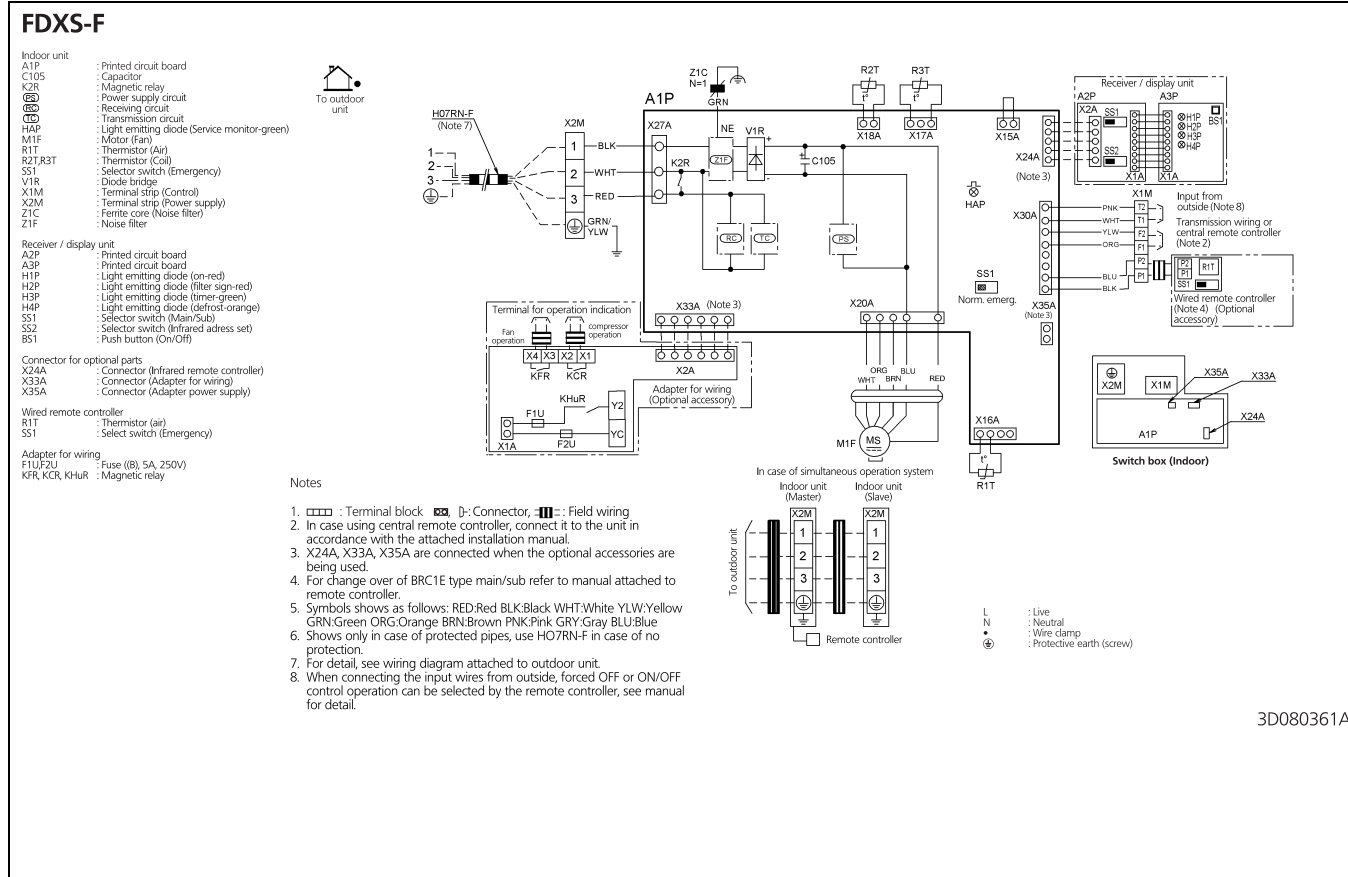


Model	A
FDXS25F FDXS35F	9.5
FDXS50F FDXS60F	12.7

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase



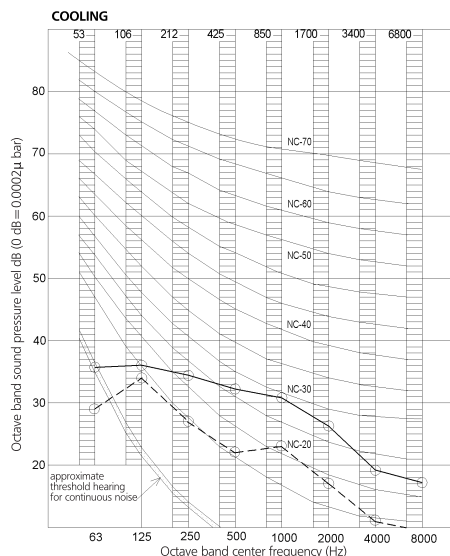
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8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

8

FDXS25-35F



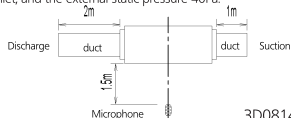
NOTES

1 Overall (dB)

Scale	220-240V/50Hz 220-230V/60Hz (H)	220-240V/50Hz 220-230V/60Hz (L)
A	35	27

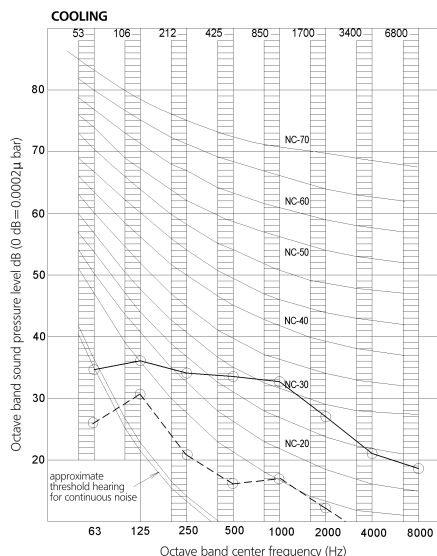
(B,G,N is already rectified)

- Measuring place: Measure in anechoic room
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.
- Operating conditions:
Power source 220-240V 50Hz/220-230V 60Hz
- Standard external static pressure
- JIS
○—○ (H) 220-240V 50Hz/220-230V 60Hz
○—○ (L) 220-240V 50Hz/220-230V 60Hz
- Location of microphone:



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FDXS50F



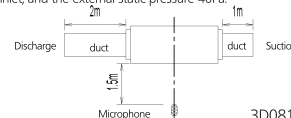
NOTES

1 Overall (dB)

Scale	230V/50Hz 220V/60Hz (H)	230V/50Hz 220V/60Hz (L)
A	37	29

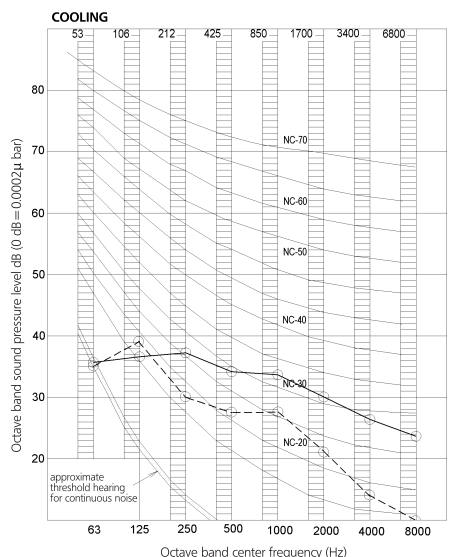
(B,G,N is already rectified)

- Measuring place: Measure in anechoic room
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.
- Operating conditions:
Power source 230V 50Hz/220V 60Hz
- Standard external static pressure
- JIS
○—○ (H) 230V 50Hz/220V 60Hz
○—○ (L) 230V 50Hz/220V 60Hz
- Location of microphone:



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FDXS60F



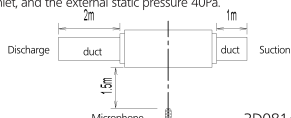
NOTES

1 Overall (dB)

Scale	230V/50Hz 220V/60Hz (H)	230V/50Hz 220V/60Hz (L)
A	38	30

(B,G,N is already rectified)

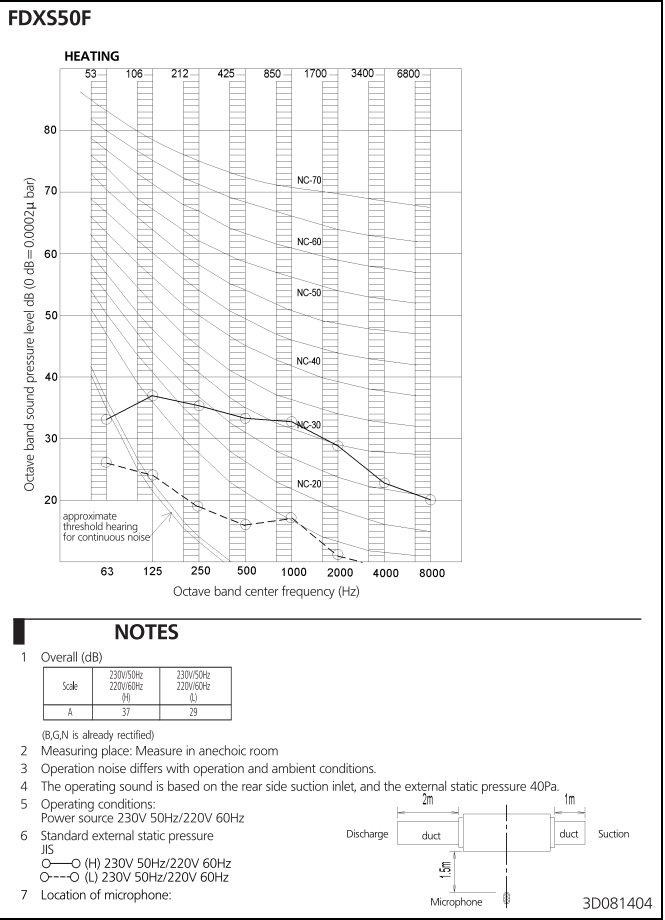
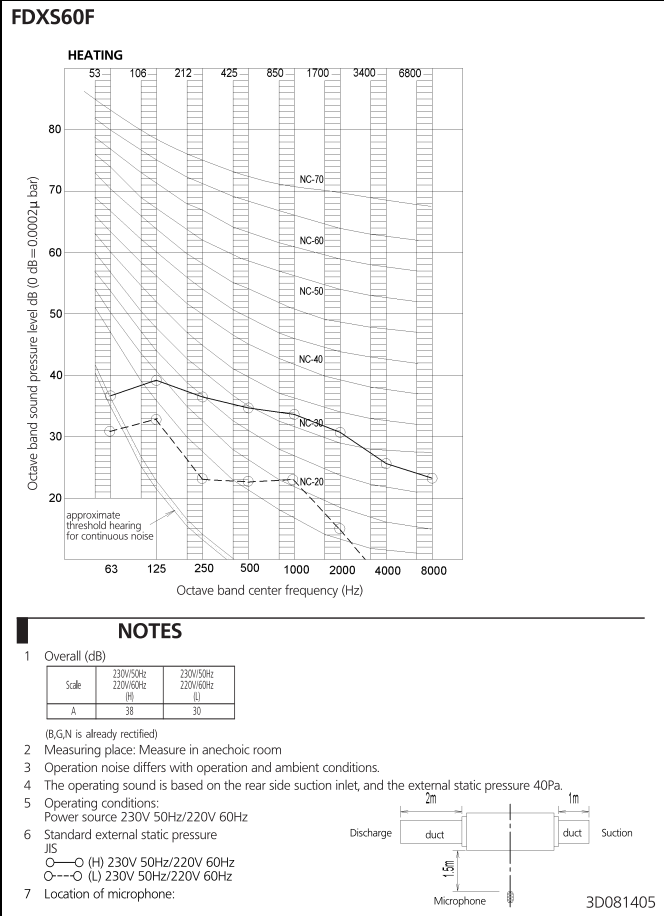
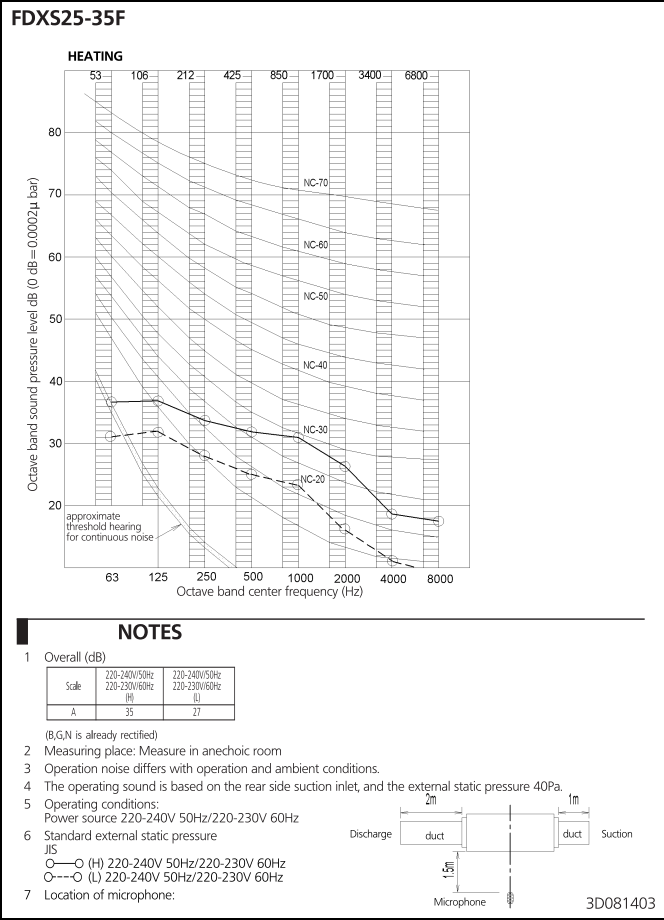
- Measuring place: Measure in anechoic room
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.
- Operating conditions:
Power source 230V 50Hz/220V 60Hz
- Standard external static pressure
- JIS
○—○ (H) 230V 50Hz/220V 60Hz
○—○ (L) 230V 50Hz/220V 60Hz
- Location of microphone:



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8 Sound data

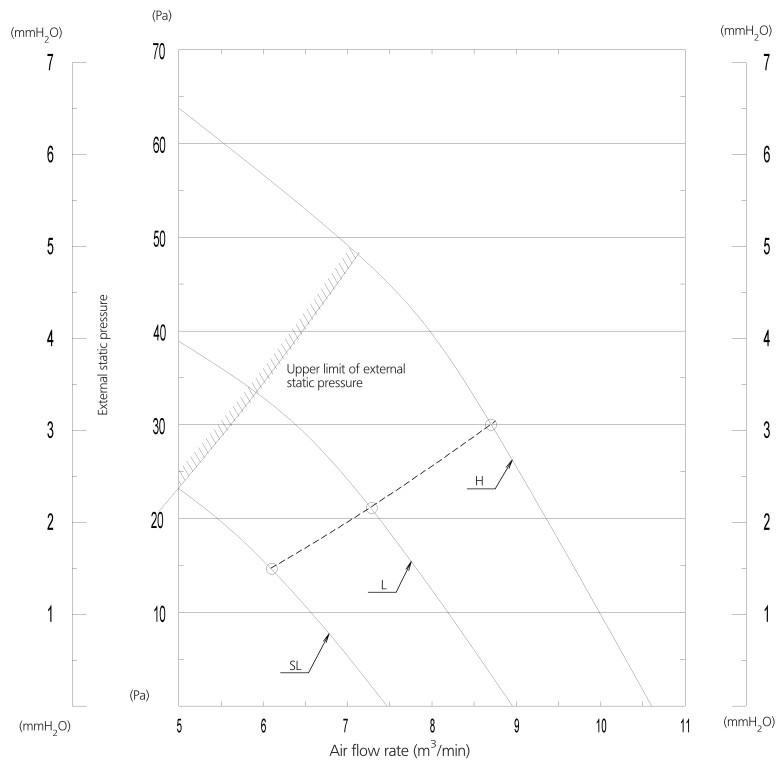
8 - 2 Sound Pressure Spectrum - Heating



9 Fan characteristics

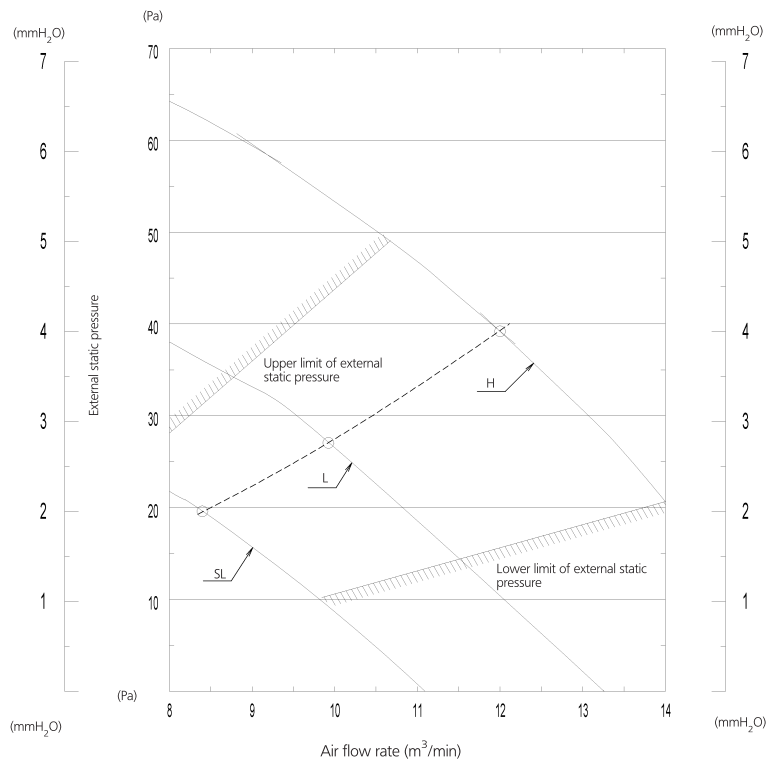
9 - 1 Fan Characteristics

FDXS25-35F



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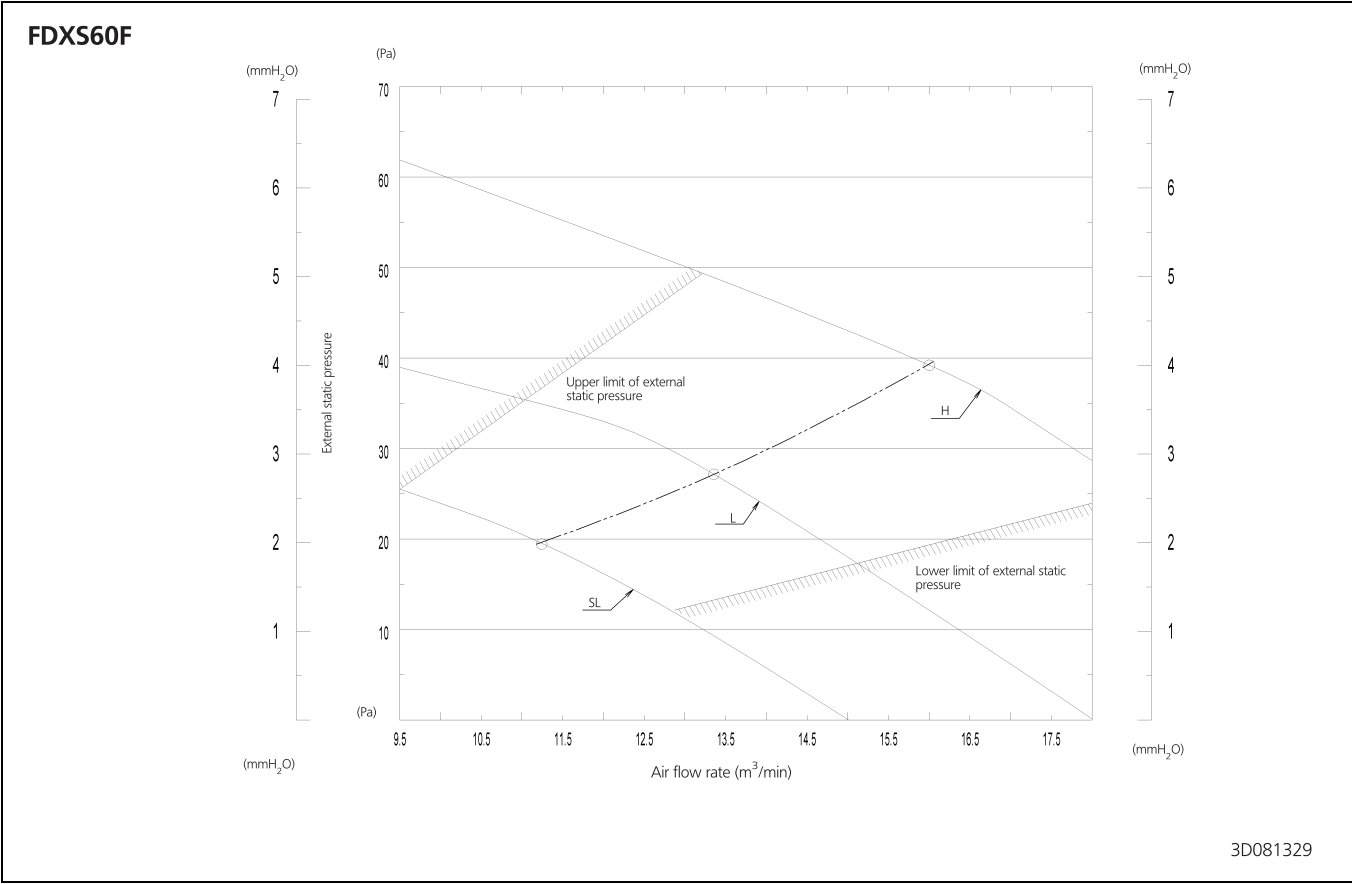
FDXS50F



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9 Fan characteristics

9 - 1 Fan Characteristics





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