



Air Conditioning Technical Data

Concealed ceiling unit



EEDEN16-100

FDXM-F

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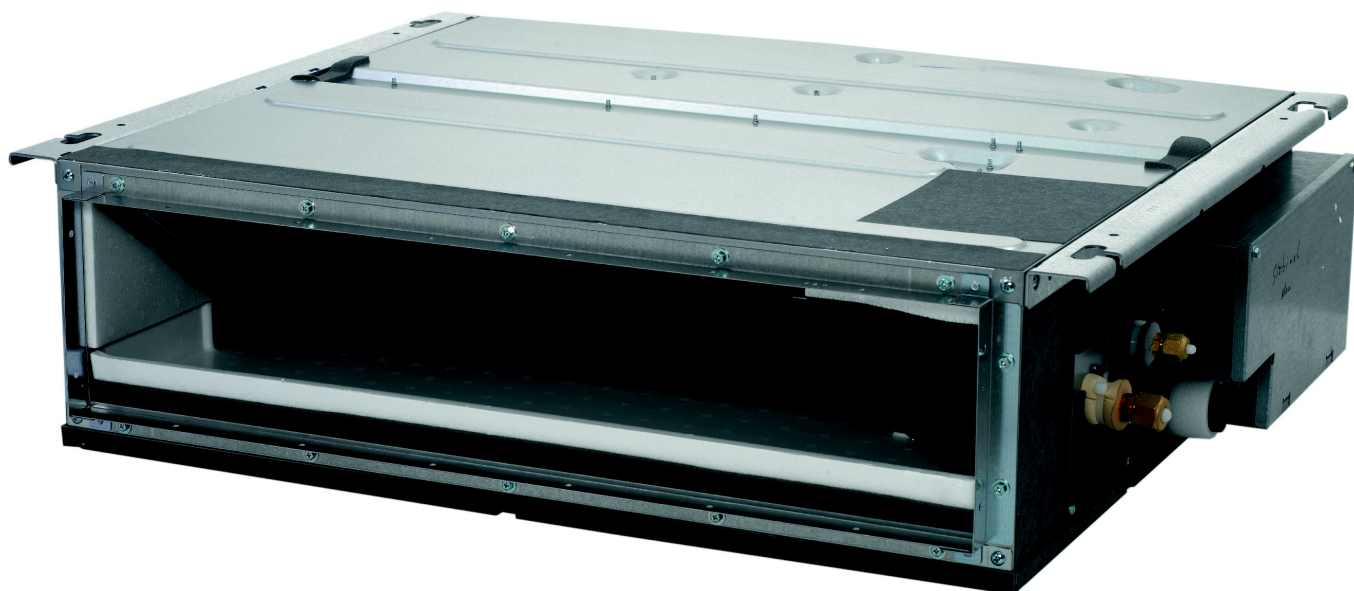
FDXM-F

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1 Features

Compact concealed ceiling unit, with a height of only 200mm

- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Low energy consumption thanks to DC fan motor
- Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths



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

2 Specifications

2-1 Technical Specifications					FDXM25F		FDXM35F		FDXM50F		FDXM60F				
Power input	Cooling		Nom.		kW		0.036				0.060				
	Heating		Nom.		kW		0.036				0.060				
Dimensions	Unit		Height/Width/Depth		mm		200/750/620				200/1,150/620				
	Packed unit		Height/Width/Depth		mm		274/906/751				266/1,306/751				
Weight	Unit				kg		21				30				
	Packed unit				kg		29				37				
Heat exchanger	Length				mm		500				900				
	Rows		Quantity			3				2					
	Fin pitch				mm		1.5								
	Stages		Quantity			12									
	Tube type				ø7 Hi-XD										
	Fin		Type			Multi slit fin									
Air filter	Type					Removable / washable / mildew proof									
Fan	Type					Sirocco fan									
	Air flow rate	Cooling	High	m³/min		8.7				12.0		16.0			
				cfm		307				424		565			
			Nom.	m³/min		8.0				11.0		14.8			
				cfm		282				338		523			
			Low	m³/min		7.3				10.0		13.5			
				cfm		258				353		477			
		Heating	High	m³/min		8.7				16.0					
				cfm		307				565					
			Nom.	m³/min		8.0				14.8					
				cfm		282				523					
			Low	m³/min		7.3				13.5					
				cfm		258				477					
	External static pressure		Nom.		Pa		30				40				
Fan motor	Model					KFD-280-44-8A				KFD-280-65-8A					
	Speed		Steps			3									
			Cooling	High/ Mediu m/Low	rpm	1,270/1,180/1,090				1,270/1,180/1,080		1,280/1,160/1,040			
						Heating	High/ Mediu m/Low	rpm	1,270/1,180/1,090				1,270/1,180/1,080		1,280/1,160/1,040
Sound power level			Cooling		dBA				53				55		56
			Heating		dBA			53				55		56	
Sound pressure level	Cooling		High/Nom./Low		dBA		35/33/27				38/36/30		38/35/30		
	Heating		High/Nom./Low		dBA		35/33/27				38/36/30				
Control systems	Infrared remote control					BRC4C65									
	Wired remote control					BRC1D52									
Refrigerant	Type					R-32									
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										

2-2 Electrical Specifications					FDXM25F	FDXM35F	FDXM50F	FDXM60F
Power supply	Name				V1			
	Phase				1~			
	Frequency			Hz	50			
	Voltage			V	230		220-240	
Current	Nominal running current (RLA) - 50Hz	Cooling	A		0.3		0.5	
		Heating	A		0.3		0.5	

3 Options

3 - 1 Options

3

FDXM-F

	Option name	FDXM2SF	FDXM3SF	FDXM50F	FDXM60F
Individual control systems	Wired remote control	BRC1D52/BRC1D61 (1)/BRC1E51A			
	Simplified remote controller	BRC2E52C (3)			
	Stylish remote controller	BRC3E52C (3)			
	Remote control for hotel use	BRC4C65			
	Infrared remote control (HFP)	DCS302CA51/DCS302CA61 (1)			
Centralised control systems	Central remote controller	DCS301BA51/DCS301BA61(A)			
	Unified ON/OFF control	DST301BA51/DST301BA61 (1)			
	Schedule timer	DCS303A51 (1) (2)			
	Residential central remote control	KRP1B56			
	Adapter for wiring	KRP2A53			
Other options	Wiring adapter for electrical appendices 1	KRP4A54			
	Wiring adapter for electrical appendices 2	KRC501-4B			
	Remote sensor	KRP1BA101			
	Installation box for adaptor PCB	KJB212AA			
	Electric box with earth terminal - 2 blocks	KJB311AA			
	Electric box with earth terminal - 3 blocks	KEK26-1A			
	Noise filter (for electromagnetic interface use only)	KDT25N32/KDT25N50/KDT25N63			
	Insulation kit for high humidity	BRP7A54			
	Digital input adaptor				

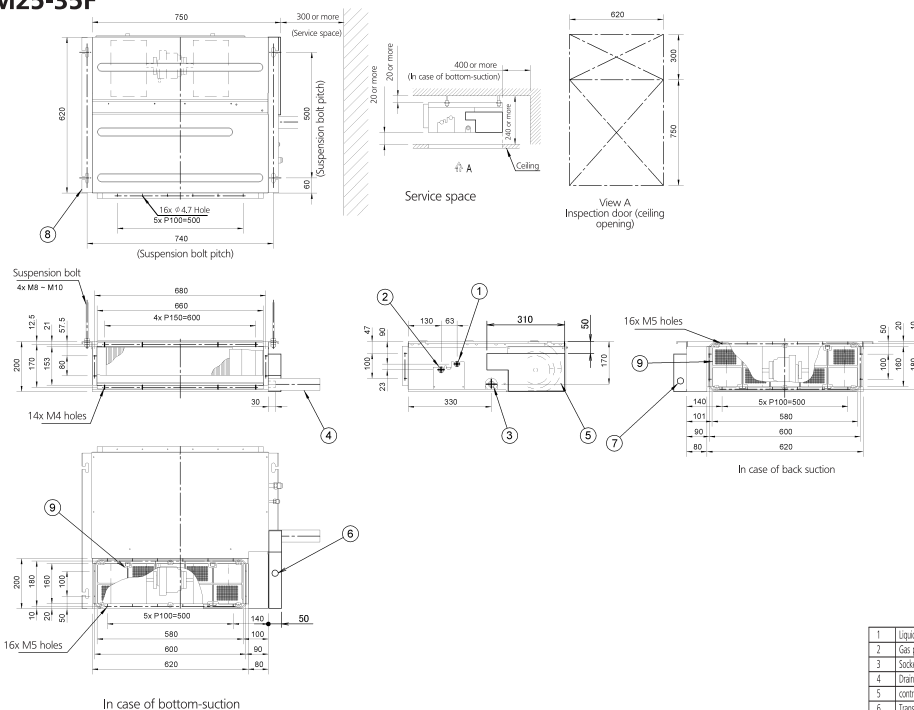
- (1) For DAME only
 (2) For residential use only. Cannot be used together with other centralised control equipment.
 (3) Included languages are:
 Language pack 1: English, German, French, Dutch, Spanish, Italian and Portuguese.
 With PC cable - EKPCAB3 - in combination with the Updater PC software, you can additionally change the language to:
 Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian.
 Language pack 3: English, Greek, Polish, Russian, Serbian, Slovakian and Turkish.
 (4) Only possible in combination with simplified remote control BRC2/3E52C.
 (5) Requires installation box for adaptor PCB.

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4 Dimensional drawings

4 - 1 Dimensional Drawings

FDXM25-35F



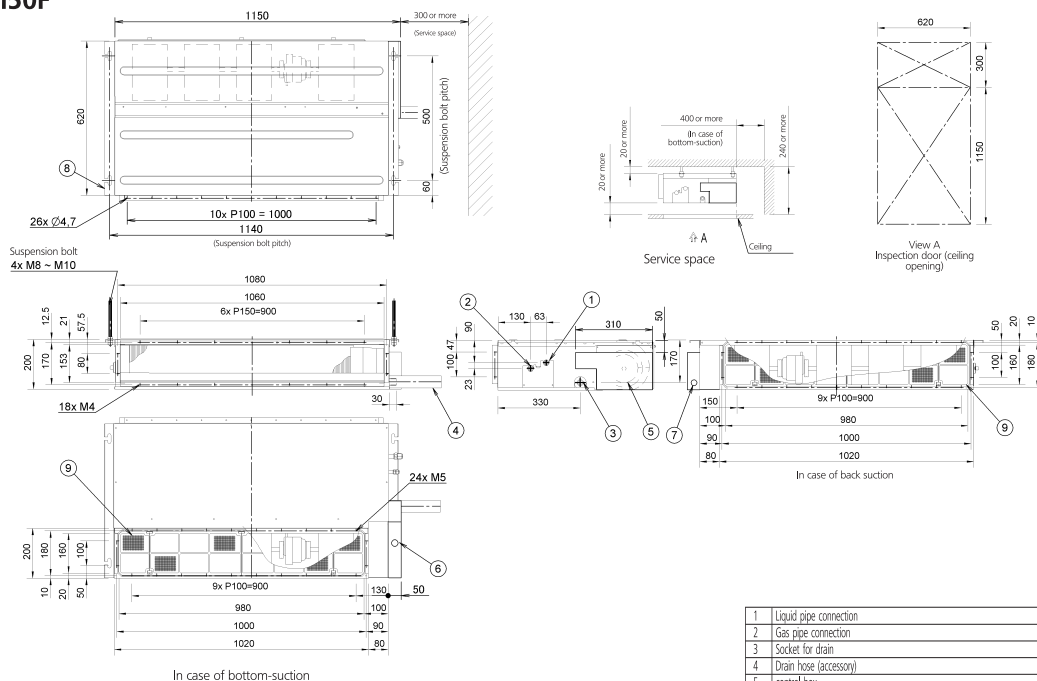
Note:

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 12.7 Flare connection
3	Socket for drain	VP 20 (ID: Φ 25, 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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FDXM50F



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.

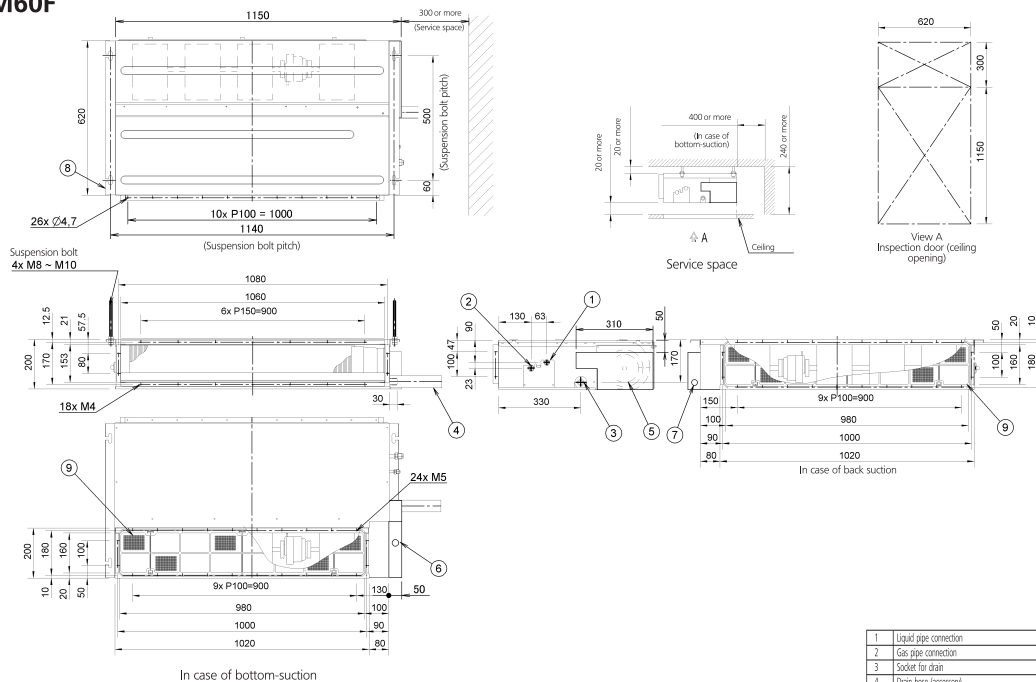
1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 12.7 Flare connection
3	Socket for drain	VP 20 (ID: Φ 25, ID: Φ 20)
4	Drain hose (accessory)	ID: Φ 25 (Outlet)
5	Control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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4 Dimensional drawings

4 - 1 Dimensional Drawings

FDXM60F



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.

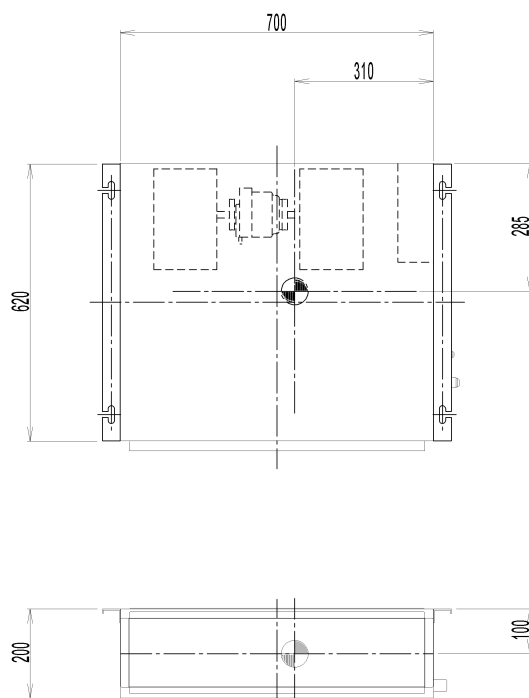
1	Liquid pipe connection	Ø 6.4 flare connection
2	Gas pipe connection	Ø 12.7 flare connection
3	Socket for drain	VP 20 (OD: Ø 25, ID: Ø 20)
4	Drain hose (accessory)	Ø 25 (Outer)
5	Control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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5 Centre of gravity

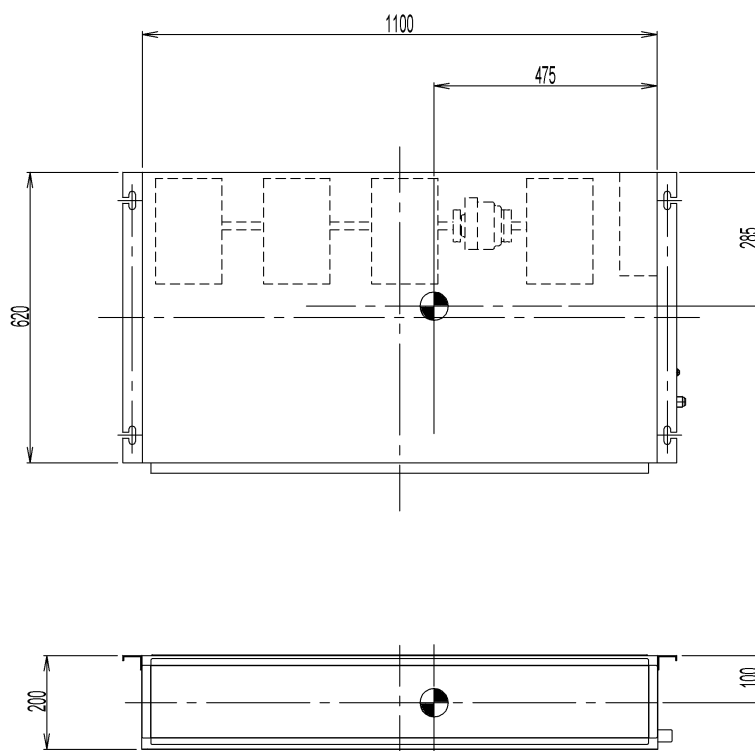
5 - 1 Centre of Gravity

FDXM25-35F



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FDXM50F



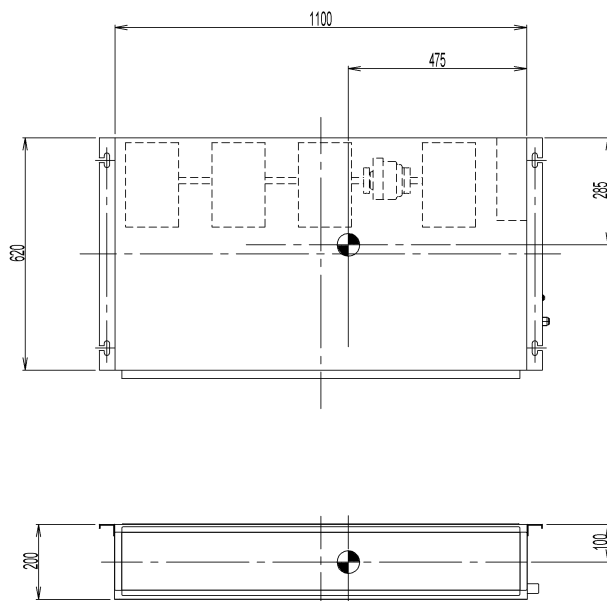
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5 Centre of gravity

5 - 1 Centre of Gravity

5

FDXM60F

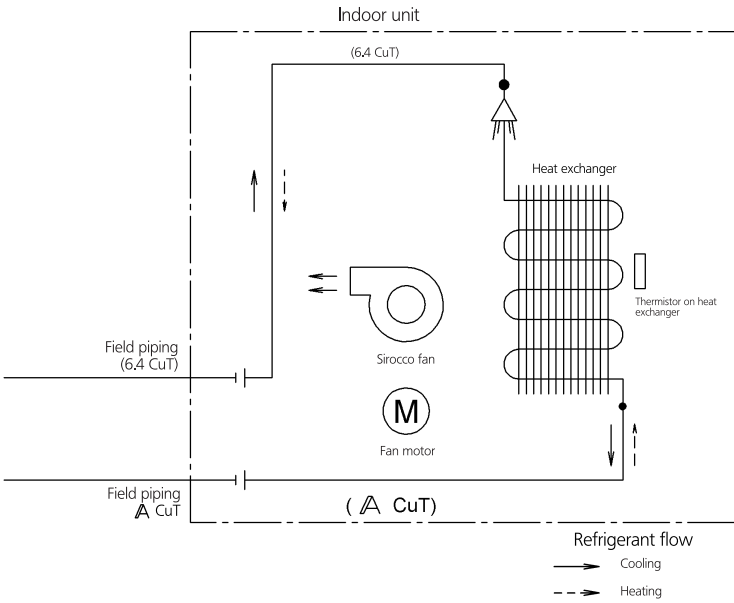


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6 Piping diagrams

6 - 1 Piping Diagrams

FDXM-F



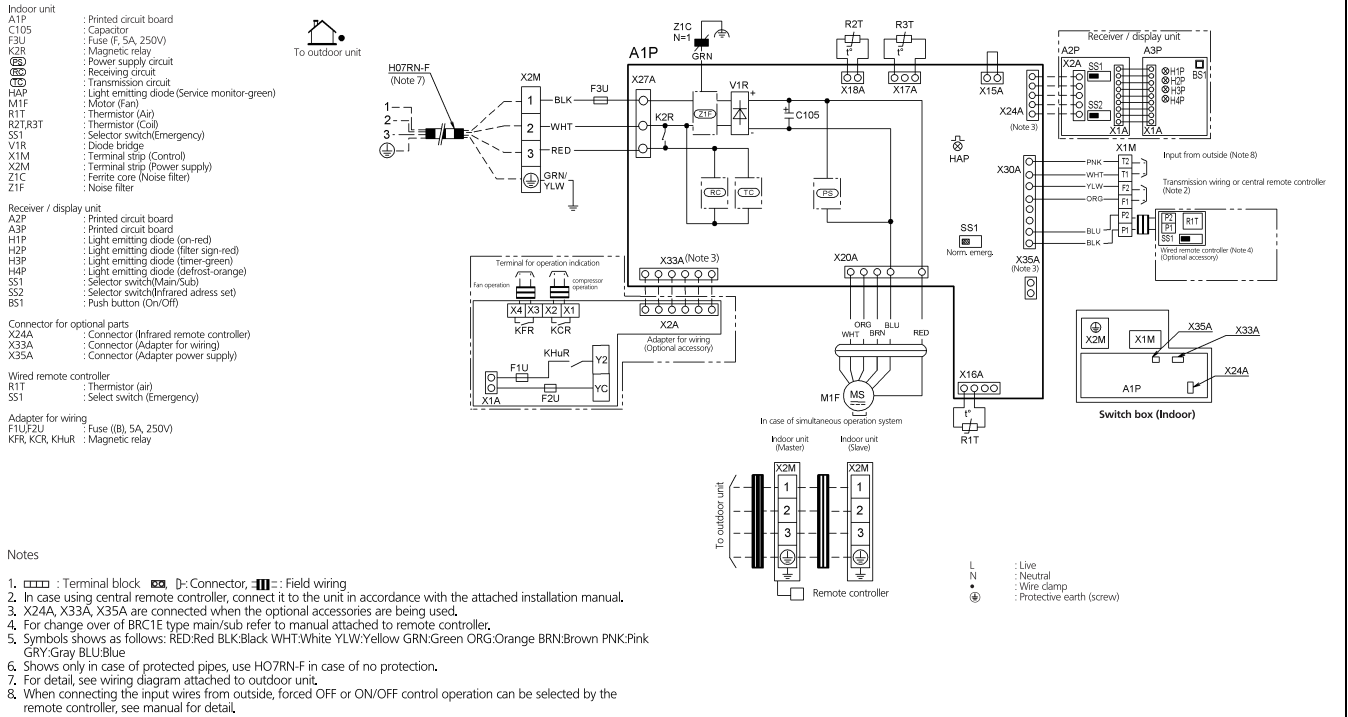
Model	A
FDXM25F FDXM35F	9.5
FDXM50F FDXM60F	12.7

4D081335B

7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FDXM-F

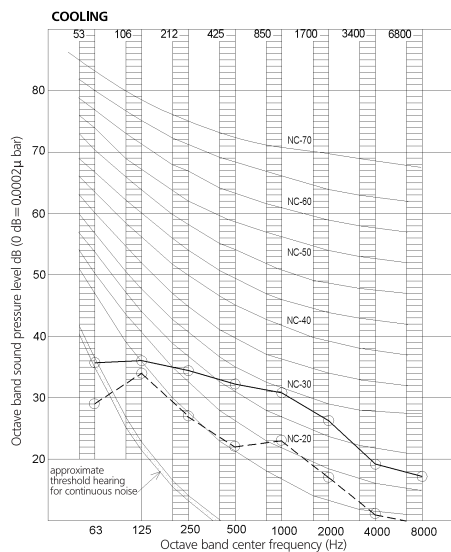


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8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

FDXM25-35F



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)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 220-240V 50Hz/220-230V 60Hz

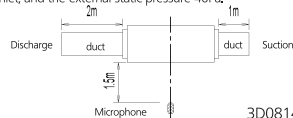
6 Standard external static pressure

JIS

○—○ (H) 220-240V 50Hz/220-230V 60Hz

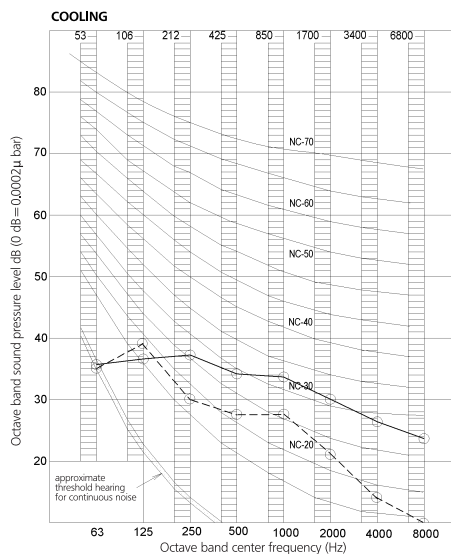
○—○ (L) 220-240V 50Hz/220-230V 60Hz

7 Location of microphone:



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FDXM50F



NOTES

1 Overall (dB)

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

(B.G.N is already rectified)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 230V 50Hz/220V 60Hz

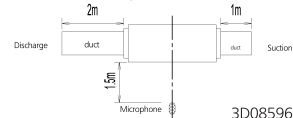
6 Standard external static pressure

JIS

○—○ (H) 230V 50Hz/220V 60Hz

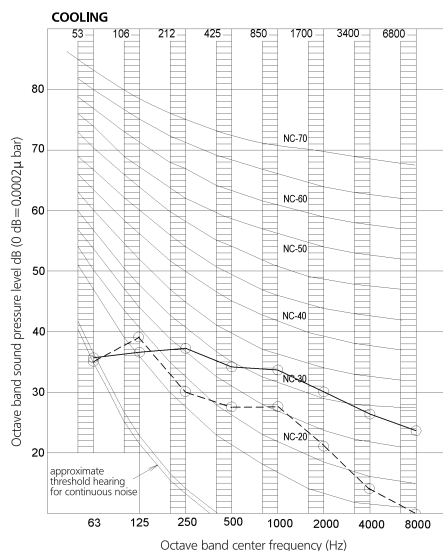
○—○ (L) 230V 50Hz/220V 60Hz

7 Location of microphone:



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FDXM60F



NOTES

1 Overall (dB)

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

(B.G.N is already rectified)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 230V 50Hz/220V 60Hz

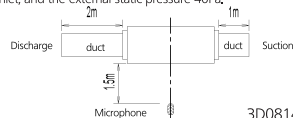
6 Standard external static pressure

JIS

○—○ (H) 230V 50Hz/220V 60Hz

○—○ (L) 230V 50Hz/220V 60Hz

7 Location of microphone:



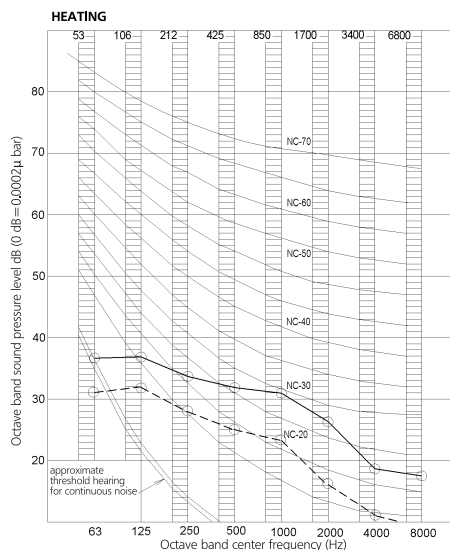
3D081405

8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

8

FDXM25-35F



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)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 220-240V 50Hz/220-230V 60Hz

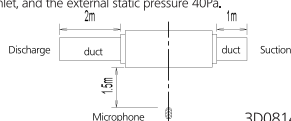
6 Standard external static pressure

JIS

○—○ (H) 220-240V 50Hz/220-230V 60Hz

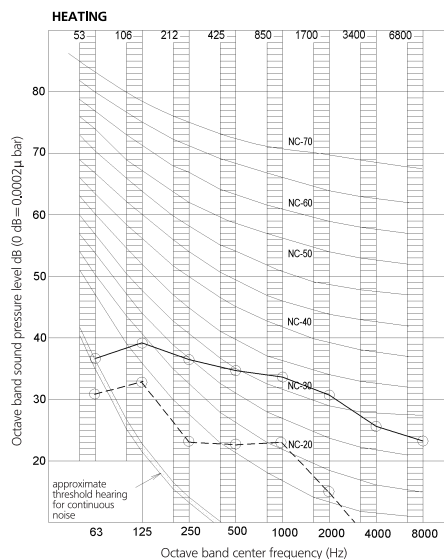
○---○ (L) 220-240V 50Hz/220-230V 60Hz

7 Location of microphone:



3D081403

FDXM50F



NOTES

1 Overall (dB)

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

(B.G.N. is already rectified)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 230V 50Hz/220V 60Hz

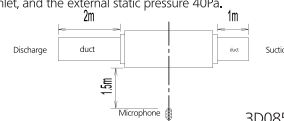
6 Standard external static pressure

JIS

○—○ (H) 230V 50Hz/220V 60Hz

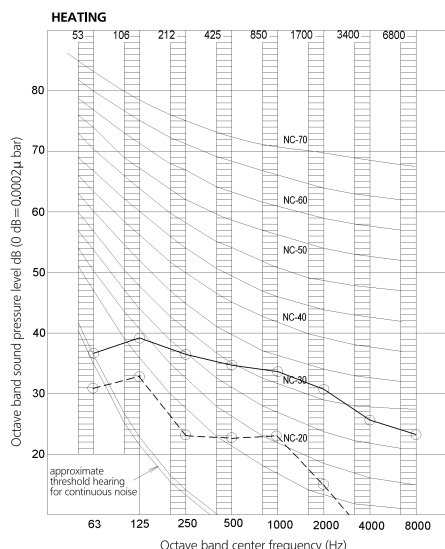
○---○ (L) 230V 50Hz/220V 60Hz

7 Location of microphone:



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FDXM60F



NOTES

1 Overall (dB)

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

(B.G.N. is already rectified)

2 Measuring place: Measure in anechoic room

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

5 Operating conditions:
Power source 230V 50Hz/220V 60Hz

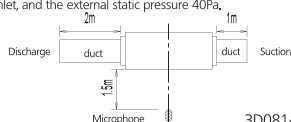
6 Standard external static pressure

JIS

○—○ (H) 230V 50Hz/220V 60Hz

○---○ (L) 230V 50Hz/220V 60Hz

7 Location of microphone:

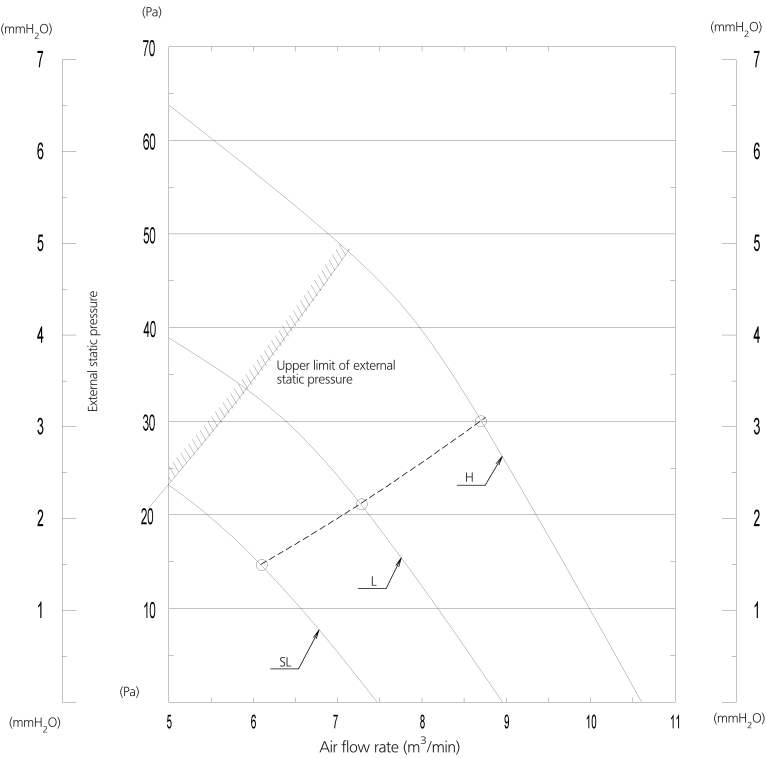


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9 Fan characteristics

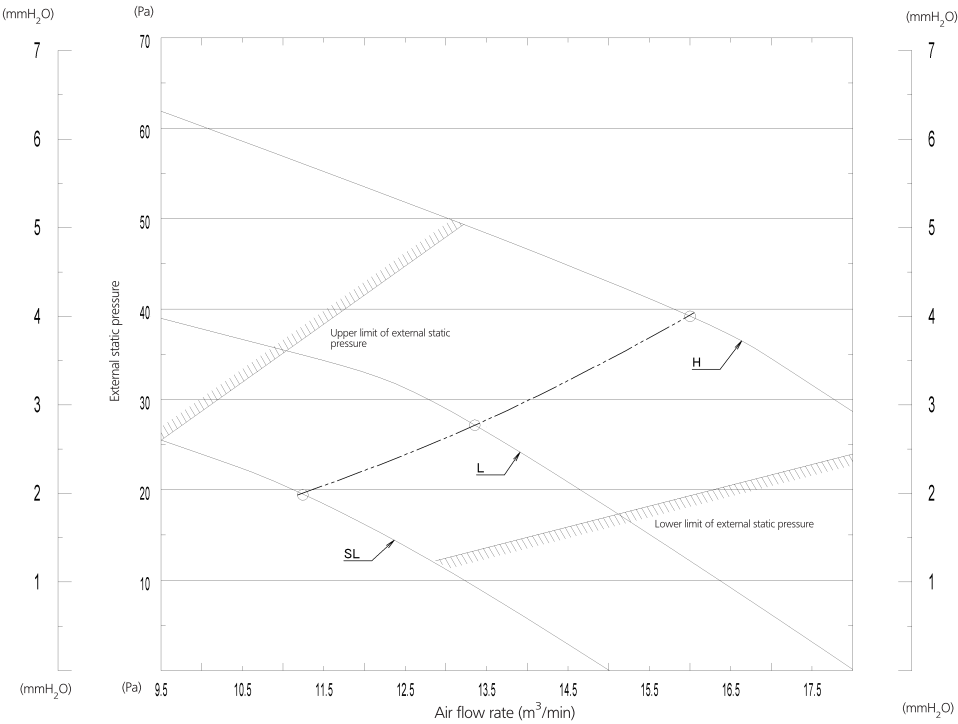
9 - 1 Fan Characteristics

FDXM25-35F



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FDXM50F

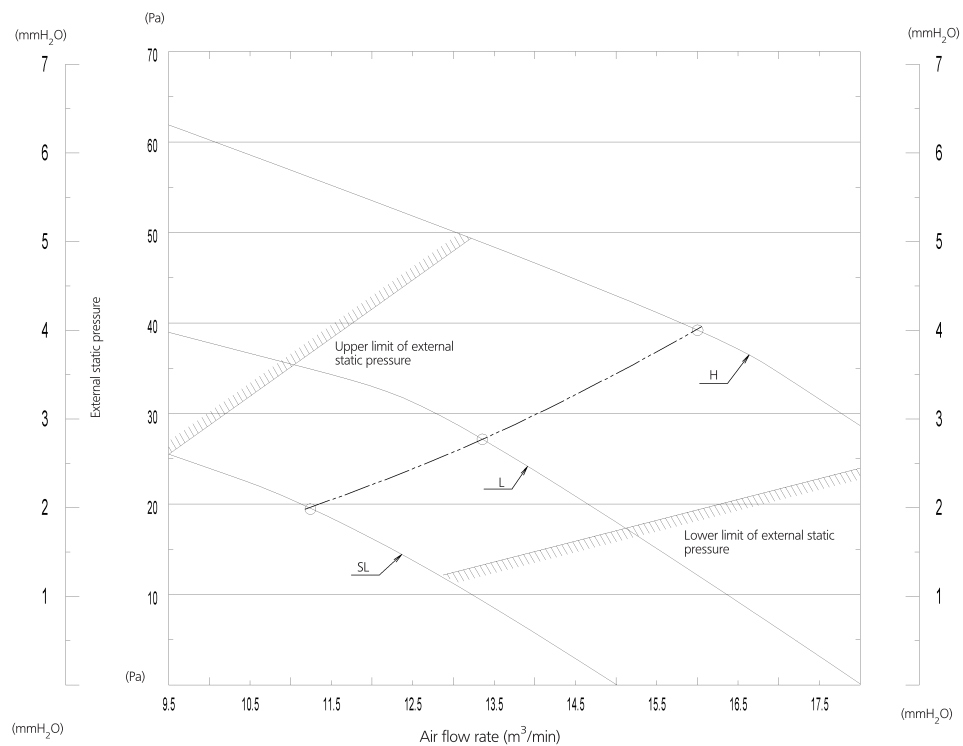


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9 Fan characteristics

9 - 1 Fan Characteristics

FDXM60F



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