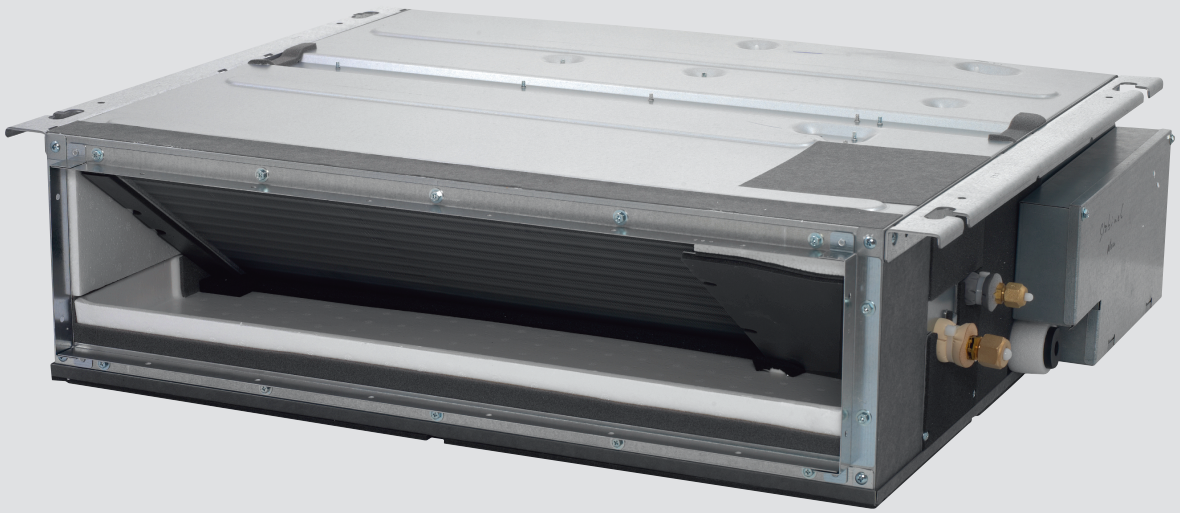
Split

Air Conditioning Technical Data

FDXM-F3



> FDXM25F3V1B
> FDXM35F3V1B
> FDXM50F3V1B
> FDXM60F3V1B

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FDXM-F3

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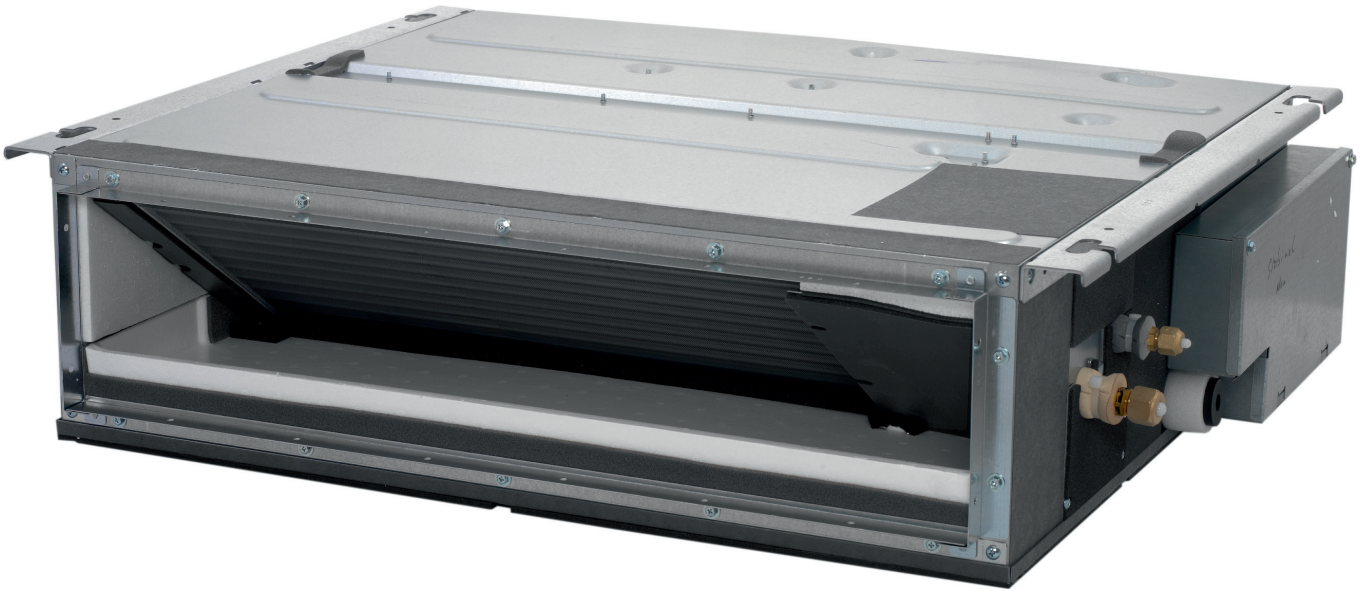
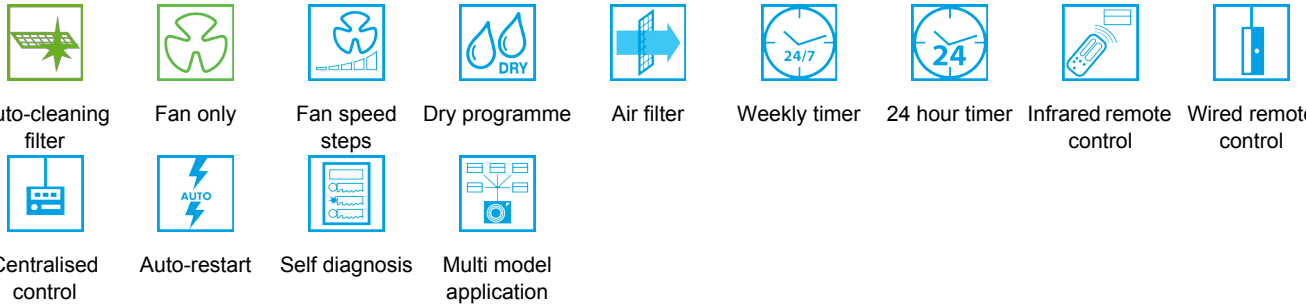
1 Features

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

- Invisible unit as the unit is concealed in the ceiling: only the suction and discharge grilles are visible
- Improved in-room air quality, higher efficiency and lower maintenance costs as dust can easily be removed with a vacuum cleaner (self cleaning kit option)
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- Low energy consumption thanks to DC fan motor





Auto-cleaning filter | 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						FDXM25F3	FDXM35F3	FDXM50F3	FDXM60F3
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	266/922/768		266/1,322/768	
Weight	Unit				kg	21		28	
	Packed unit				kg	24		31	
Heat exchanger	Length				mm	500		900	
	Rows	Quantity				3		2	
	Fin pitch				mm	1.50			
	Stages	Quantity				12			
	Passes	Quantity				2.0		5.0	
	Tube type					ø7 Hi-XD			
	Fin	Type				Multi slit fin			
Air filter	Type					Removable / washable			
Fan	Type					Sirocco fan			
	Air flow rate	Cooling	High		m³/min	8.7		15.8	16.0
					cfm	307		558	565
			Medium		m³/min	8.0		14.6	14.8
					cfm	282		516	523
			Low		m³/min	7.3		13.3	13.5
					cfm	258		467	477
		Heating	High		m³/min	8.7		15.8	16.0
					cfm	307		558	565
			Medium		m³/min	8.0		14.6	14.8
					cfm	282		516	523
			Low		m³/min	7.3		13.3	13.5
					cfm	258		467	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		1,270/1,150/1,030	1,280/1,160/1,040
		Heating	High/Medium/Low		rpm	1,270/1,180/1,090		1,270/1,150/1,030	1,280/1,160/1,040
Sound power level	Cooling				dBA	53		55	56
	Heating				dBA	53		55	56
Sound pressure level	Cooling	High/Medium/Low			dBA	35/33/27		38/35/30	
	Heating	High/Medium/Low			dBA	35/33/27		38/35/30	
Refrigerant	Type					R-32 / R-410A			
Piping connections	Liquid	OD				6,35			
	Gas	OD				9.50		12.70	
	Drain					VP20 (I.D. 20/O.D. 26)			
	Heat insulation					Both liquid and gas pipes			
Temperature control						Microcomputer control			

Standard Accessories : Installation manual; Quantity : 1;
Standard Accessories : Operation manual; Quantity : 1;
Standard Accessories : Insulation for fitting; Quantity : 1;
Standard Accessories : Sealing pad; Quantity : 1;
Standard Accessories : Clamp metal; Quantity : 1;
Standard Accessories : Drain hose; Quantity : 1;
Standard Accessories : Washer for hanger bracket; Quantity : 8;
Standard Accessories : Sealing material; Quantity : 2;
Standard Accessories : Clamps; Quantity : 6;

2 Specifications

Standard Accessories : Washer fixing plate; Quantity : 4;
Standard Accessories : Screws for duct flanges; Quantity : 1;
Standard Accessories : Air filter; Quantity : 1;

2-2 Electrical Specifications				FDXM25F3	FDXM35F3	FDXM50F3	FDXM60F3
Power supply	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.3		0.5	
		Heating	A	0.3		0.5	
Wiring connections - 50Hz	For power supply	Remark		4 for interunit wiring			

3 Options

3 - 1 Options

FDXM-F3

	Product name			
Option kit	FDXM25F3V1B	FDXM35F3V1B	FDXM50F3V1B	FDXM60F3V1B
Wired remote control	BRC1D52/BRC1D61 BRC1E53A7[(1)(4)]/BRC1E53B7[(2)(4)]/BRC1E53C7[(3)(4)]			
Simplified remote control	BRC2E52C7[(5)]			
Stylish remote control				
Remote control for hotel use	BRC3E52C7[(5)]			
Wireless remote control	BRC4C65			
Central remote control	DCS302CA51/DCS302CA61[(8)]			
Unified ON/OFF controller	DCS301BA51/DCS301BA61[(8)]			
Schedule timer	DST301BA51/DST301BA61[(8)]			
Residential central remote control	DCS303A51[(8)]			
Adaptor for wiring	KRP1B56[(6)]			
Wiring adaptor for electrical appendices 1	KRP2A53[(6)]			
Wiring adaptor for electrical appendices 2	KRP4A54[(6)]			
Remote sensor	KRCS01-4B			
Installation box for adaptor PCB	KRP1BA101			
Electrical box with earth terminal (2 blocks)	KJB212AA			
Electrical box with earth terminal (3 blocks)	KJB311AA			
Noise filter (for electromagnetic interface only)	KEK26-1A			
Insulation kit for high humidity	KDT25N32/KDT25N50/KDT25N63			
Digital input adaptor	BRP7A54[(6)(7)]			
Auto cleaning filter - Small	BAE20A62	BAE20A62	-	-
Auto cleaning filter - Large	-	-	BAE20A102	BAE20A102
Wi-Fi adaptor for smartphones	BRP069A81			

(1) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
(2) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
(3) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
(4) Includes duty rotation functionality
(5) Included languages are:
Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With PC cable EKPCCAB3 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, Slovak, and Turkish.
(6) Requires installation box 6.
(7) Only possible in combination with simplified remote control BRC2/3E52C7.
(8) For Daikin Middle East only.
(9) For residential use only. Cannot be used with other centralised control equipment.

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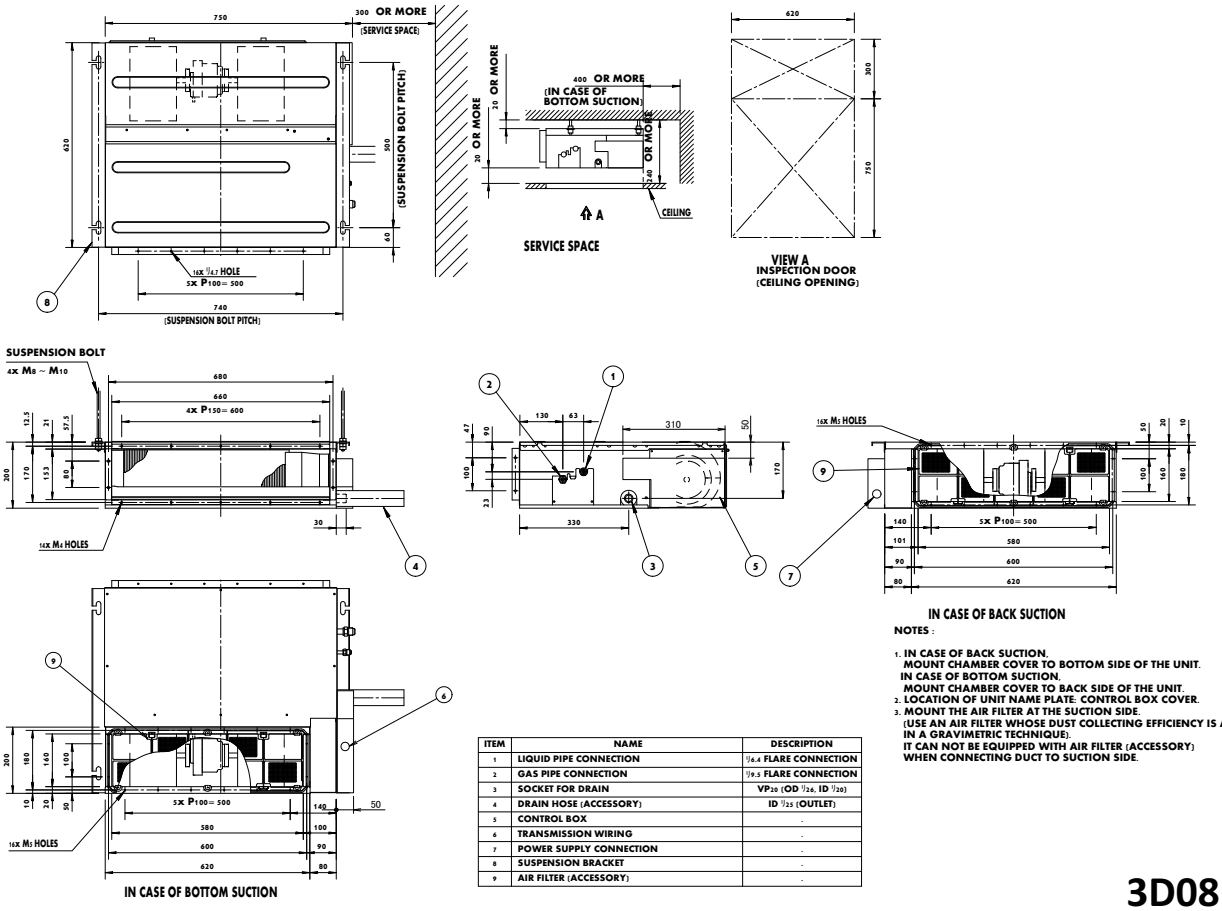
4 Dimensional drawings

4 - 1 Dimensional Drawings

FDXM25-35F3



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 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.

ITEM	NAME	DESCRIPTION
1	LIQUID PIPE CONNECTION	3/8 6.4 FLARE CONNECTION
2	GAS PIPE CONNECTION	1/2 9.5 FLARE CONNECTION
3	SOCKET FOR DRAIN	VP20 (OD 1/26, ID 1/20)
4	DRAIN HOSE (ACCESSORY)	ID 1/25 (OUTLET)
5	CONTROL BOX	-
6	TRANSMISSION WIRING	-
7	POWER SUPPLY CONNECTION	-
8	SUSPENSION BRACKET	-
9	AIR FILTER (ACCESSORY)	-

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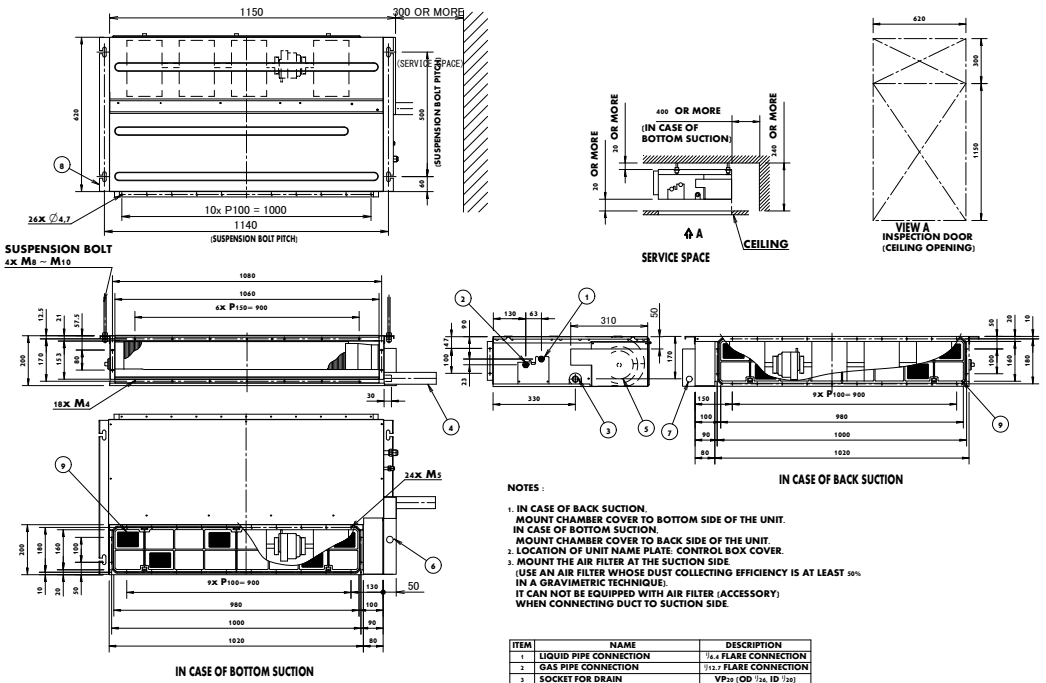
FDXM50-60F3



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 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.

ITEM	NAME	DESCRIPTION
1	LIQUID PIPE CONNECTION	3/8 6.4 FLARE CONNECTION
2	GAS PIPE CONNECTION	5/8 12.7 FLARE CONNECTION
3	SOCKET FOR DRAIN	VP20 (OD 1/26, ID 1/20)
4	DRAIN HOSE (ACCESSORY)	ID 1/25 (OUTLET)
5	CONTROL BOX	-
6	TRANSMISSION WIRING	-
7	POWER SUPPLY CONNECTION	-
8	SUSPENSION BRACKET	-
9	AIR FILTER (ACCESSORY)	-

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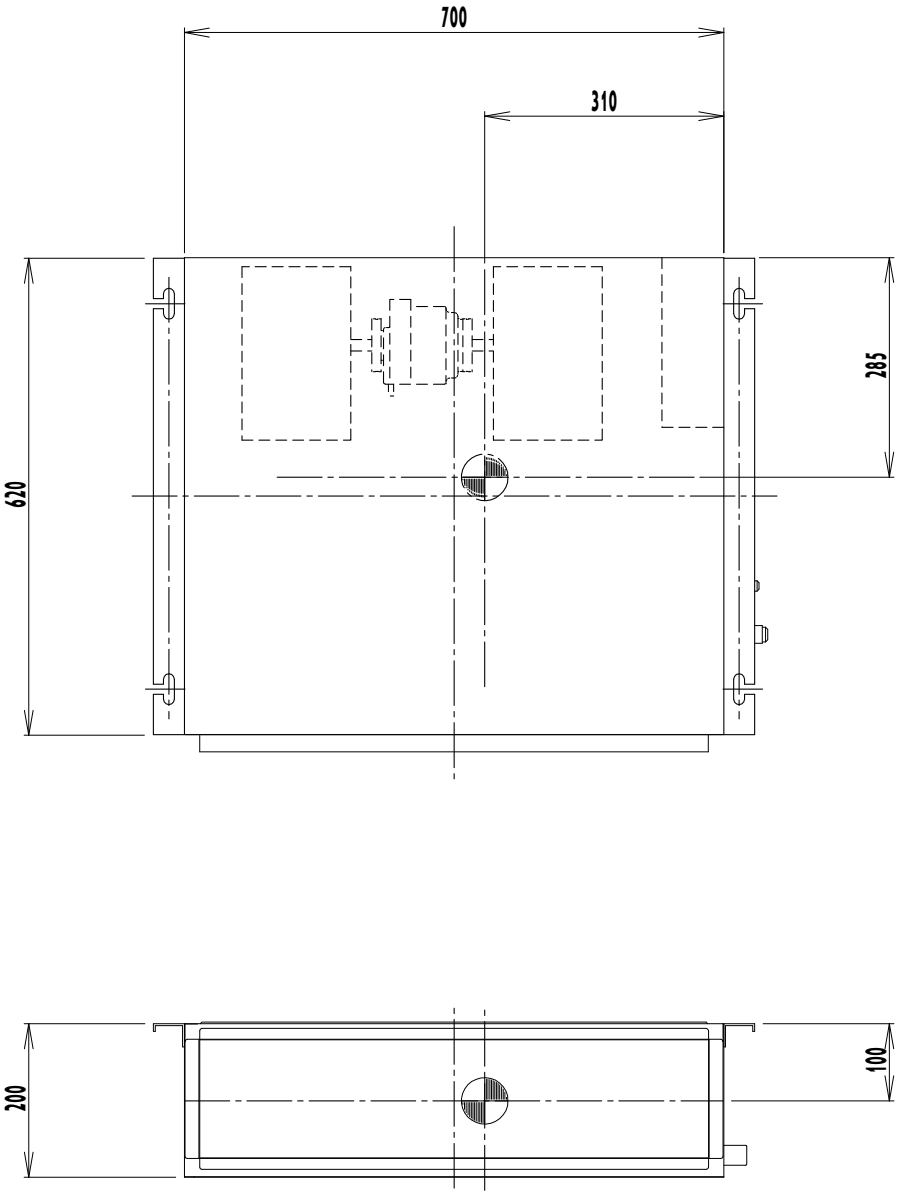
5 Centre of gravity

5 - 1 Centre of Gravity

FDXM25-35F3



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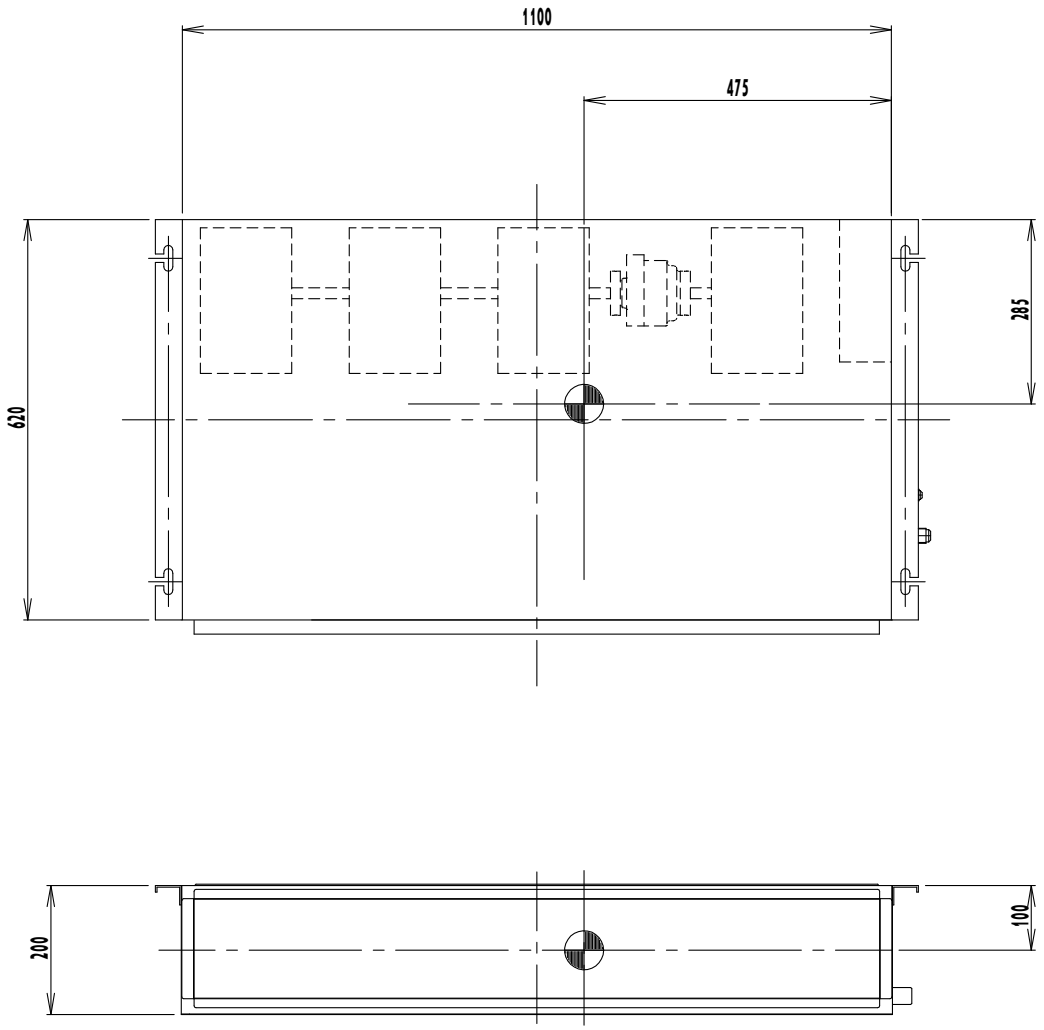
5 Centre of gravity

5 - 1 Centre of Gravity

FDXM50-60F3



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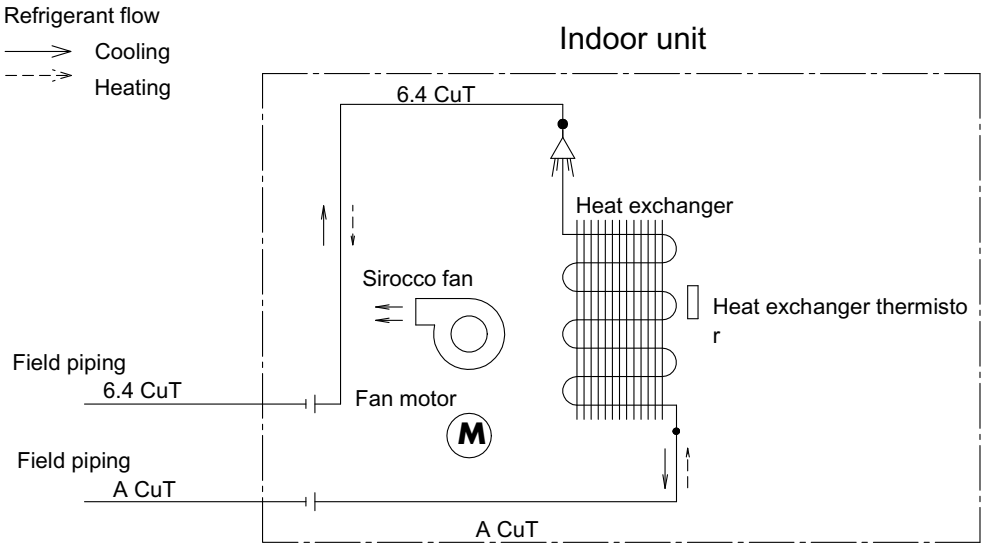
6 Piping diagrams

6 - 1 Piping Diagrams

FDXM-F3



	A
FDXS25F2VEB FDXS35F2VEB FNQ25A2VEB FNQ35A2VEB FDXM25F2V1B FDXM35F2V1B FDXM25F3V1B FDXM35F3V1B	9.5
FDXS50F2VEB FDXS60F2VEB FDXS50F2VEB9 FNQ50A2VEB FNQ60A2VEB FDXM50F2V1B FDXM60F2VEB FDXM50F3V1B FDXM60F3V1B	12.7

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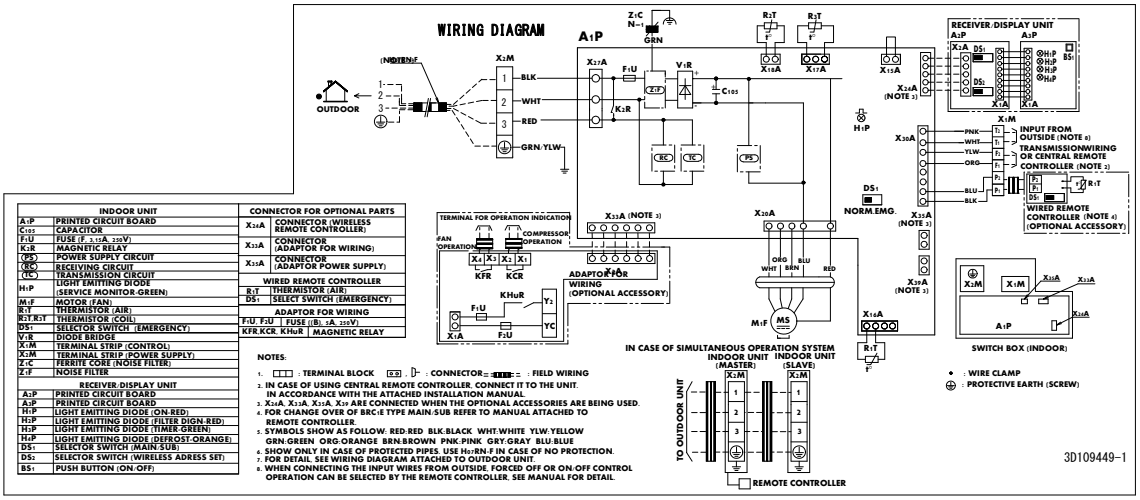
7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FDXM-F3



INDOOR UNIT	
A1P	PRINTED CIRCUIT BOARD
C105	CAPACITOR
F1U	FUSE (F 3.15A 250V)
K1R	MAGNETIC RELAY
PS	POWER SUPPLY CIRCUIT
RC	RECEIVING CIRCUIT
TC	TRANSMISSION CIRCUIT
H1P	LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)
M1F	MOTOR (FAN)
R1T	THERMISTOR (AIR)
R2T,R3T	THERMISTOR (COIL)
DS1	SELECTOR SWITCH (EMERGENCY)
V1R	DIODE BRIDGE
X1M	TERMINAL STRIP (CONTROL)
X2M	TERMINAL STRIP (POWER SUPPLY)
Z1C	FERRITE CORE (NOISE FILTER)
Z1F	NOISE FILTER
RECEIVER/DISPLAY UNIT	
A2P	PRINTED CIRCUIT BOARD
A3P	PRINTED CIRCUIT BOARD
H1P	LIGHT EMITTING DIODE (ON-RED)
H2P	LIGHT EMITTING DIODE (FILTER DIGN-RED)
H3P	LIGHT EMITTING DIODE (TIMER-GREEN)
H4P	LIGHT EMITTING DIODE (DEFROST-ORANGE)
DS1	SELECTOR SWITCH (MAIN/SUB)
DS2	SELECTOR SWITCH (WIRELESS ADRESS SET)
BS1	PUSH BUTTON (ON/OFF)

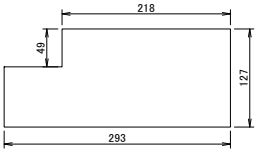
CONNECTOR FOR OPTIONAL PARTS	
X24A	CONNECTOR (WIRELESS REMOTE CONTROLLER)
X33A	CONNECTOR (ADAPTOR FOR WIRING)
X35A	CONNECTOR (ADAPTOR POWER SUPPLY)
WIRED REMOTE CONTROLLER	
R1T	THERMISTOR (AIR)
DS1	SELECT SWITCH (EMERGENCY)
ADAPTOR FOR WIRING	
F1U, F2U	FUSE (B, 3A, 250V)
KFR,KCR, KHuR	MAGNETIC RELAY

NOTES:

1. : TERMINAL BLOCK , : CONNECTOR , : FIELD WIRING
2. IN CASE OF USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT. IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
3. X33A, X34A, X35A, X39 ARE CONNECTED WHEN THE OPTIONAL ACCESSORIES ARE BEING USED.
4. FOR CHANGE OVER OF BRC1E TYPE MAIN/SUB REFER TO MANUAL ATTACHED TO REMOTE CONTROLLER.
5. SYMBOLS SHOW AS FOLLOW: RED:RED BLK:BLACK WHT:WHITE YLW:YELLOW GRN:GREEN ORG:ORANGE BRN:BROWN PNK:PINK GRY:GRAY BLU:BLUE
6. SHOW ONLY IN CASE OF PROTECTED PIPES. USE H2RN-F IN CASE OF NO PROTECTION.
7. FOR DETAIL SEE WIRING DIAGRAM ATTACHED TO OUTDOOR UNIT.
8. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY THE REMOTE CONTROLLER. SEE MANUAL FOR DETAIL.

NOTES:

1. DIMENSIONS FOR PRINTING ARE:



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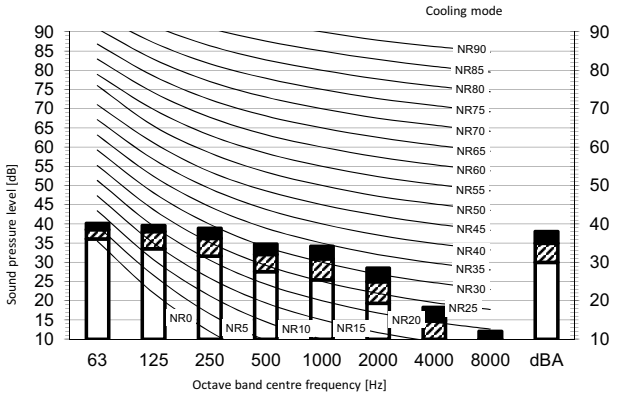
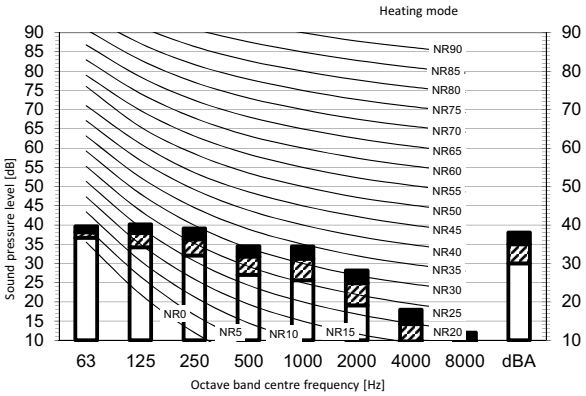
8 Sound data

8 - 1 Sound Pressure Spectrum

FDXM25-35F3



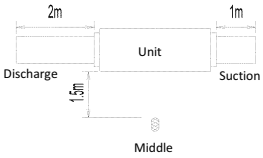


Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale	Fan speed
B	High
C	Medium
D	Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	35	33	27

Heating	Total dB		
A	B	C	D
dBA	35	33	27

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber
6. Editable data for this drawing are available in the GDE (E-BOM) system.

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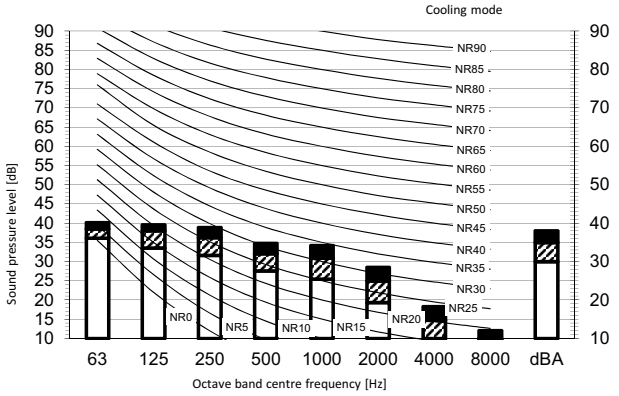
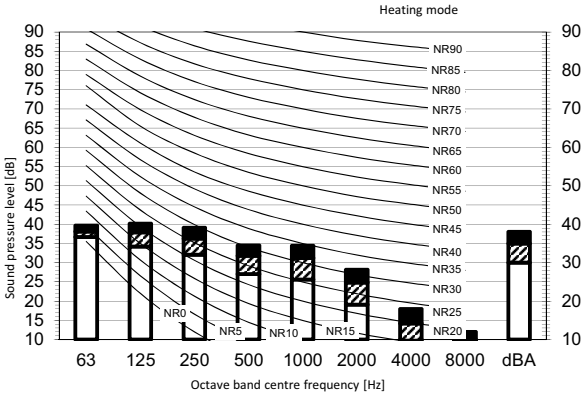
FDXM50F3



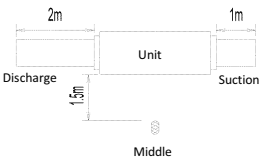


Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale	Fan speed
B	High
C	Medium
D	Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	38	35	30

Heating	Total dB		
A	B	C	D
dBA	38	35	30

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber
6. Editable data for this drawing are available in the GDE (E-BOM) system.

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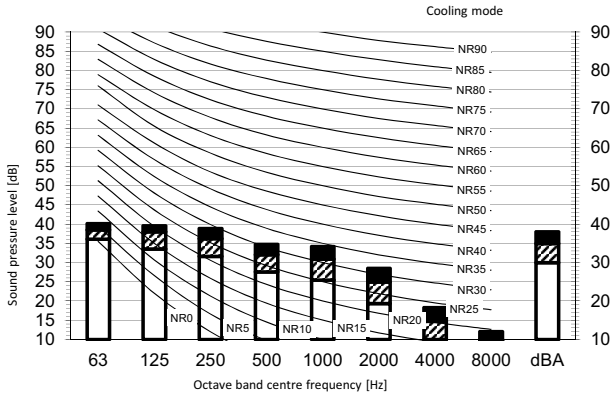
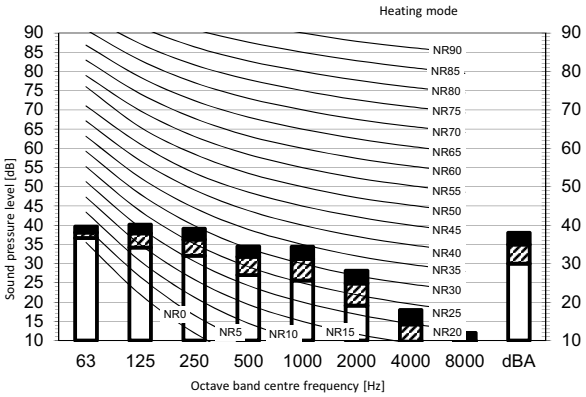
8 Sound data

8 - 1 Sound Pressure Spectrum

FDXM60F3



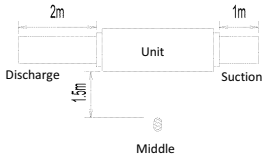


Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

	Scale	Fan speed
B	■	High
C	▨	Medium
D	□	Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	38	35	30

Heating Total dB

A	B	C	D
dBA	38	35	30

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber
6. Editable data for this drawing are available in the GDE (E-BOM) system.

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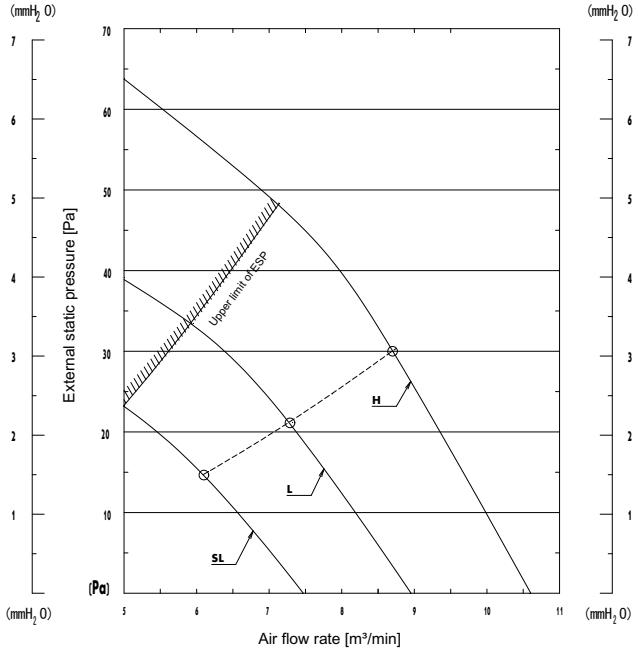
9 Fan characteristics

9 - 1 Fan Characteristics

FDXM25-35F3



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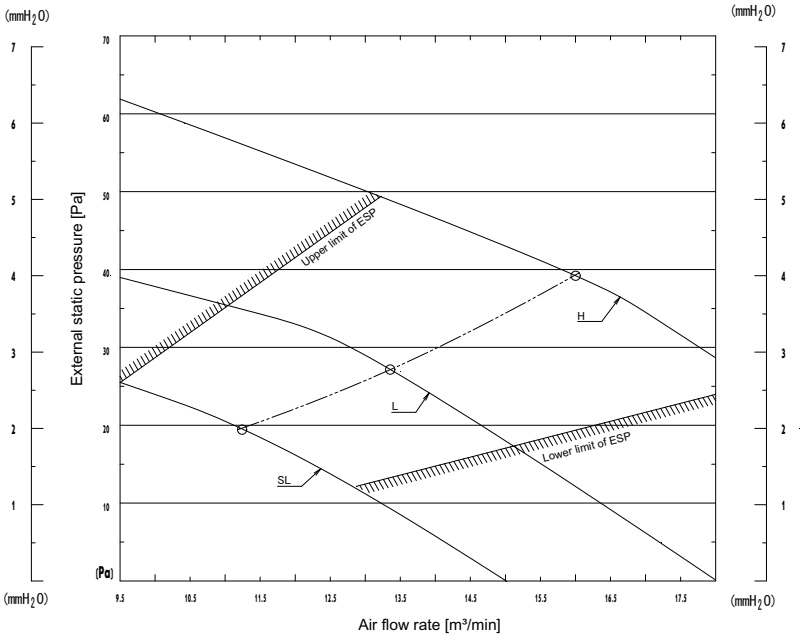
FDXM50F3



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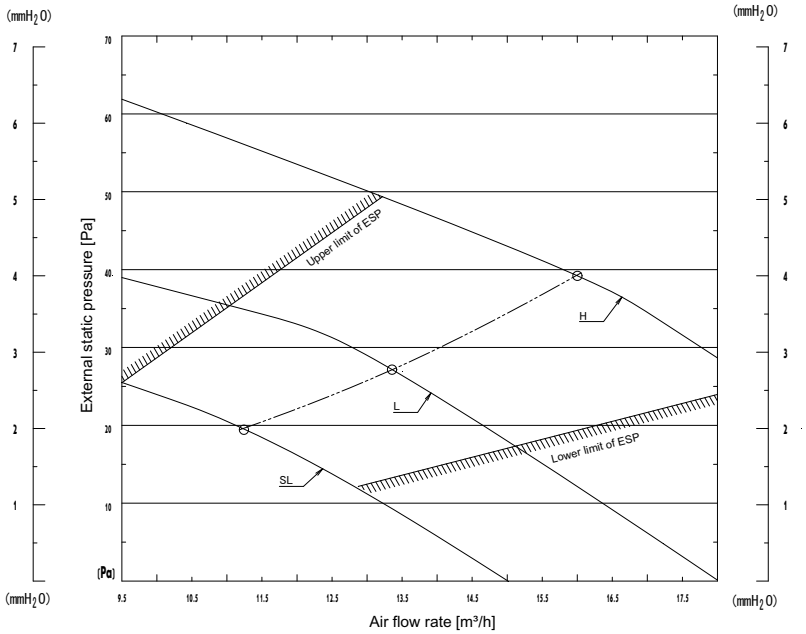
9 Fan characteristics

9 - 1 Fan Characteristics

FDXM60F3



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