

technical data



FDXS-CVMB

**Concealed Ceiling,
Inverter Controlled Unit**

air conditioning systems

Split Sky Air

TABLE OF CONTENTS

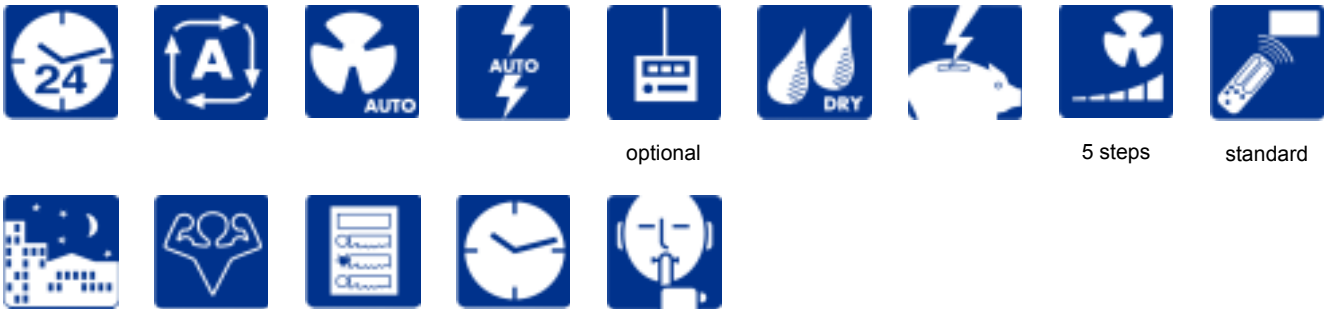
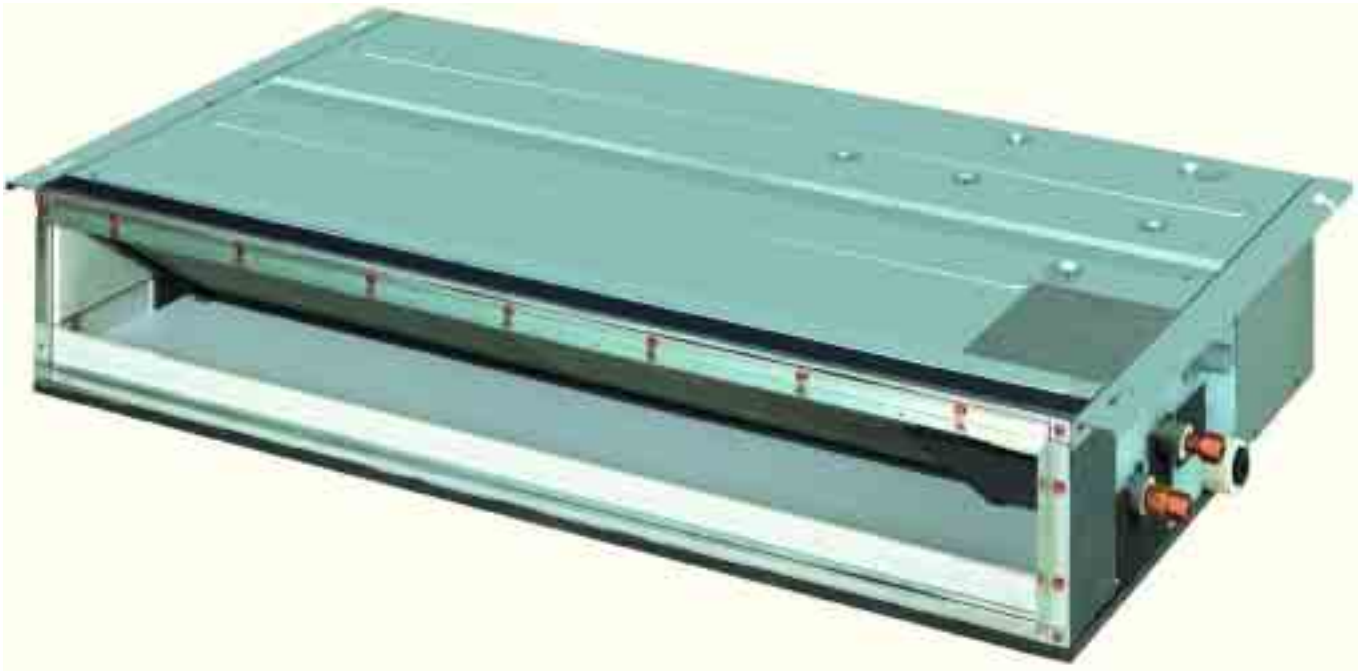
FDXS-CVMB

1	Features	2
2	Specifications	3
	For indoor units only	3
	Technical Specifications	3
	Electrical Specifications	4
3	Dimensional drawing & centre of gravity	6
	Dimensional drawing	6
	Centre of gravity	7
4	Piping diagram	9
5	Wiring diagram	10
	Wiring diagram	10
6	Sound data	11
	Sound pressure spectrum	11
7	Fan characteristics	12

1 Features

- Extremely quiet in operation
- You have the choice out of 5 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 or heating
- 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.

1



2 Specifications

2-1 FOR INDOOR UNITS ONLY			FDXS50CVMB	FDXS60CVMB
Nominal Input	Cooling	kW	0.140	0.160
	Heating	kW	0.140	0.160

2-2 TECHNICAL SPECIFICATIONS				FDXS50CVMB	FDXS60CVMB
Dimensions	Packing	Height	mm	266	266
		Width	mm	1106	1306
		Depth	mm	751	751
	Unit	Height	mm	200	200
		Width	mm	900	1100
		Depth	mm	620	620
Weight	Unit	kg	27.0	30.0	
	Packed Unit	kg	34.0	37.0	
Heat Exchanger	Dimensions	Length	mm	700	900
		Nr of Rows		3	2
		Fin Pitch	mm	1.50	1.50
		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	m³/min	12.0	16.0
		Medium	m³/min	11.0	14.8
		Low	m³/min	10.0	13.5
		Silent Operation	m³/min	8.4	11.2
	Heating	High	m³/min	12.0	16.0
		Medium	m³/min	11.0	14.8
		Low	m³/min	10.0	13.5
		Silent Operation	m³/min	8.4	11.2
Fan	Max	Standard	Pa	40	40
	Motor	Quantity		1	1
		Model	130J-23		
		Number of steps	5 steps, silent and auto		
Motor	Speed (cooling)	High	rpm	1270	1280
		Medium	rpm	1180	1160
		Low	rpm	1080	1040
		Silent Operation	rpm	930	890
	Speed (heating)	High	rpm	1270	1280
		Medium	rpm	1180	1160
		Low	rpm	1080	1040
		Silent Operation	rpm	930	890
Fan	Motor	Output (high)	W	130	130
Cooling	Sound Power	High	dBA	55.0	56.0
		Sound Pressure	High	dBA	37.0
	Sound Pressure	Medium	dBA	35.0	36.0
		Low	dBA	33.0	34.0
		Silent Operation	dBA	31.0	32.0
Heating	Sound Power	High	dBA	55.0	56.0
		Sound Pressure	High	dBA	37.0
	Sound Pressure	Medium	dBA	35.0	36.0
		Low	dBA	33.0	34.0
		Silent Operation	dBA	31.0	32.0
Refrigerant	Type	R-410A			

2 Specifications

2

2-2 TECHNICAL SPECIFICATIONS				FDXS50CVMB	FDXS60CVMB
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.4	6.4
	Gas	Diameter (OD)	mm	12.7	12.7
	Drain	Diameter (OD)	mm	I.D. 20/O.D. 26	
	Heat Insulation			Both liquid and gas pipes	
Air Filter				Removable/washable/Mildew proof	
Air direction control				Left, right, up and downwards	
Temperature control				Microcomputer control	
Standard Accessories	Item			Installation manual	
	Quantity			1 pc	
	Item			Operation manual	
	Quantity			1 pc	
	Item			Infrared remote control	
	Quantity			1 pc	
	Item			Batteries	
	Quantity			2 pcs	
	Item			Remote control holder	
	Quantity			1 pc	
	Item			Fixing screw for remote control	
	Quantity			2 pcs	
	Item			Signal receiver cover kit	
	Quantity			1 set	
	Item			Insulation for fitting	
	Quantity			1 set	
	Item			Sealing pad	
	Quantity			1 set	
	Item			Clamp metal	
	Quantity			1 pc	
	Item			Drain hose	
	Quantity			1 pc	
	Item			Washer for hanger bracket	
	Quantity			8 pcs	
	Item			Sealing material	
	Quantity			2 pcs	
Item			Clamps		
Quantity			6 pcs		
Item			Washer fixing plate		
Quantity			4 pcs		
Item			Screws for duct flanges		
Quantity			1 set		
Item			Air filter		
Quantity			1 pc		
Notes				Sound values are measured in an anechoic room.	
				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.	
				The sound power level is an absolute value indicating the power which a sound source generates.	

2-3 ELECTRICAL SPECIFICATIONS				FDXS50CVMB	FDXS60CVMB
Power Supply	Name			VM	
	Phase			1	1
	Frequency		Hz	50/60	
	Voltage		V	220-240/220-230	
Current	Nominal running current (RLA)	Cooling	A	0.64	0.74
		Heating	A	0.64	0.74
Wiring connections	For Power Supply	Quantity		3	3
		Remark		4 for interunit wiring (included earth wiring)	

4

2 Specifications

2-3 ELECTRICAL SPECIFICATIONS		FDXS50CVMB	FDXS60CVMB
Voltage range	Minimum	-10%	
	Maximum	+10%	
Power Supply Intake		Outdoor unit only	

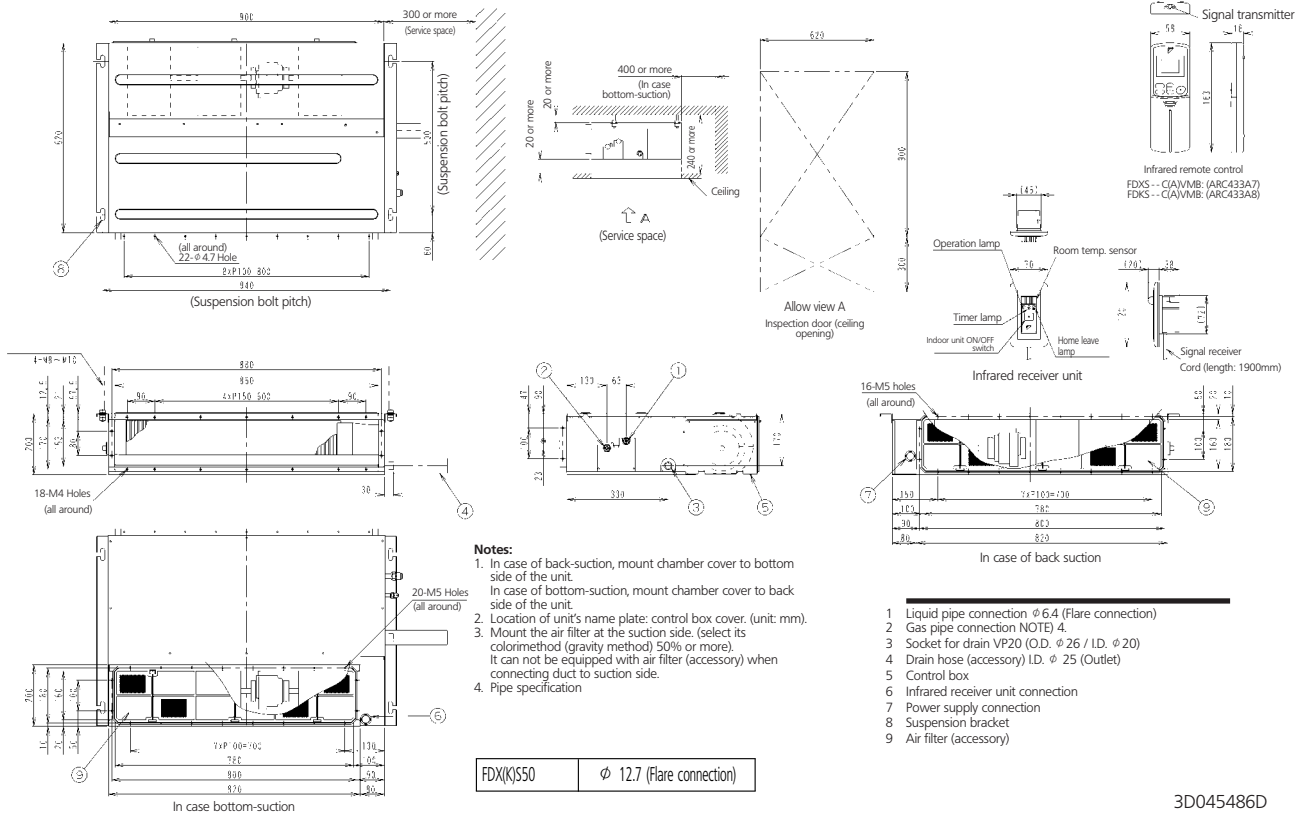
3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

3

FDK/XS50C

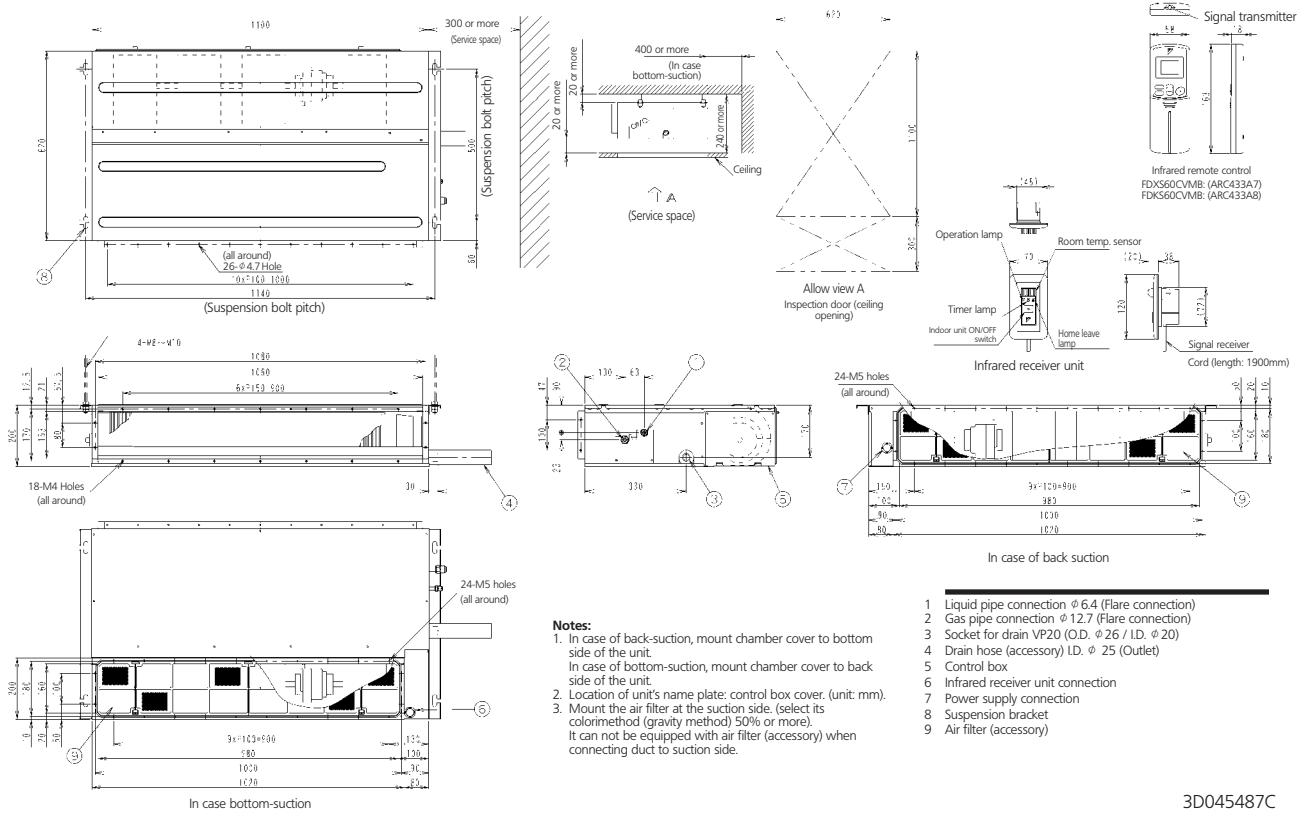
unit (mm)



3D045486D

FDK/XS60C

unit (mm)



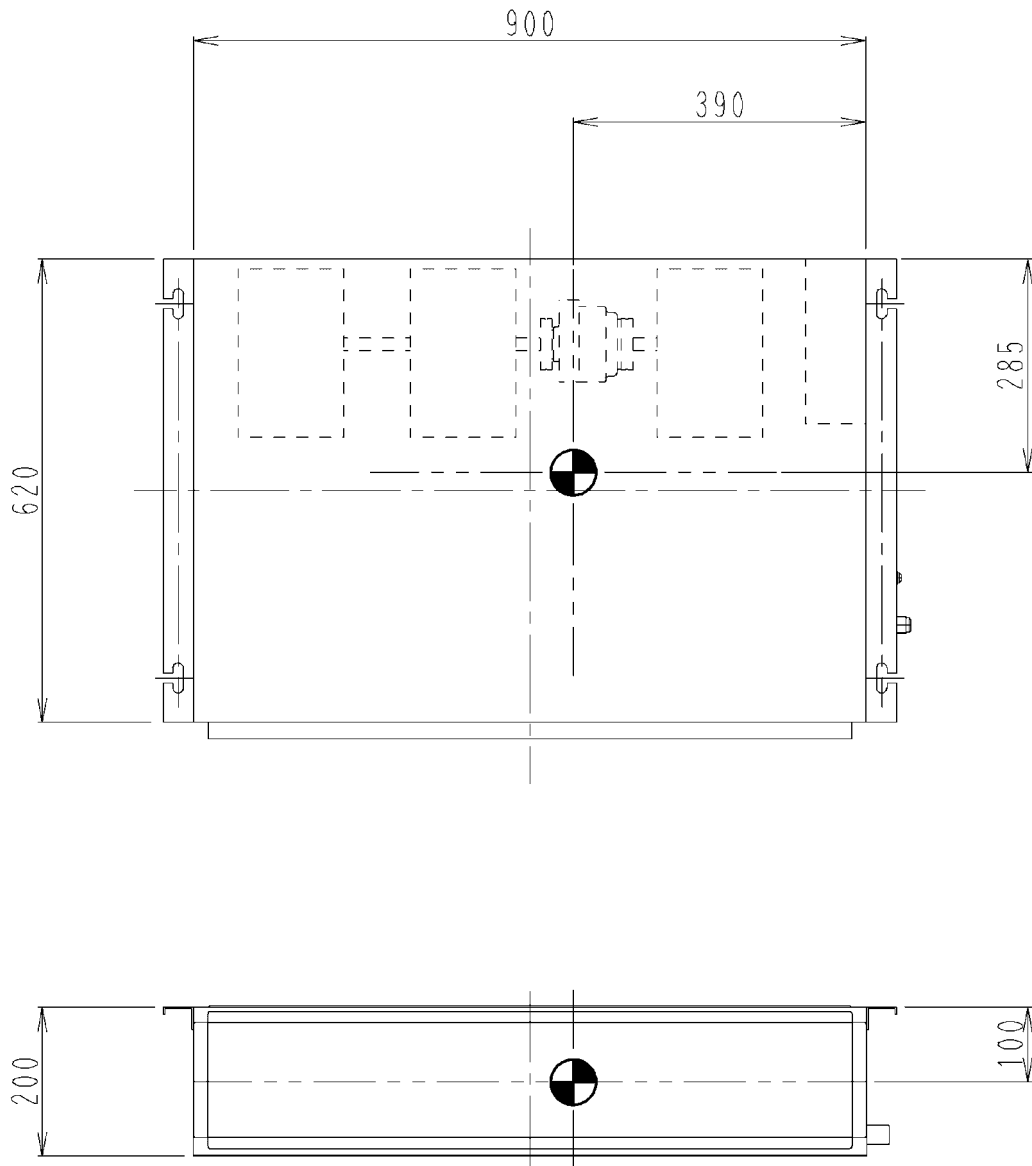
3D045487C

6

3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity

FDK/XS50C

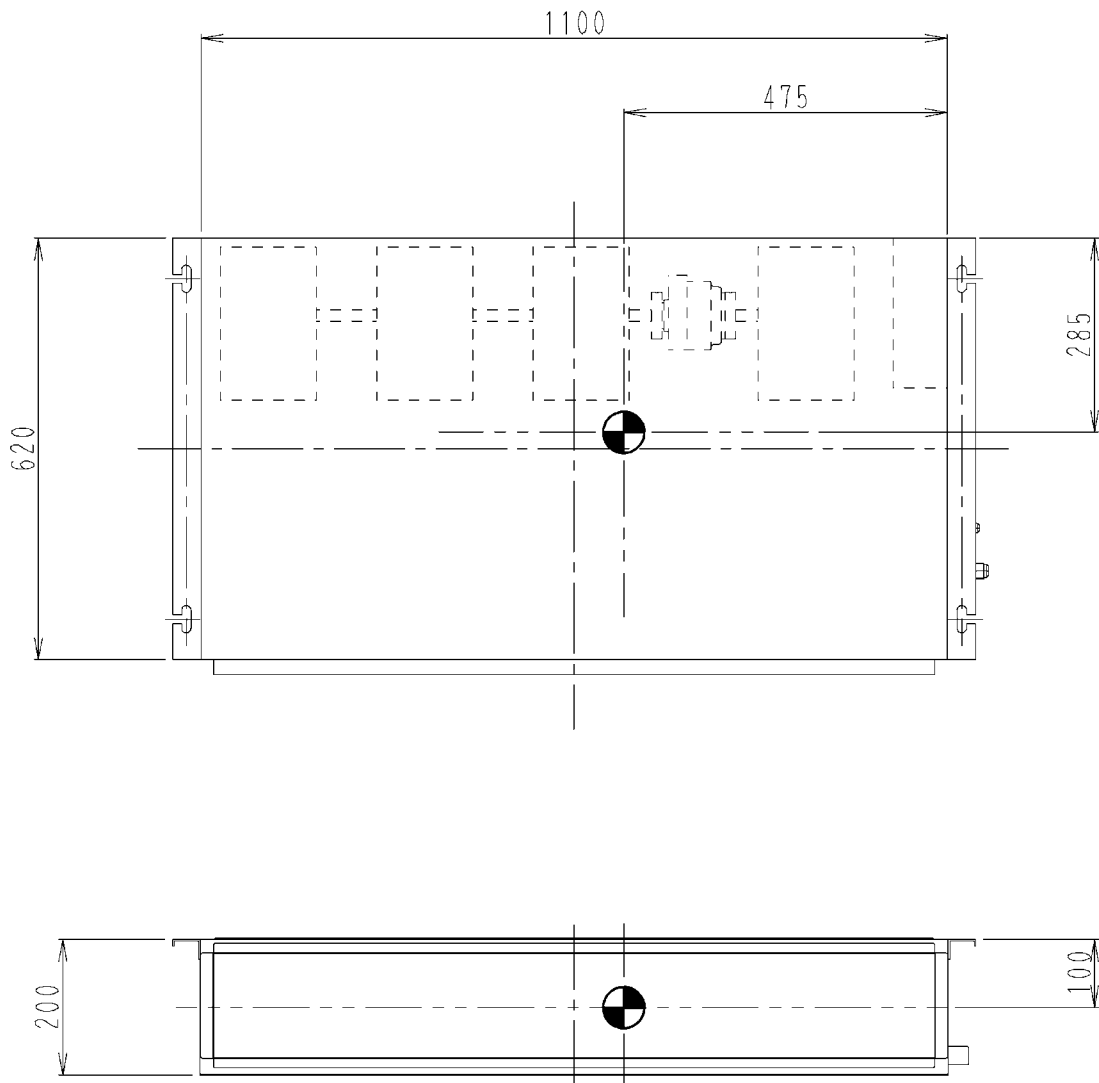


4D046081D

3 Dimensional drawing & centre of gravity

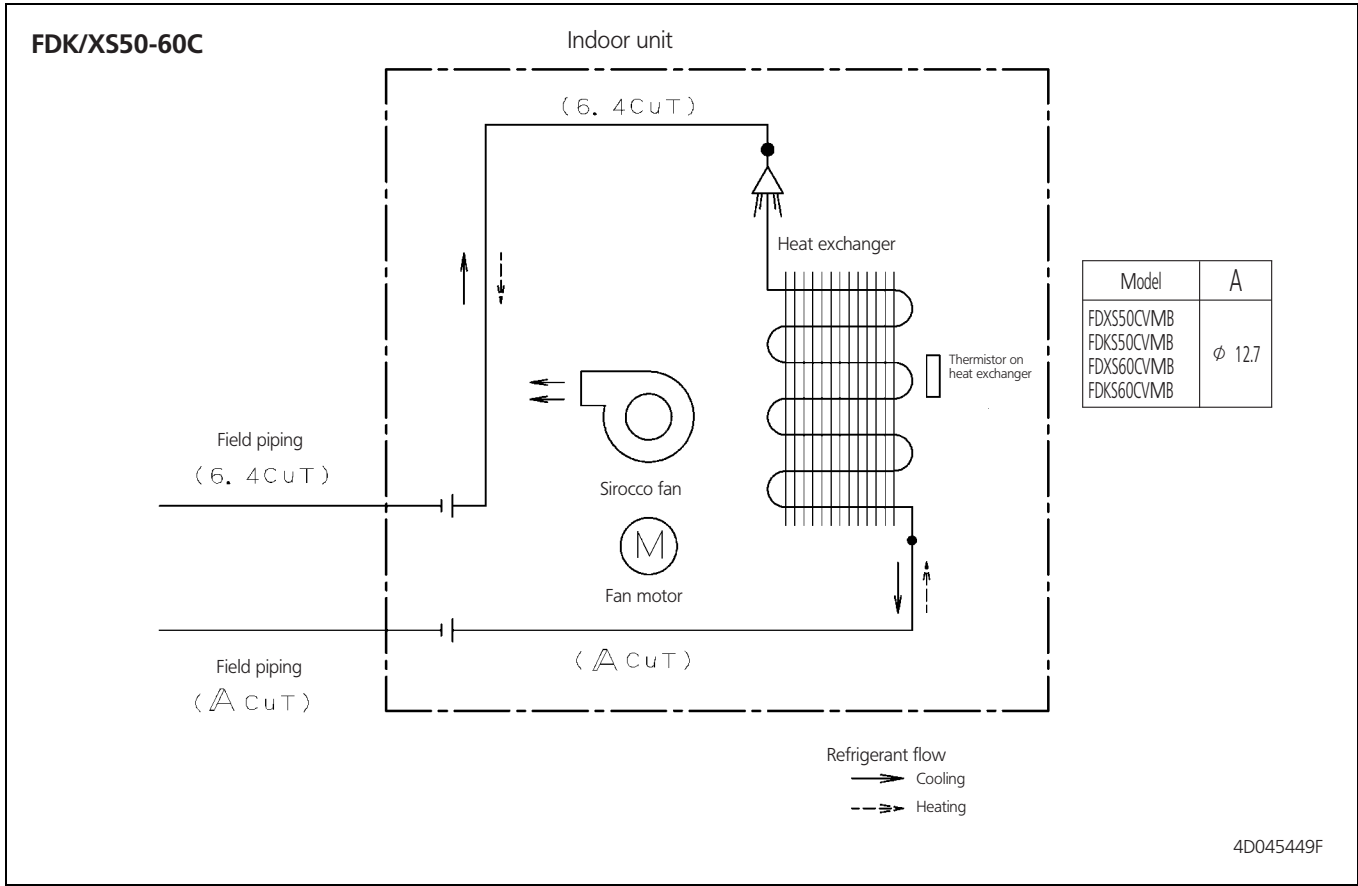
3 - 2 Centre of gravity

FDK/XS60C



4D046082C

4 Piping diagram

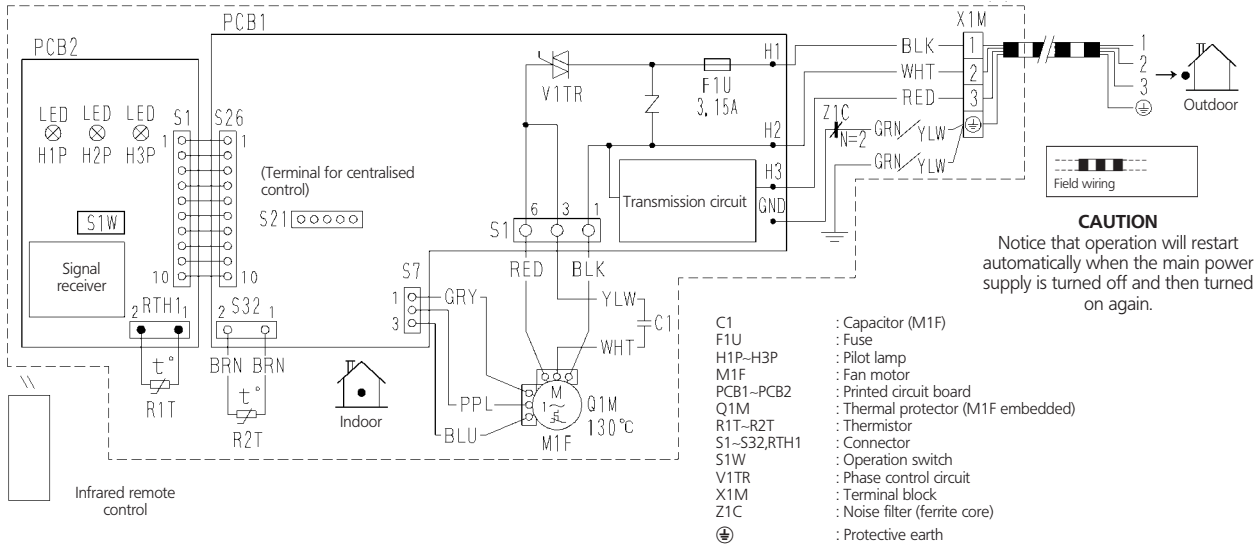


4

5 Wiring diagram

5 - 1 Wiring diagram

FDK/XS50-60C



NOTES

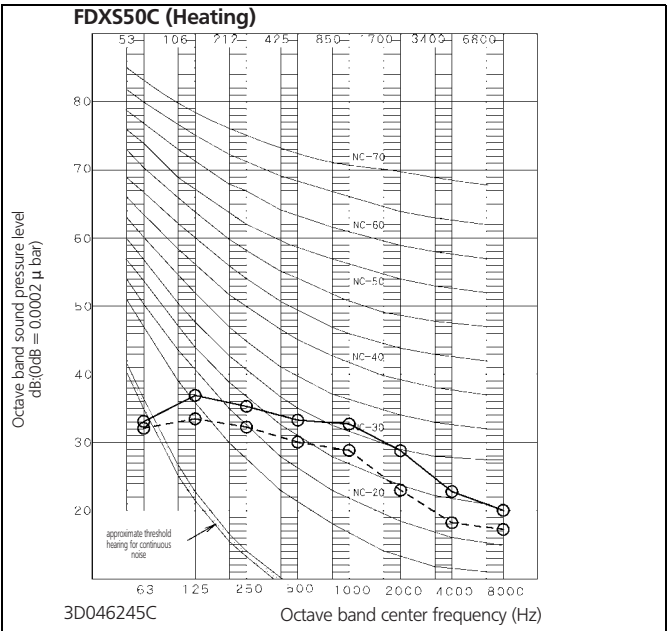
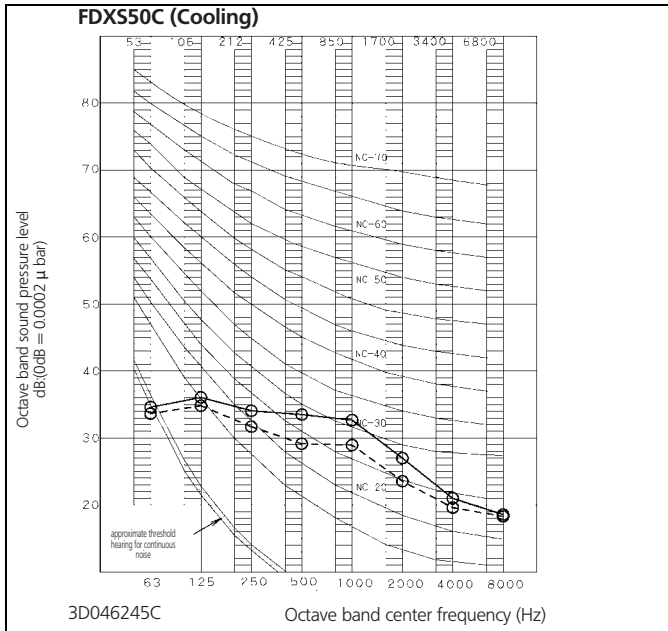
- 1 Size: length 60 x width 125.
- 2 Nameplate material: wood free tack paper
- 3 Coat the reverse side with pressure sensitive adhesive
- 4 Refer to purchasing specification AS303002, unless otherwise specified.
- 5 This drawing was drawn on CAD system.
- 6 Make a slit on separate liner in vertical direction

3D045012G

6 Sound data

6 - 1 Sound pressure spectrum

6



NOTES

- 1 Operation noise differs with operation and ambient conditions.
- 2 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

Legend

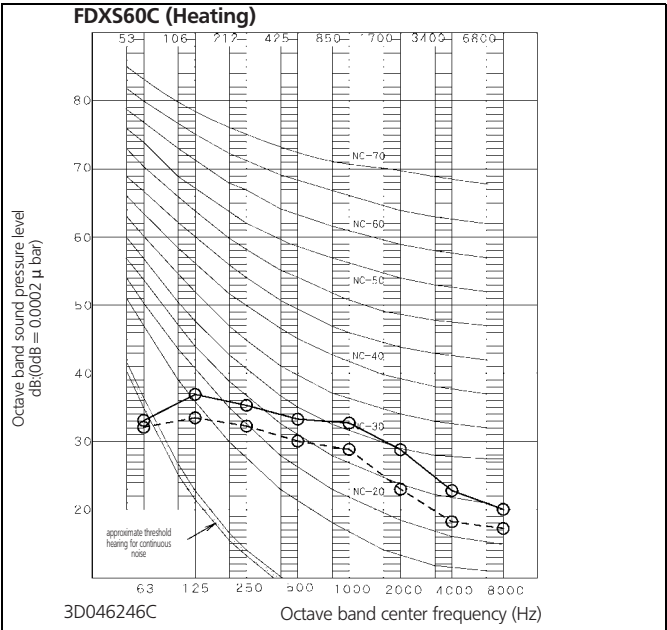
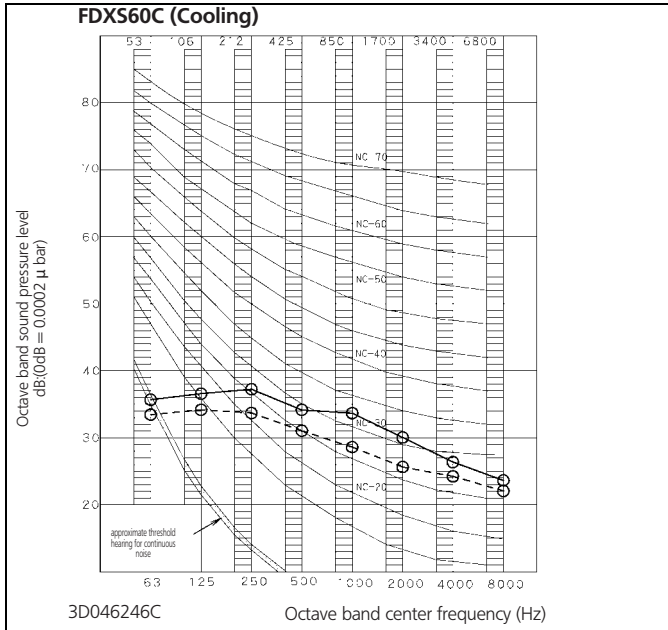
- (H) 230V/50Hz, 220V/60Hz
- - ○ (L) 230V/50Hz, 220V/60Hz

NOTES

- 1 Operation noise differs with operation and ambient conditions.
- 2 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

Legend

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



NOTES

- 1 Operation noise differs with operation and ambient conditions.
- 2 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

Legend

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

NOTES

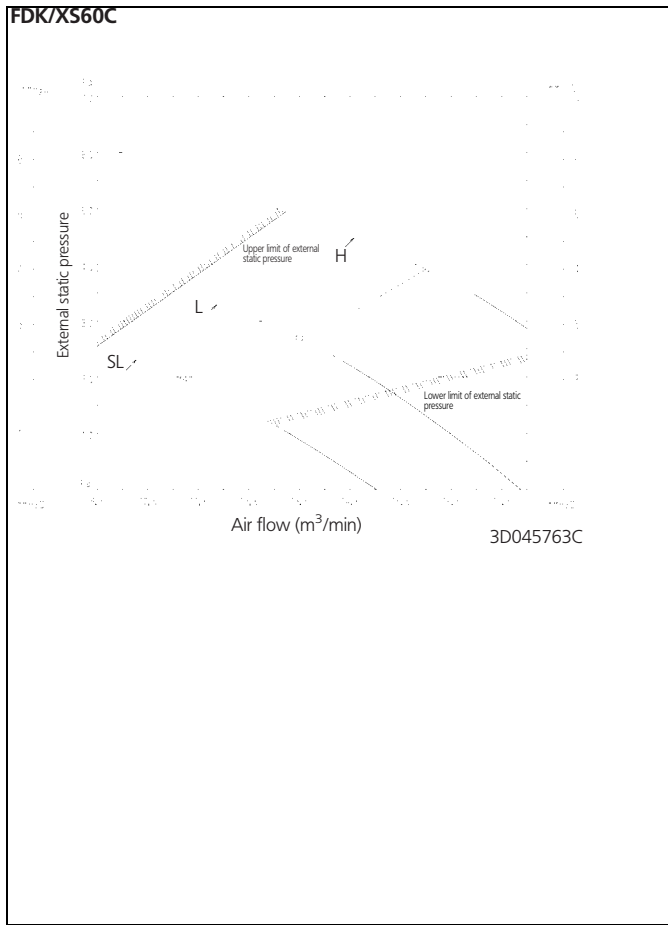
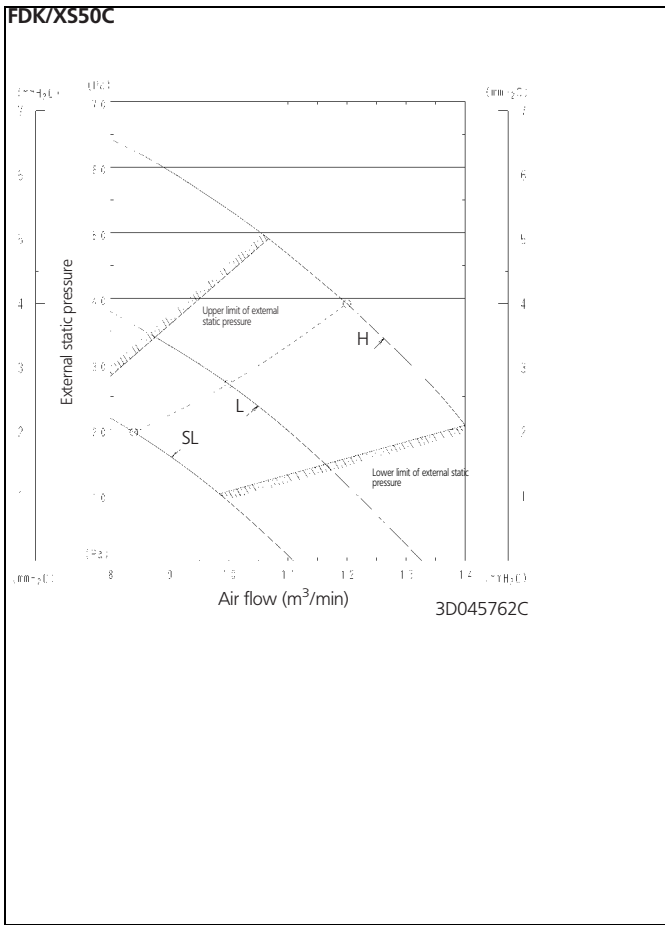
- 1 Operation noise differs with operation and ambient conditions.
- 2 The operating sound is based on the rear side suction inlet, and the external static pressure 40Pa.

Legend

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

7 Fan characteristics

7



Split - Sky Air

The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V..



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.



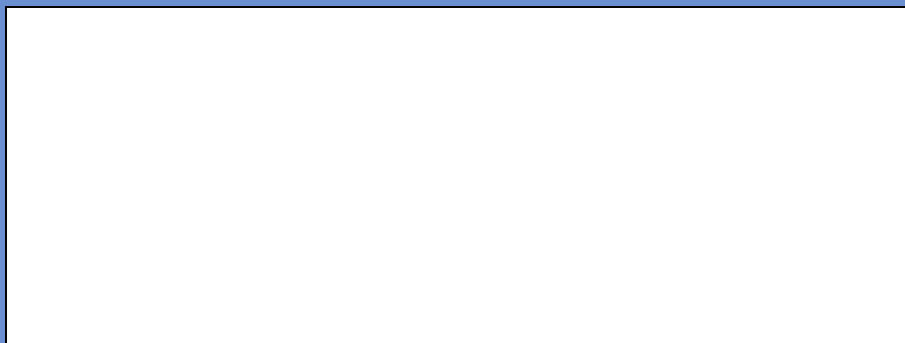
Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

DAIKIN EUROPE N.V.

Zandvoordestraat 300
B-8400 Ostend - Belgium
www.daikineurope.com



EEDE06-1/3