DAIKIN

Air Conditioning

Technical Data

Wall mounted unit



EEDEN15-100

FTXM-K

TABLE OF CONTENTS

FTXM-K

1 Features 2

2 Specifications 3
Technical Specifications 3

3 Options 5

4 Dimensional drawings 6

5 Centre of gravity 8

6 Piping diagrams 10

7 Wiring diagrams 13
Wiring Diagrams - Single Phase 13

8 Sound data 14
Sound Pressure Spectrum 14

1 Features

Discreet, modern design for optimal efficiency and comfort thanks to 2 area intelligent eye

- 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
- Discreet, modern design. Its smooth curve blends beautifully with the wall resulting in an unobtrusive presence that matches all interior décors.
- High quality matt crystal white finish
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- Ideal for installation in bedrooms (20,25 class) and larger or irregular shaped living areas (35,42,50 class)
- 2-area intelligent eye: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (35,42,50 class)
- New remote control design, also in high quality matt white finish to give a perfect match with the indoor unit
- Energy saving during standby mode: reduces current consumption by about 80% when operating In standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Online controller (optional): control your indoor from any location with an app, via your local network or internet




Econo mode


2 area intelligent eye


Energy saving during standby mode


Night set mode


Fan only


Comfort mode


Powerful mode



Auto cooling-heating changeover


Whisper quiet


Indoor unit silent operation



3-D air flow


Vertical auto swing


Horizontal auto swing



Auto fan speed



Dry programme


Titanium apatite photocatalytic air purification filter



Weekly timer



24 hour timer


Infrared remote control


Wired remote control


Centralised control


Online controller via app



Auto-restart


Self diagnosis

2 Specifications

2-1 Technical Specifications					FTXM20K	FTXM25K	FTXM35K	FTXM42K	FTXM50K
Power input - 50Hz	Cooling	Nom.		kW	0.040		0.026	0.024	0.026
	Heating	Nom.		kW	0.040		0.028	0.030	0.032
Casing	Colour				White				
Dimensions	Unit	Height/Width/ Depth		mm	289/780/215		298/900/215		
	Packed unit	Height/Width/ Depth		mm	274/850/346		290/977/371		
Weight	Unit			kg	8		11		
	Packed unit			kg	12		15		
Packing	Weight			kg	4				
Heat exchanger	Length			mm	610		665		
	Rows	Quantity			2				
	Fin pitch			mm	1.4				
	Stages	Quantity			14		18		
	Tube type				ø7 Hi-XA		Ø6,35 Hi-XB		
	Fin	Type			ML fin (Multi louver)		Multi slit fin		
Heat exchanger 2	Length			mm	-		660		
	Rows	Quantity			-		1		
	Fin pitch			mm	-		1.6		
	Stages	Quantity			-		8		
Air filter	Type				Removable / washable / mildew proof				
Fan	Type				Cross flow fan				
	Air flow rate	Cooling	High	m³/min	8.8	9.1	11.2		11.9
				cfm	311	321	395		420
			Nom.	m³/min	6.7	7.0	8.5	9.1	9.6
				cfm	237	247	300	321	339
			Low	m³/min	4.7	5.0	5.8	7.0	7.4
				cfm	166	177	205	247	261
			Silent operation	m³/min	3.9		4.1		4.5
				cfm	138		145		159
		Heating	High	m³/min	9.5	10.0	12.1	12.4	13.3
				cfm	335	353	427	438	470
			Nom.	m³/min	7.8	8.0	9.3	10.0	10.8
				cfm	275	282	328	353	381
			Low	m³/min	6.0		6.5	7.8	8.4
				cfm	212		230	275	297
			Silent operation	m³/min	4.3		4.2	5.2	5.5
				cfm	152		148	184	194
Fan motor	Model				MM6C02J2VA		KFD-280-23-8C		
	Speed	Steps			5 + silent, + auto				
		Cooling	High/ Medium/Low/ Silent operation	rpm	1,330/1,050/780/ 670	1,370/1,090/820/ 670	1,330/1,050/780/ 600	1,330/1,110/900/ 600	1,400/1,170/940/ 650
		Heating	High/ Medium/Low/ Silent operation	rpm	1,360/1,140/920/ 690	1,410/1,160/920/ 690	1,420/1,130/850/ 610	1,450/1,210/980/ 720	1,540/1,290/ 1,040/750
	Output	Rated		W	16		23		
Sound power level	Cooling			dBA	56	57	59		60
	Heating			dBA	56	57	59		60

2 Specifications

2-1 Technical Specifications				FTXM20K	FTXM25K	FTXM35K	FTXM42K	FTXM50K
Sound pressure level	Cooling	High/Nom./Low/ Silent operation	dBA	40/32/24/19	41/33/25/19	45/37/29/19	45/39/33/21	46/40/34/23
	Heating	Super high/High/ Nom./Low/Silent operation	dBA	-/40/34/27/19	-/41/34/27/19	-/45/39/29/19	-/45/39/33/22	-/47/40/34/24
Control systems	Infrared remote control			ARC466A6		ARC466A9		
Piping connections	Liquid	OD		6.35				
	Gas	OD		9.5			12.7	
	Drain			18				
	Heat insulation			Both liquid and gas pipes				
Temperature control				Microcomputer control				
Air direction control				Right, Left, Horizontal, Downward				

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Infrared remote control; Quantity : 1;

Standard Accessories : Batteries; Quantity : 2;

Standard Accessories : Mounting plate; Quantity : 1;

Standard Accessories : Indoor unit fixing screws; Quantity : 2;

Standard Accessories : Titanium apatite photocatalytic air purification filter; Quantity : 2;

Standard Accessories : Remote control holder; Quantity : 1;

3 Options

3 - 1 Options

FTXM-K

Indoor Units - Control systems

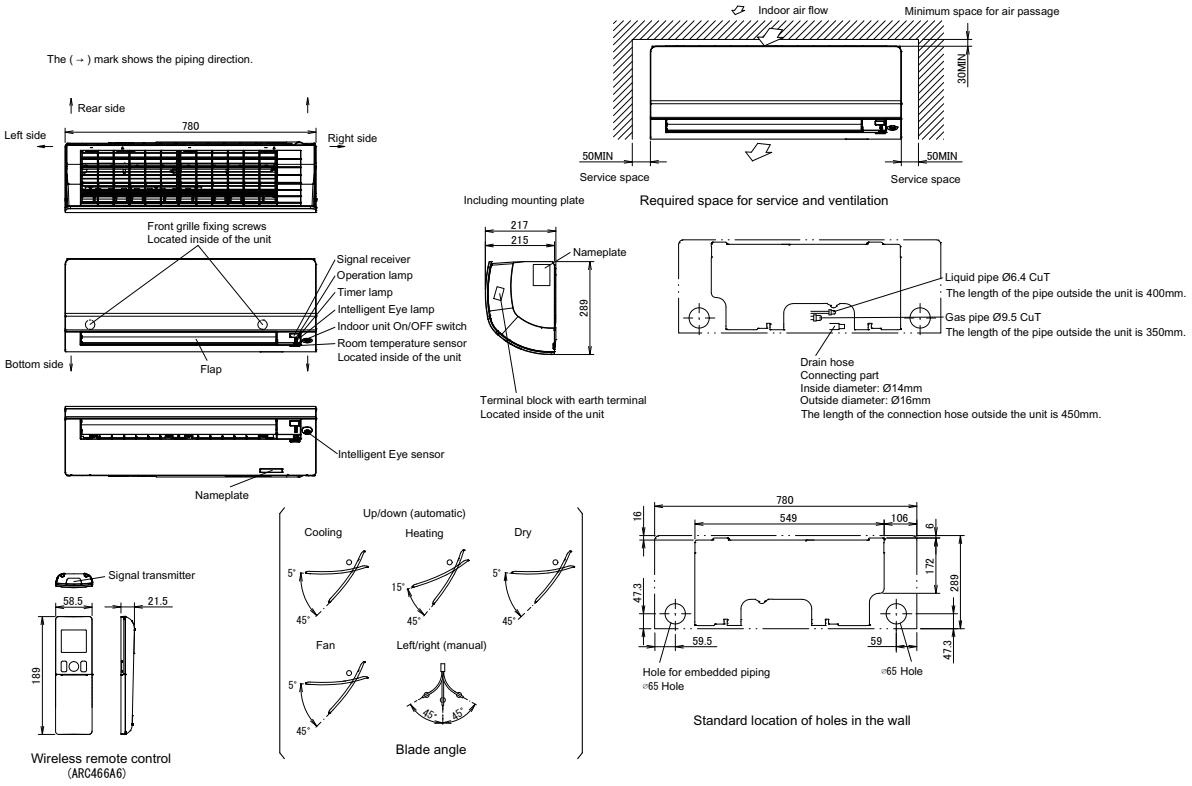
		FTXM20~25K	FTXM35~50K
Wired remote control		BRC944 (3) (4) BRC073 (3) (4)	BRC944 (3) BRC073 (3)
Cord for wired remote control	3m	BRCW901A03	
	8m	BRCW901A08	
Wiring adapter normal open contact / normal open pulse contact		KRP413A1S (1) (4)	KRP413A1S (1)
Centralised control board	Up to 5 rooms	KRC72 (2)	
Anti-theft protection for remote control		KKF910A4	
Interface adapter for wired remote control		KRP980A1	-
Interface adapter for DIII-net		KRP928A2S (4)	KRP928A2S
Online controller		BRP069A43	BRP069A42
Modbus gateway		RTD-RA (4)	RTD-RA
KNX gateway		KLIC-DD (4)	KLIC-DD

(1) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally.
(2) Wiring adapter is also required for each indoor unit.
(3) Cord for wired remote control BRCW901A03 or BRCW901A08 required.
(4) Interface adapter KRP980A1, KRP067A41 or KRP980B2 required.

4 Dimensional drawings

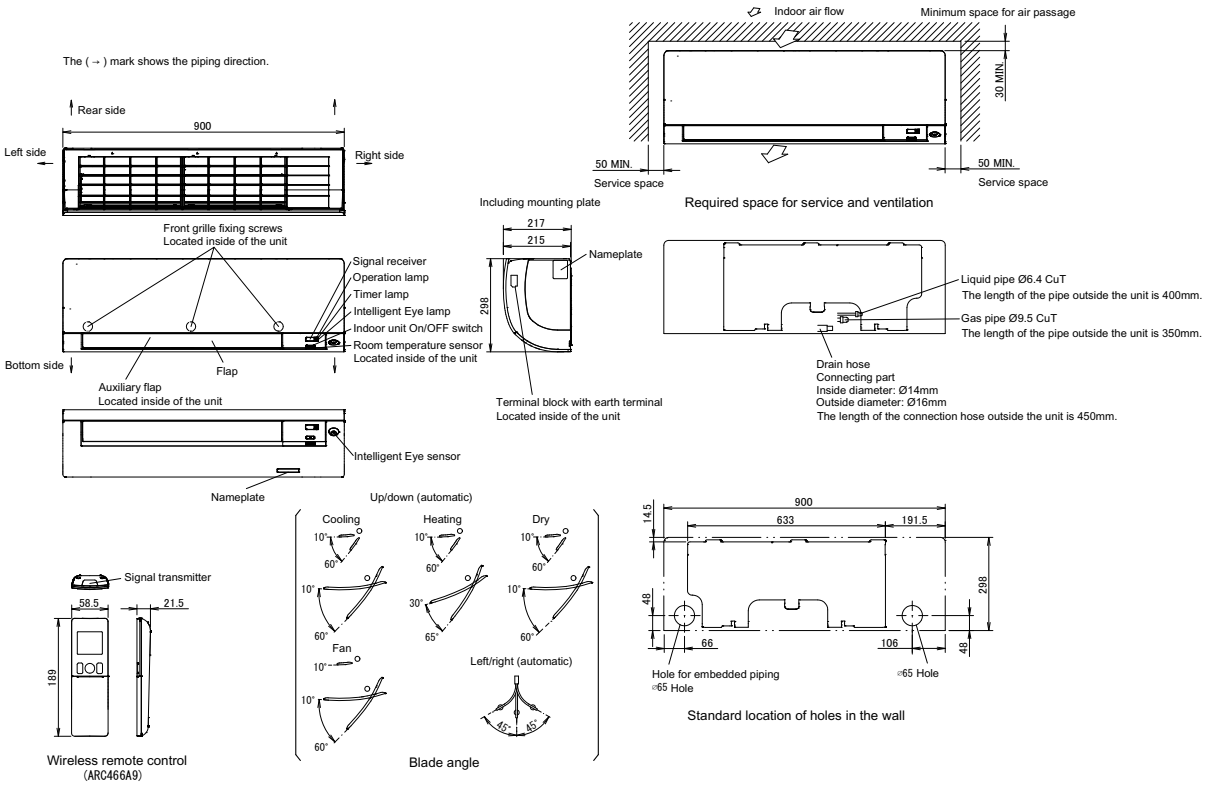
4 - 1 Dimensional Drawings

FTXM20~25K



3D092183

FTXM35K

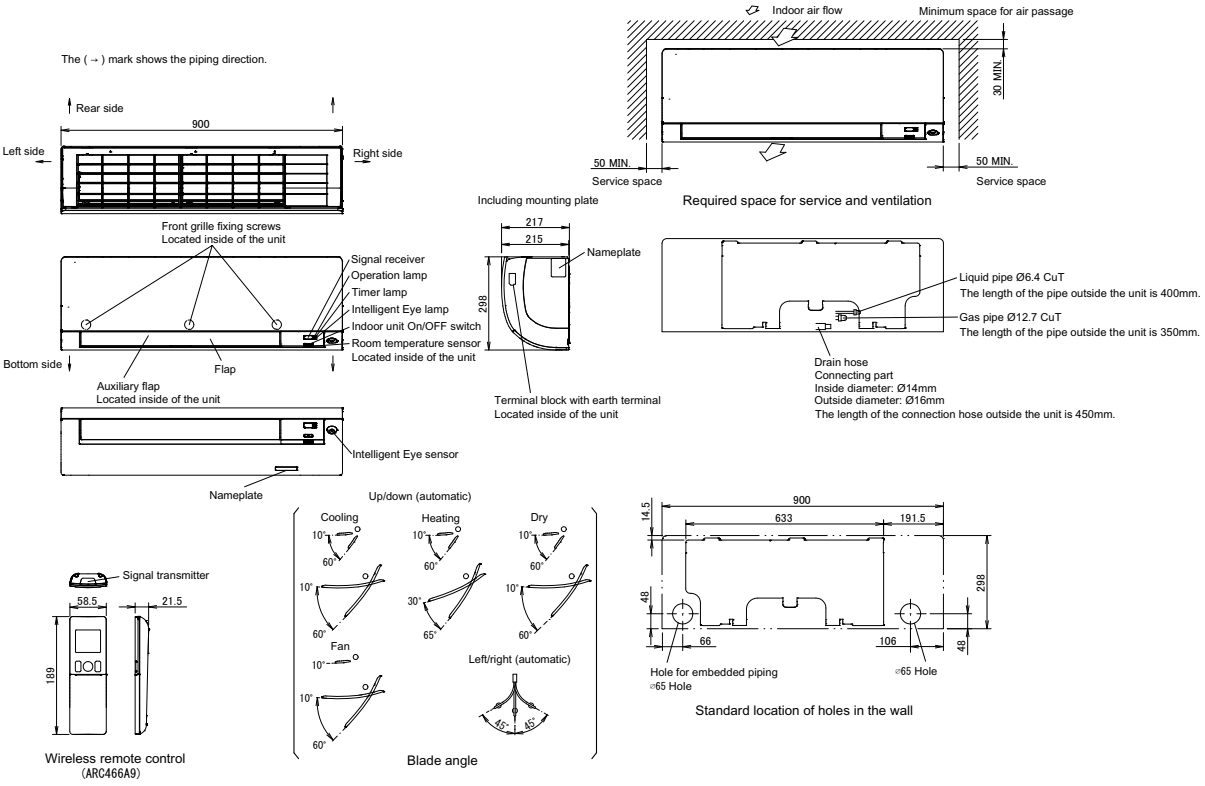


3D092184

4 Dimensional drawings

4 - 1 Dimensional Drawings

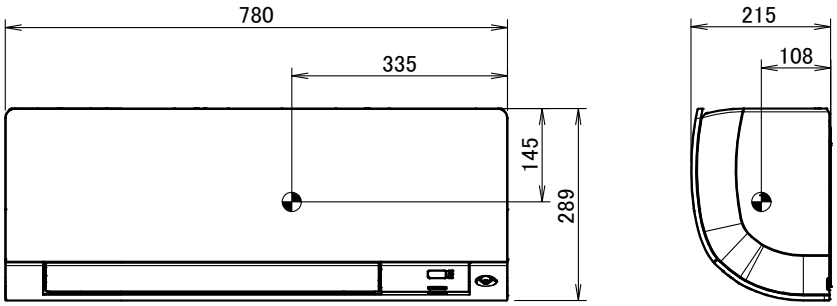
FTXM42-50K



5 Centre of gravity

5 - 1 Centre of Gravity

FTXM20-25K

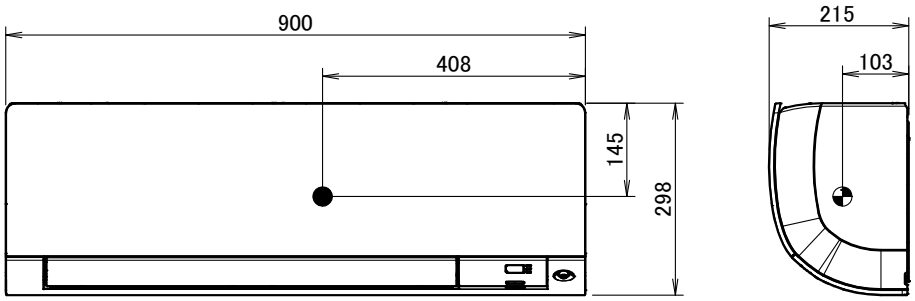


4D092125

5 Centre of gravity

5 - 1 Centre of Gravity

FTXM35-50K

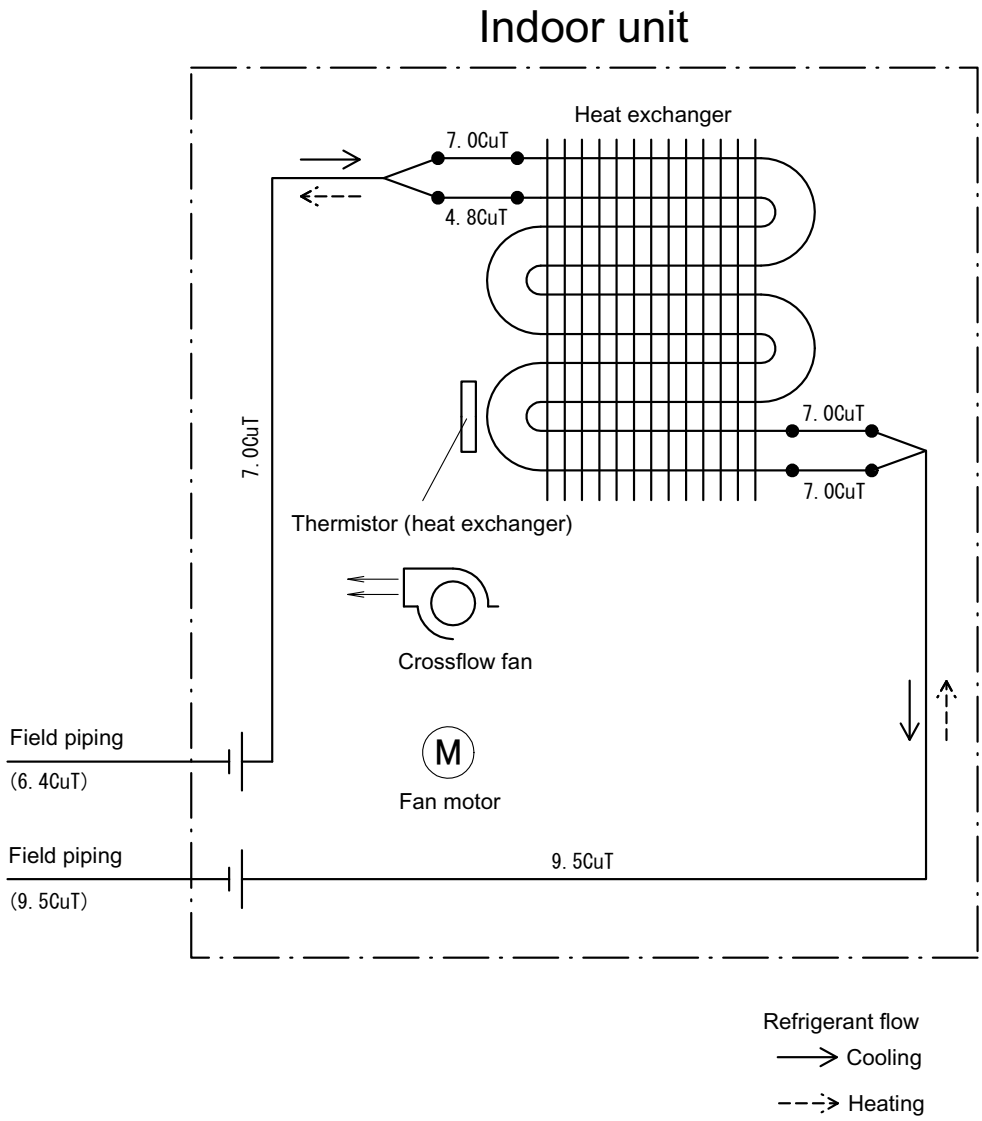


4D092126

6 Piping diagrams

6 - 1 Piping Diagrams

FTXM20-25K

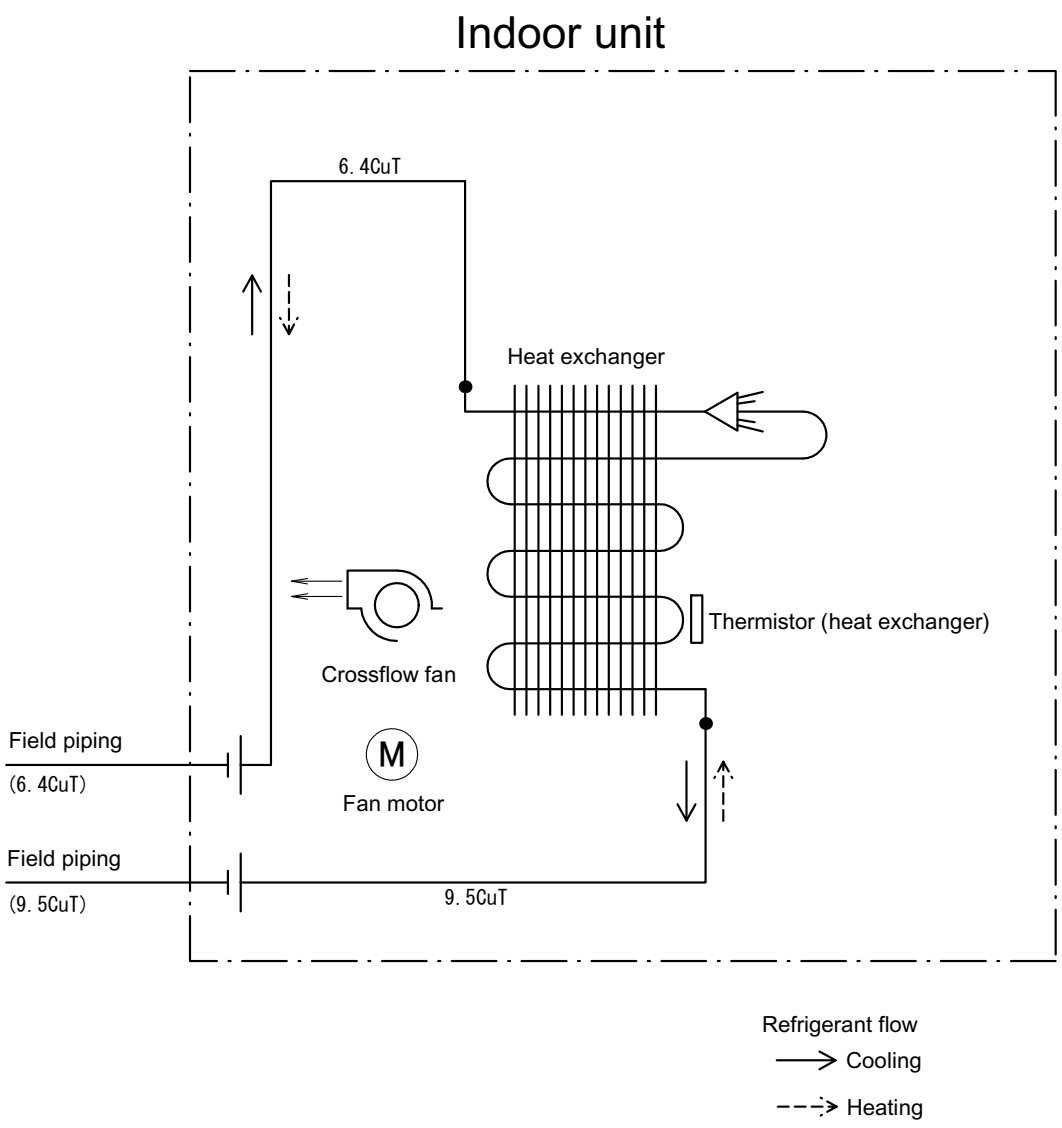


4D092170

6 Piping diagrams

6 - 1 Piping Diagrams

FTXM35K

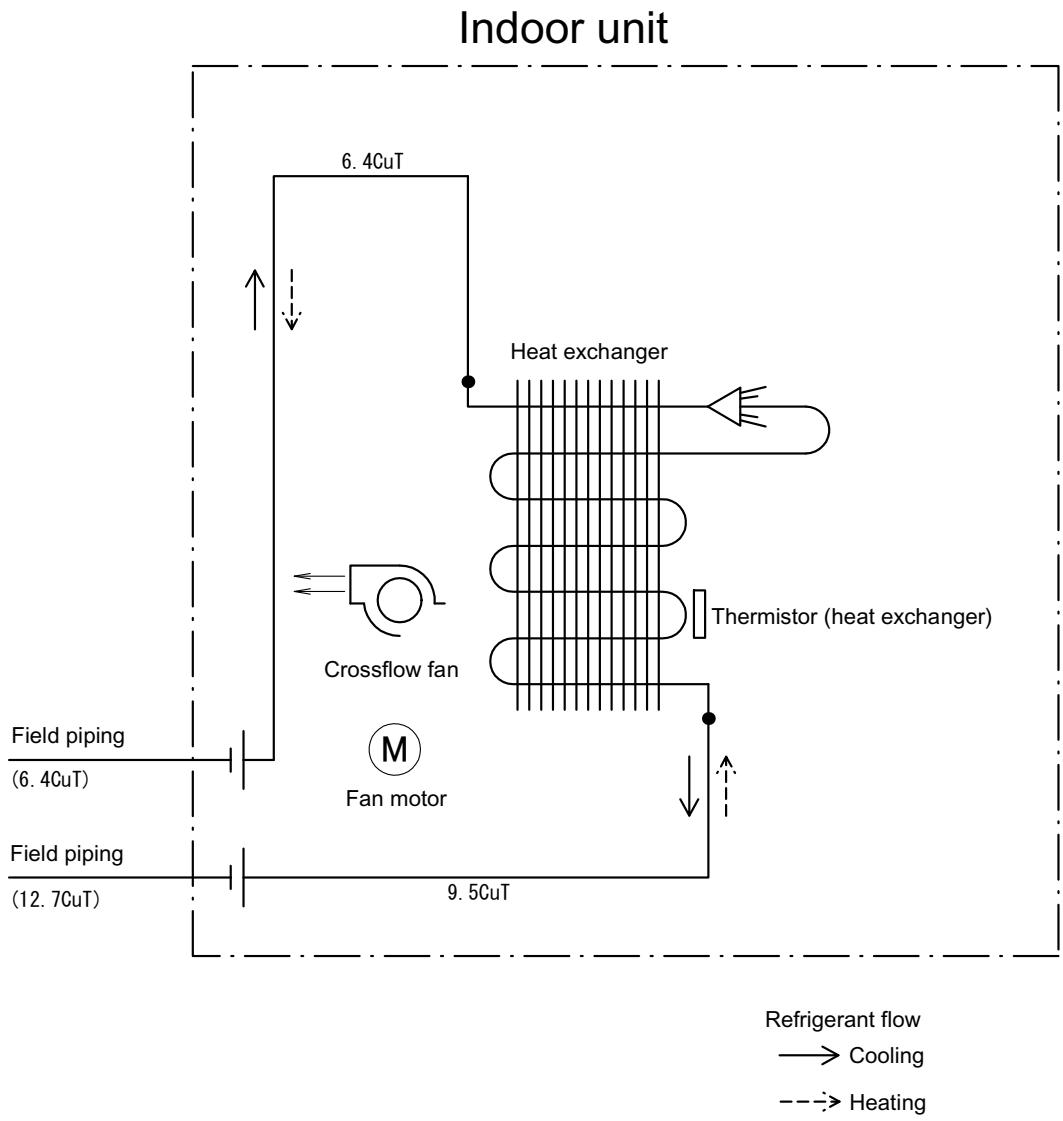


4D092169

6 Piping diagrams

6 - 1 Piping Diagrams

FTXM42-50K

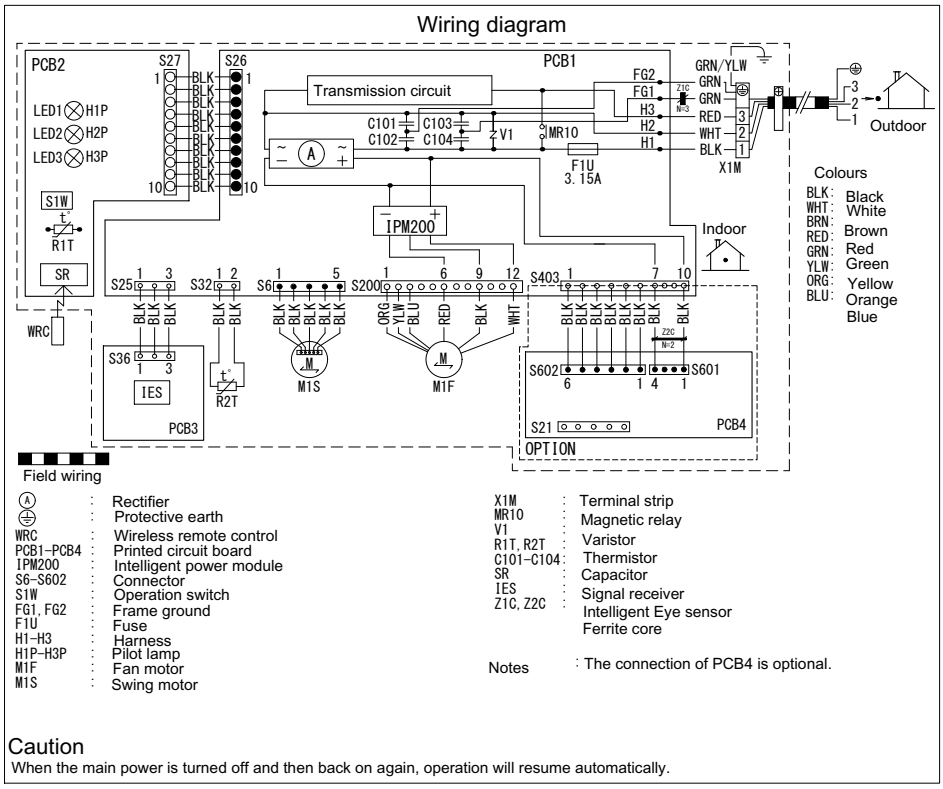


4D092168

7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FTXM20-25K



Ⓐ	Rectifier	X1M	Terminal strip
⏚	Protective earth	MR10	Magnetic relay
WRC	Wireless remote control	V1	Varistor
PCB1-PCB4	Printed circuit board	R1T, R2T	Thermistor
IPM200	Intelligent power module	C101-C104	Capacitor
S6-S602	Connector	SR	Signal receiver
S1W	Operation switch	IES	Intelligent Eye sensor
FG1, FG2	Frame ground	Z1C, Z2C	Ferrite core
F1U	Fuse		
H1-H3	Harness	Notes	: The connection of PCB4 is optional.
H1P-H3P	Pilot lamp		
M1F	Fan motor		
M1S	Swing motor		

Caution

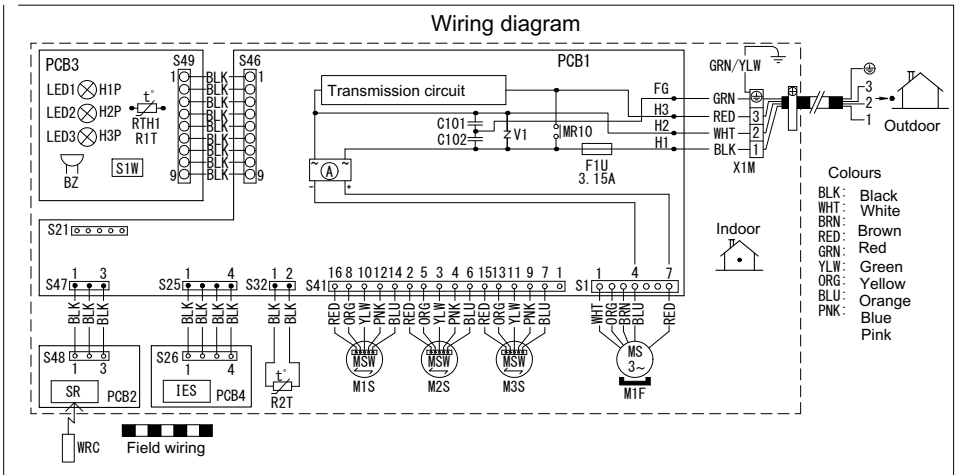
When the main power is turned off and then back on again, operation will resume automatically.

Notes

1. Size: length 100 X width 120.

3D093446A

FTXM35-50K



Ⓐ	Rectifier	X1M	Terminal strip
⏚	Protective earth	MR10	Magnetic relay
WRC	Wireless remote control	V1	Varistor
PCB1-PCB4	Printed circuit board	R1T, R2T	Thermistor
BZ	Buzzer	C101, C102	Capacitor
S1-S49	Connector	SR	Signal receiver
S1W	Operation switch	IES	Intelligent Eye sensor
FG	Frame ground		
F1U	Fuse		
H1-H3	Harness		
H1P-H3P	Pilot lamp		
M1F	Fan motor		
M1S-M3S	Swing motor		

Caution

When the main power is turned off and then back on again, operation will resume automatically.

Notes

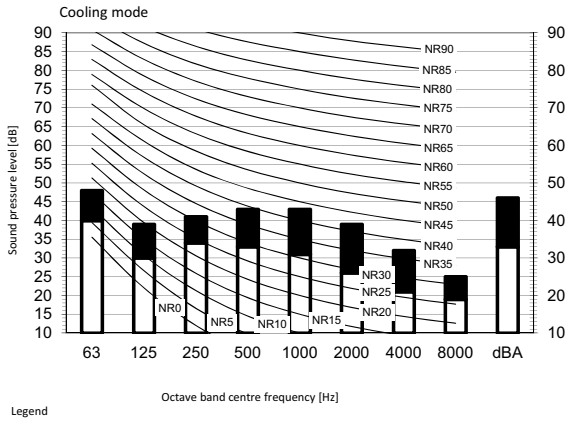
1. Size: length 100 X width 120.

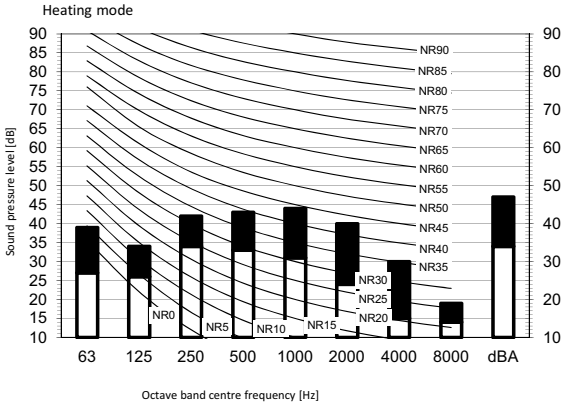
3D093481A

8 Sound data

8 - 1 Sound Pressure Spectrum

FTXM20K





Legend

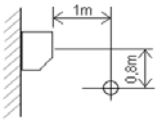
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling	Total dB	
A	B	C
dBA	40	24

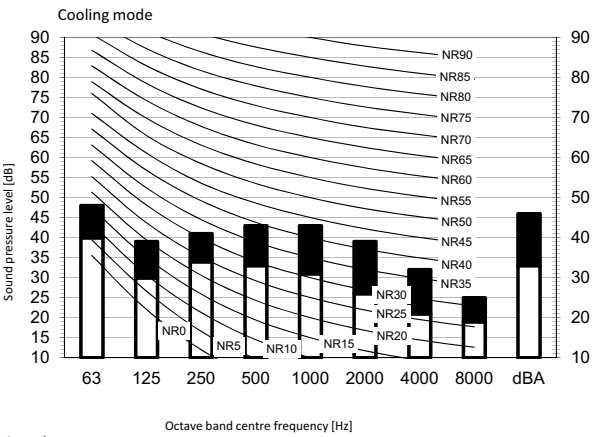
Heating	Total dB	
A	B	B
dBA	40	27

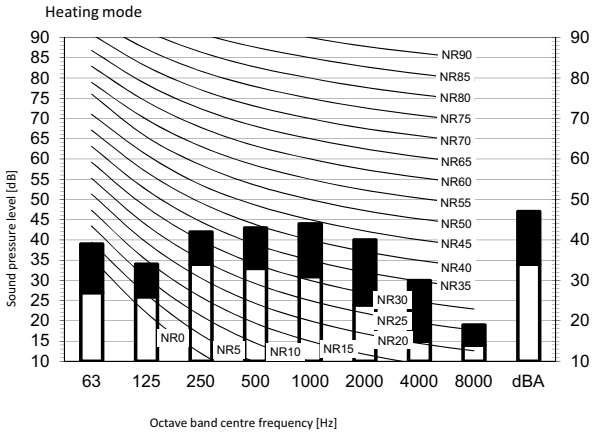
Notes

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

3D092363A

FTXM25K





Legend

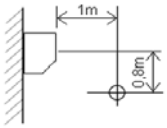
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling	Total dB	
A	B	C
dBA	41	25

Heating	Total dB	
A	B	B
dBA	41	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

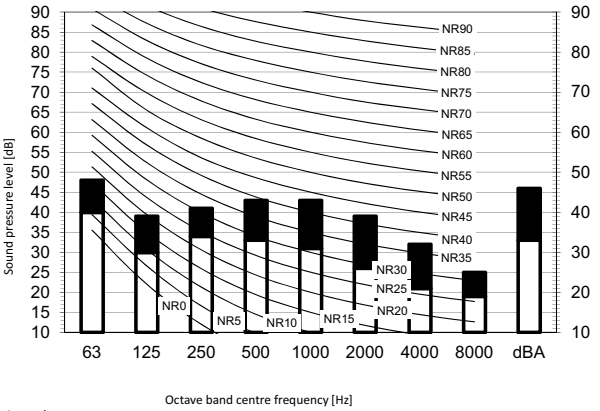
3D092364A

8 Sound data

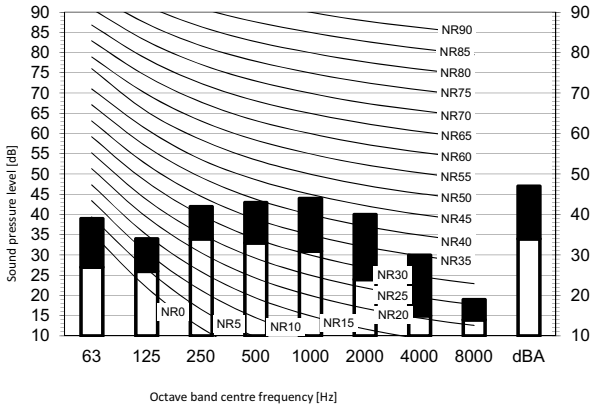
8 - 1 Sound Pressure Spectrum

FTXM35K

Cooling mode



Heating mode

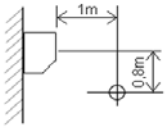


Legend

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

A Scale
B High-tap
C Low-tap

Location of microphone



Cooling	Total dB	
A	B	C
dBA	45	29

Heating	Total dB	
A	B	B
dBA	45	29

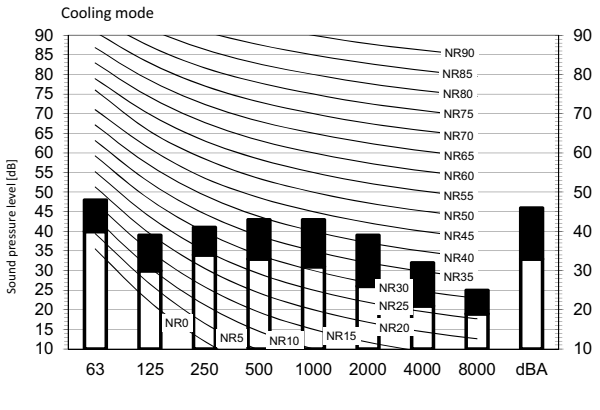
Notes

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

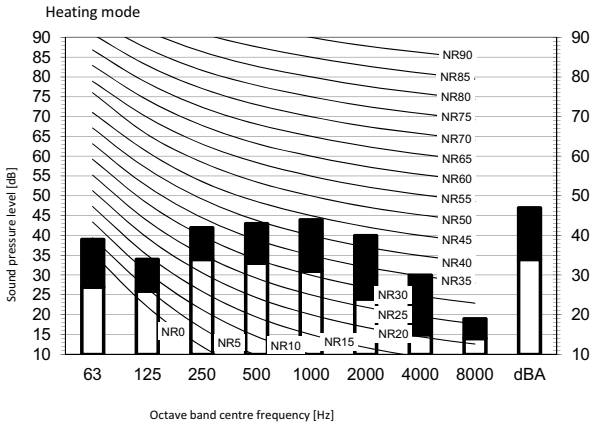
3D092365A

FTXM42K

Cooling mode



Heating mode

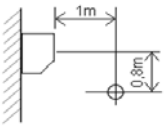


Legend

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

A Scale
B High-tap
C Low-tap

Location of microphone



Cooling	Total dB	
A	B	C
dBA	45	33

Heating	Total dB	
A	B	B
dBA	45	33

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

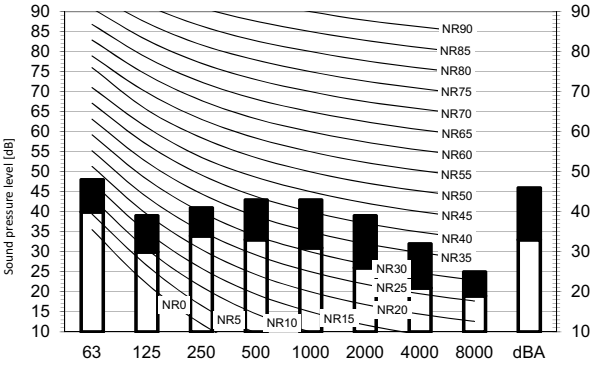
3D092366

8 Sound data

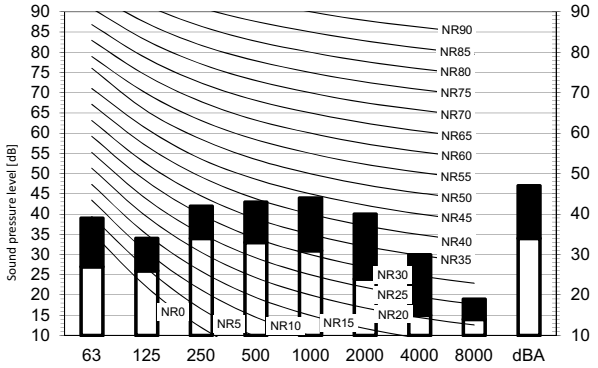
8 - 1 Sound Pressure Spectrum

FTXM50K

Cooling mode



Heating mode



Legend

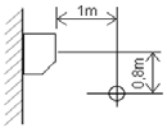
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling	Total dB	
A	B	C
dBA	46	34

Heating	Total dB	
A	B	B
dBA	47	34

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

3D092420

Daikin Europe N.V. participates in the Eurovent Certification programme for Liquid Chilling Packages (LCP), Air handling units (AHU), Fan coil units (FCU) and variable refrigerant flow systems (VRF) Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

The present leaflet 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 leaflet 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 leaflet. All content is copyrighted by Daikin Europe N.V.

BARCODE

Daikin products are distributed by:

DAIKIN EUROPE N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende

EEDEN15-100 03/15 Copyright Daikin
The present publication supersedes EEDEN14-100