

Ceiling suspended unit Air Conditioning Technical Data FXHA-A



FXHA32AVEB8
FXHA50AVEB8
FXHA63AVEB8
FXHA100AVEB8

TABLE OF CONTENTS

FXHA-A

1	Features	4
	FXHA-A	4
2	Specifications	5
3	Safety device settings	7
4	Options	8
5	Capacity tables	9
	Cooling/Heating Capacity Tables	9
6	Dimensional drawings	10
7	Centre of gravity	12
8	Piping diagrams	13
9	Wiring diagrams	14
	Wiring Diagrams - Single Phase	14
10	Sound data	15
	Sound Power Spectrum	15
	Sound Pressure Spectrum	17
11	Air flow patterns	19
	Air flow pattern - Cooling and Heating	19
12	Installation	21
	Installation Method	21

1 Features

1 - 1 FXHA-A

For wide rooms with no false ceilings nor free floor space

1

- › Optimised design for R-32 refrigerant
- › Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- › Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.



Onecta app
(optional)
(optional)



Home leave
operation



Fan only



Auto cooling-
heating
changeover



Vertical auto
swing



Fan speed
steps
(3 steps)



Dry
programme



Air filter
(pre filter)



Weekly timer
(optional)



Infrared
remote control
(optional
- must be
combined
with Madoka
wired remote
controller)



Wired remote
control
(required
option)



Centralised
control
(optional)



Auto-restart



Self diagnosis



Multi tenant
(optional)



Drain pump
kit
(optional)

2 Specifications

2 - 1 Specifications

Technical specifications					FXHA32A	FXHA50A	FXHA63A	FXHA100A				
Cooling capacity	Sensible capacity	At high fan speed	kW	2.5		3.8		4.9		8.0		
	Nom.		kW	3.6		5.6		7.1		11.2		
	Sensible capacity	At medium fan speed	kW	2.2		3.2		4.0		6.2		
Heating capacity	Nom.		kW	4.0		6.3		8.0		12.5		
Cooling capacity	Sensible capacity	At low fan speed	kW	1.9		2.7		3.3		4.1		
		Latent capacity	At high fan speed	kW	1.1		1.8		2.2		3.2	
		At medium fan speed	kW	0.9		1.5		1.8		2.5		
		At low fan speed	kW	0.8		1.3		1.4		1.7		
	Total capacity	At high fan speed	kW	3.6		5.6		7.1		11.2		
		At medium fan speed	kW	3.1		4.7		5.8		8.7		
		At low fan speed	kW	2.7		4.0		4.7		5.8		
Heating capacity	Total capacity	At high fan speed	kW	4.0		6.3		8.0		12.5		
		At medium fan speed	kW	3.4		5.1		6.3		9.3		
		At low fan speed	kW	2.9		4.1		5.0		6.0		
Power input - 50Hz	Cooling	At high fan speed	kW	0.033		0.037		0.051		0.086		
		At medium fan speed	kW	0.026		0.028		0.036		0.055		
		At low fan speed	kW	0.021		0.024		0.027		0.038		
	Heating	At high fan speed	kW	0.033		0.037		0.051		0.086		
		At medium fan speed	kW	0.026		0.028		0.036		0.055		
		At low fan speed	kW	0.021		0.024		0.027		0.038		
Power input - 60Hz	Cooling	At high fan speed	kW	0.033		0.037		0.051		0.086		
	Heating	At high fan speed	kW	0.033		0.037		0.051		0.086		
Dimensions	Unit	Height	mm					235				
		Width	mm	960				1,270		1,590		
		Depth	mm					690				
	Packed unit	Height	mm	336				334				
		Width	mm	1,060				1,388		1,708		
		Depth	mm	824				869				
Weight	Unit		kg	28		36				43		
	Packed unit		kg	34		46				55		
Casing	Colour				Fresh White							
	Material				Resin, sheet metal							
Heat exchanger	Inside length		mm	722		1,032				1,352		
	Rows	Quantity				2		3				
	Fin pitch			mm				1.50				
	Passes	Quantity				4		5		10		
Heat exchanger	Face area		m²	0.213		0.303				0.398		
	Stages	Quantity				14						
	Empty tubeplate hole	Quantity				0						
	Tube type											
	Fin	Type										
	Fan	Type				Sirocco fan						
Quantity					2		3		4			
Air flow rate - 50Hz		Cooling	At high fan speed	m³/min	12.5		16.0		17.5		27.0	
			At medium fan speed	m³/min	11.0		14.0		15.0		22.0	
			At low fan speed	m³/min	10.0		12.5		13.0		19.0	
		Heating	At high fan speed	m³/min	12.5		16.0		17.5		27.0	
			At medium fan speed	m³/min	11.0		14.0		15.0		22.0	
			At low fan speed	m³/min	10.0		12.5		13.0		19.0	
Air flow rate - 60Hz		Cooling	At high fan speed	cfm	441		565		618		953	
			At medium fan speed	cfm	388		494		530		777	
			At low fan speed	cfm	353		441		459		671	
		Heating	At high fan speed	cfm	441		565		618		953	
			At medium fan speed	cfm	388		494		530		777	
			At low fan speed	cfm	353		441		459		671	
Sound power level		Cooling	At high fan speed	dBA	54.0		54.0		55.0		62.0	
	At medium fan speed		dBA	52.0		52.0		53.0		55.0		
	At low fan speed		dBA	49.0		50.0		50.0		52.0		
	Heating	At high fan speed	dBA	54.0		54.0		55.0		62.0		
		At medium fan speed	dBA	52.0		52.0		53.0		55.0		
Sound pressure level	Cooling	At high fan speed	dBA	36.0		36.5		37.0		44.0		
		At medium fan speed	dBA	34.0		34.5		35.0		37.0		
		At low fan speed	dBA	31.0		33.0		34.0		34.0		
	Heating	At high fan speed	dBA	36.0		36.5		37.0		44.0		
		At medium fan speed	dBA	34.0		34.5		35.0		37.0		
		At low fan speed	dBA	31.0		33.0		34.0		34.0		

2 Specifications

2 - 1 Specifications

2

Technical specifications				FXHA32A	FXHA50A	FXHA63A	FXHA100A
Fan motor	Quantity			1			
	Model			KFD-280-87-8E	KFD-280-117-8E		EQDW01HDK
	Speed	Steps		3			
	Output	Max	W	87	117		150
Refrigerant	Type			R-32			
	GWP			675			
Piping connections	Liquid	Type	Flare connection				
		OD	mm	6.35		9.52	
	Gas	Type	Flare connection				
		OD	mm	9.52	12.7		15.9
	Drain			VP20			
	Heat insulation			Foamed polystyrene / Foamed polyethylene			
	Sound absorbing insulation			Foamed polyurethane			
Air filter	Type			Resin net			
Safety devices	Item	01		PC board fuse			
		02		Fan motor overcurrent protector			
Control systems	Infrared remote control			BRC7GA56 / BRC7GA53-9			
	Wired remote control			BRC1H52W/S/K / BRC1H82W/S/K			

Standard accessories: Thermal insulation tube;Quantity: 2;

Standard accessories: Sealing material;Quantity: 6;

Standard accessories: Wire clamp material;Quantity: 7;

Standard accessories: Resin bushing;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

Standard accessories: Hose band;Quantity: 1;

Standard accessories: Screws;Quantity: 2;

Standard accessories: Washer;Quantity: 8;

Standard accessories: Wiring fixture;Quantity: 2;

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Installation and operation manual;Quantity: 1;

Standard accessories: Paper pattern for installation;Quantity: 1;

Electrical specifications			FXHA32A	FXHA50A	FXHA63A	FXHA100A
Power supply	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			
Current - 50Hz	Minimum circuit amps (MCA)	A	0.5	0.6	0.7	1.3
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.4	0.5	0.6	1.2
Current - 60Hz	Minimum circuit amps (MCA)	A	0.5	0.6	0.7	1.3
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.4	0.5	0.6	1.2

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

The sound power level is an absolute value indicating the power which a sound source generates. |

Instead of a fuse, use a circuit breaker |

Select wire size based on the value of MCA |

Contains fluorinated greenhouse gases

3 Safety device settings

3 - 1 Safety Device Settings

FXHA-A

Safety devices		FXHA32AVEB8	FXHA50AVEB8
PCB fuse		250V, 3.15A	250V, 3.15A
Fan motor fuse (on wire)		500V, 4A	500V, 4A
Fan motor overcurrent protection	Nominal	1.65A	1.65A
Fan motor thermal protector	Maximum	125°C	125°C

Safety devices		FXHA63AVEB8	FXHA100AVEB8
PCB fuse		250V, 3.15A	250V, 3.15A
Fan motor fuse (on wire)		500V, 4A	---
Fan motor overcurrent protection	Nominal	1.65A	2.3A
Fan motor thermal protector	Maximum	125°C	125°C

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4 Options

4 - 1 Options

FXHA-A

Option kit		Product name	FXHA32A	FXHA50A	FXHA63A	FXHA100A
Wireless remote control	Heat pump	BRC7GA53-9 (2)	✓	✓	✓	✓
	Cooling only	BRC7GA56 (2)	✓	✓	✓	✓
Wired remote control		BRC1H52W/S/K (1)	✓	✓	✓	✓
		BRC1H82W/S/K (1)	✓	✓	✓	✓
Wiring adaptor for electrical appendices -1-		KRP1BA58	✓	✓	✓	✓
Wiring adaptor for electrical appendices -2-		KRP4A52 (3)	✓	✓	✓	✓
Remote sensor		KRCS01-6B	✓	✓	✓	✓
		KRCS01-8B	✓	✓	✓	✓
Central remote control		DCS302CA51 (2)	✓	✓	✓	✓
		DCS302CA61 (2)	✓	✓	✓	✓
Unified ON/OFF controller		DCS301BA51 (2)	✓	✓	✓	✓
		DCS301BA61 (2)	✓	✓	✓	✓
Electrical box with earth terminal (-2- blocks)		KJB212AA	✓	✓	✓	✓
Electrical box with earth terminal (-3- blocks)		KJB311AA	✓	✓	✓	✓
External adaptor for outdoor unit (installation on indoor unit)		DTA104A61 (3)	✓	✓	✓	✓
iTouch Controller		DCS601C51	✓	✓	✓	✓
Digital input adaptor		BRP7A52 (2)(3)	✓	✓	✓	✓
Intelligent Touch Manager		DCM601A51	✓	✓	✓	✓
Intelligent Tablet Controller		DCC601A51	✓	✓	✓	✓
Optional output PCB		ERP01A51 (4)	✓	✓	✓	✓
WLAN adaptor for smartphones		BRP069C51 (2)	✓	✓	✓	✓
Drain pump kit		KDU50R63	✓	✓	✓	×
		KDU50R160	×	×	×	✓
Adapter for external central monitoring/control (controls 1 entire system)		KRP2A62 (3)	✓	✓	✓	✓
Installation box for adaptor PCB		KRP1D93A	✓	✓	✓	✓
Long-life replacement filter (nonwoven type)		KAF501B56	✓	×	×	×
		KAF501B80	×	✓	✓	×
		KAF501B160	×	×	×	✓
L-type piping kit		KHFP5M35	✓	×	×	×
		KHFP5N63	×	✓	✓	×
		KHFP5N160	×	×	×	✓
Installation box for adaptor PCB		KRP4B93	✓	✓	✓	✓
External wireless temperature sensor		K.RSS (5)(6)	✓	✓	✓	✓
PCB for multi-tenant indoor units		EKEWTSC-1 (7)	✓	✓	✓	✓
		DTA114A61-9 (3)(8)	✓	✓	✓	✓

Notes

- (1) Mandatory option
- (2) Only possible in combination with remote control -BRC1H52W/S/K, BRC1H82W/S/K-.
- (3) Requires installation box for adaptor PCB -KRP1D93A-.
- (4) Requires installation box for adaptor PCB -KRP1D93A / KRP4B93-.
- (5) -K.RSS- is not an official option. Sales for this option are an SBU responsibility.
- (6) This option needs to be ordered together with -EKEWTSC-1-.
- (7) -EKEWTSC-1- is a wire harness for the connection of option -K.RSS-.
- (8) -DTA114A61-9- can only be used in combination with -REMA5A7Y1B, REYA8/10/12/14/16/18/20A7Y1B-.

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5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FXHA-A

Cooling

Cooling		Indoor air temperature												Notes		
Unit size	Fan speed	14,0 [°C WB]		16,0 [°C WB]		18,0 [°C WB]		19,0 [°C WB]		20,0 [°C WB]		22,0 [°C WB]				24,0 [°C WB]
		20,0 [°C DB]		23,0 [°C DB]		26,0 [°C DB]		27,0 [°C DB]		28,0 [°C DB]		30,0 [°C DB]		32,0 [°C DB]		
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
32	H	1,9	1,7	2,6	2,0	3,2	2,4	3,6	2,5	4,0	2,6	4,8	2,9	5,6	3,1	1) TC: Total capacity [kW] SHC: [kW] H: High M: Medium L: Low 2) Outdoor temperature -35-°C DB
	M	Correction factor -0.86 × H·														
	L	Correction factor -0.75 × H·														
50	H	3,1	2,6	4,0	3,1	5,1	3,6	5,6	3,8	6,2	4,0	7,3	4,3	8,6	4,6	
	M	Correction factor -0.84 × H·														
	L	Correction factor -0.71 × H·														
63	H	4,0	3,3	5,2	4,0	6,4	4,7	7,1	4,9	7,8	5,1	9,2	5,5	10,7	5,9	
	M	Correction factor -0.82 × H·														
	L	Correction factor -0.66 × H·														
100	H	6,1	5,3	8,1	6,4	10,1	7,6	11,2	8,0	12,3	8,3	14,7	8,9	17,2	9,5	
	M	Correction factor -0.78 × H·														
	L	Correction factor -0.52 × H·														

Heating

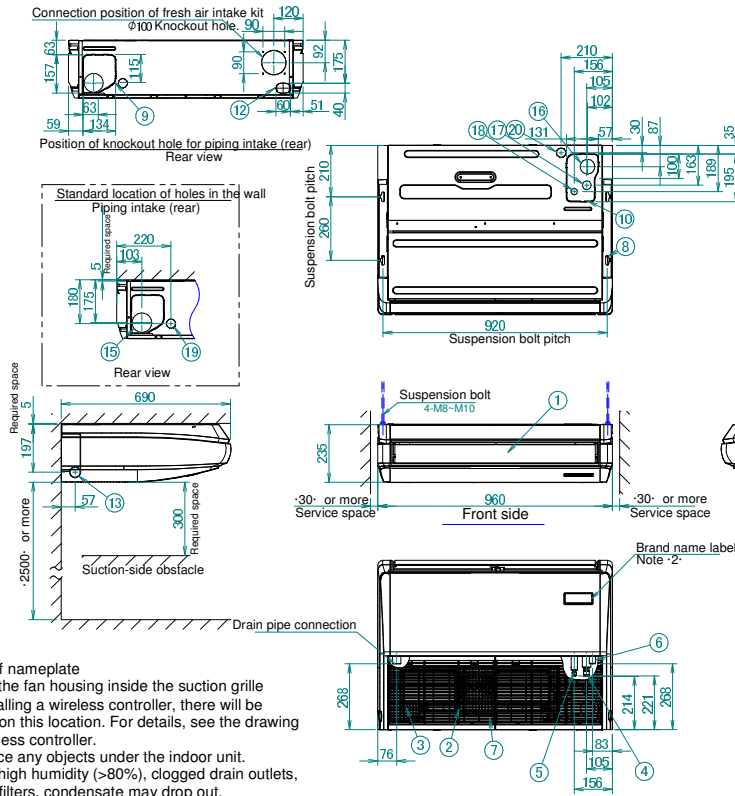
Heating		Indoor air temperature						Notes	
Unit size	Fan speed	16,0 [°C DB]	18,0 [°C DB]	20,0 [°C DB]	21,0 [°C DB]	22,0 [°C DB]	24,0 [°C DB]		
		TC	TC	TC	TC	TC	TC	1)	TC: Total capacity [kW] H: High M: Medium L: Low
32	H	4,7	4,3	4,0	3,8	3,7	3,3	2) Outdoor temperature -7°C DB / -6°C WB	
	M	Correction factor -0.85 × H·							
	L	Correction factor -0.73 × H·							
50	H	7,4	6,8	6,3	6,0	5,8	5,3		
	M	Correction factor -0.81 × H·							
	L	Correction factor -0.65 × H·							
63	H	9,3	8,7	8,0	7,7	7,3	6,7		
	M	Correction factor -0.79 × H·							
	L	Correction factor -0.63 × H·							
100	H	14,6	13,6	12,5	12,0	11,4	10,4		
	M	Correction factor -0.74 × H·							
	L	Correction factor -0.48 × H·							

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6 Dimensional drawings

6 - 1 Dimensional Drawings

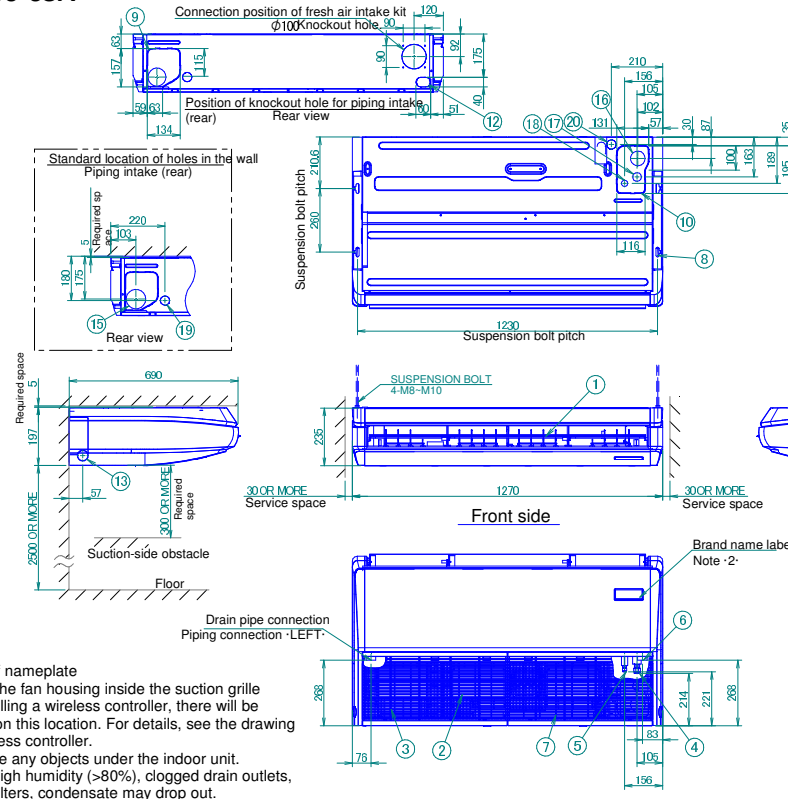
FXHA32A



Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection $\phi 9.5$ flare	
5	Liquid pipe connection $\phi 6.4$ flare	
6	Drain pipe connection	VP20
7	Terminal block with earth terminal	M4
8	Located inside of the unit	
9	Metal hanger	
10	Position of knockout hole	Rear side
11	Position of knockout hole	Top
12	Piping intake (right)	Knockout hole.
13	Drain piping intake (left-rear)	Knockout hole.
14	Drain piping intake (left)	Knockout hole.
15	Drain piping intake (right)	Knockout hole.
16	Standard location of holes in the wall	$\phi 100$
17	Piping intake (rear)	$\phi 60$
18	Drain piping intake (top)	$\phi 26$
19	Gas piping intake (top)	$\phi 26$
20	Liquid piping intake (top)	$\phi 29$
21	Power supply wiring and control wiring intake (rear)	$\phi 29$
22	Power supply wiring and control wiring intake (top)	$\phi 29$

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FXHA50-63A



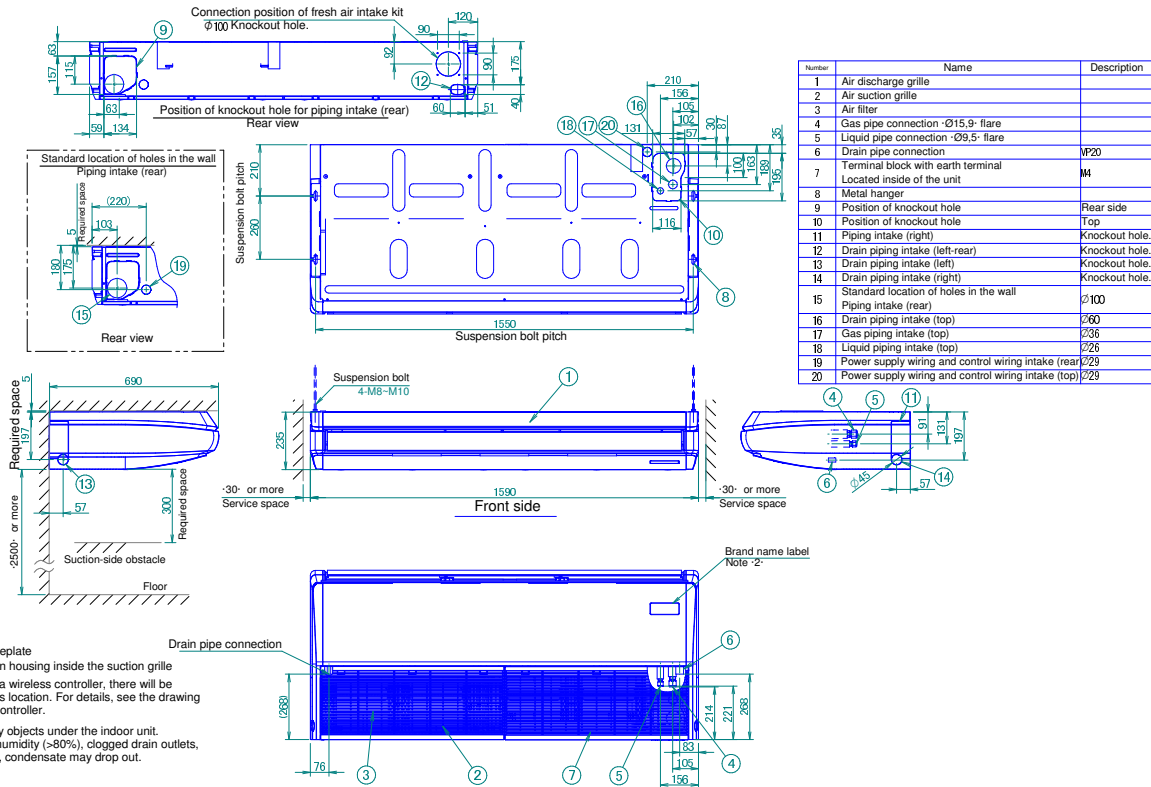
Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe	$\phi 12.7$ FLARE
5	Liquid pipe	$\phi 6.4$ FLARE
6	Drain pipe connection	VP20
7	Terminal block with earth terminal	M4
8	Located inside of the unit	
9	Metal hanger	
10	Position of knockout hole	Rear side
11	Position of knockout hole	Top
12	Piping intake (right)	Knockout hole.
13	Drain piping intake (left-rear)	Knockout hole.
14	Drain piping intake (left)	Knockout hole.
15	Drain piping intake (right)	Knockout hole.
16	Standard location of holes in the wall	$\phi 100$
17	Piping intake (rear)	$\phi 60$
18	Drain piping intake (top)	$\phi 26$
19	Gas piping intake (top)	$\phi 26$
20	Liquid piping intake (top)	$\phi 29$
21	Power supply wiring and control wiring intake (rear)	$\phi 29$
22	Power supply wiring and control wiring intake (top)	$\phi 29$

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6 Dimensional drawings

6 - 1 Dimensional Drawings

FXHA-A

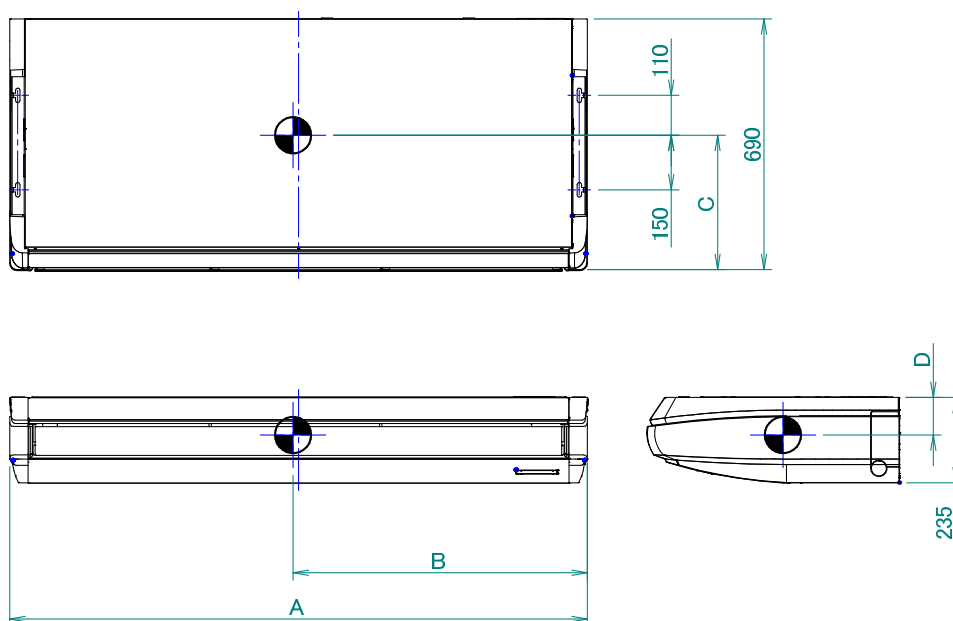


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7 Centre of gravity

7 - 1 Centre of Gravity

FXHA-A

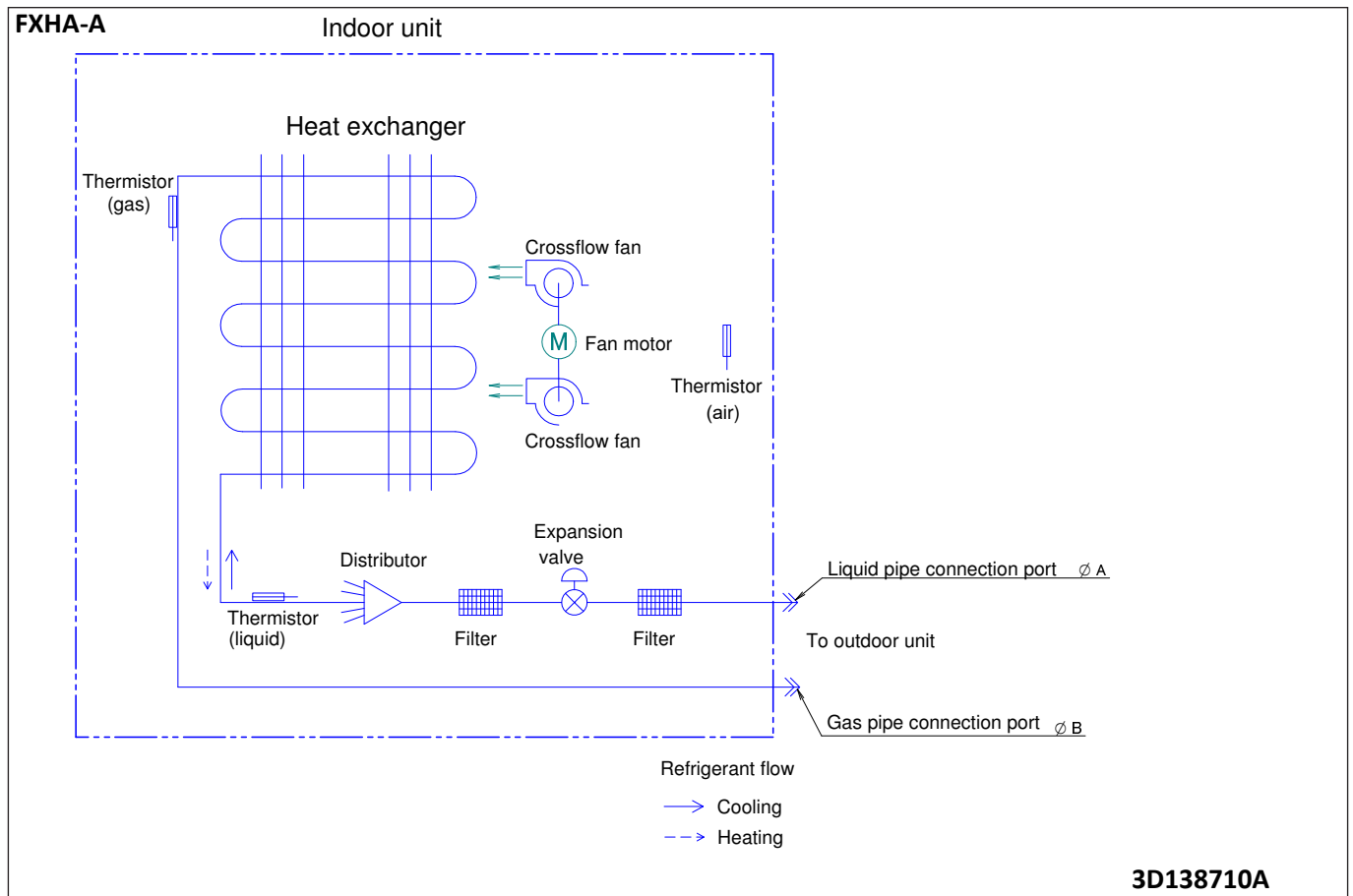


Model name	A	B	C	D
FXHA32AVEB8 FXHQ32AVEB8	960	475	365	85
FXHA50AVEB8 FXHA63AVEB8 FXHQ63AVEB8	1270	660	365	85
FXHA100AVEB8 FXHQ100AVEB8	1590	820	365	85

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8 Piping diagrams

8 - 1 Piping Diagrams

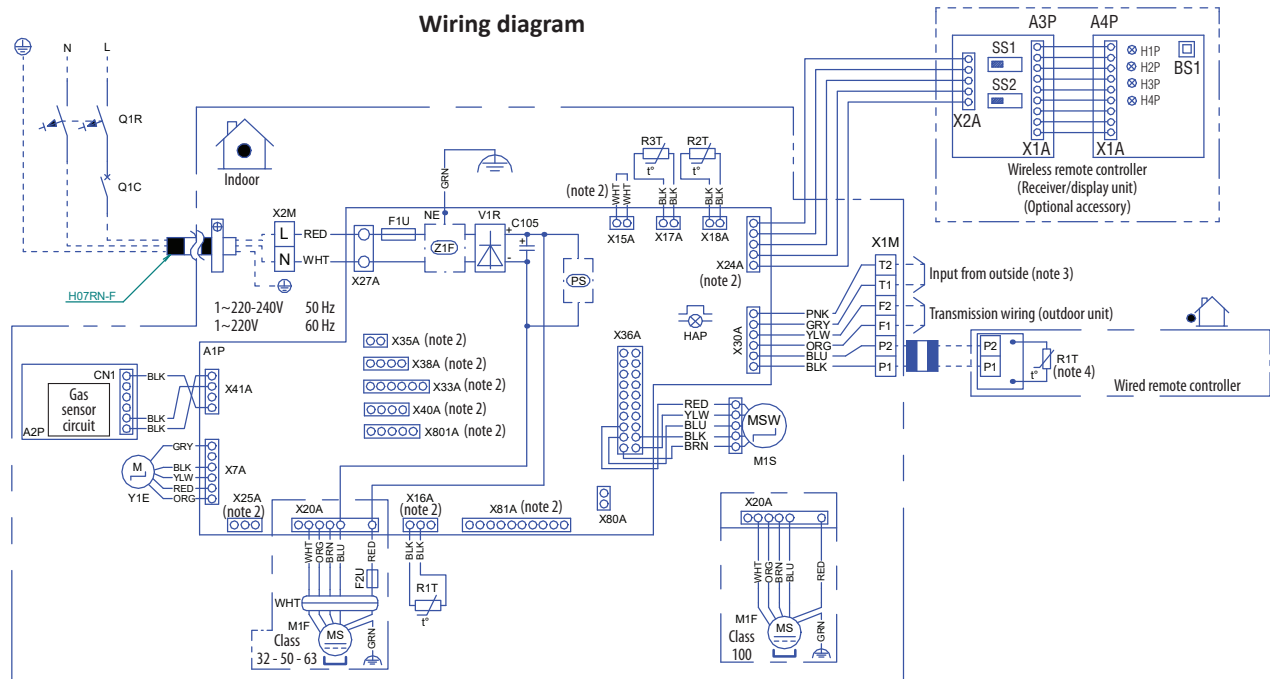


9 Wiring diagrams

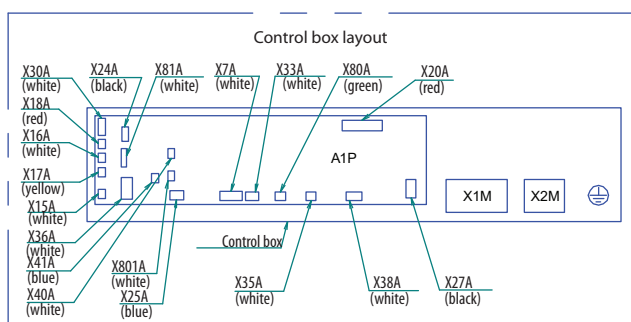
9 - 1 Wiring Diagrams - Single Phase

FXHA-A

Wiring diagram



Indoor unit	
A1P	Printed circuit board (main)
C105	Capacitor
F1U	Fuse (T, 3.15A, 250V)
F2U	Fuse
HAP	Flashing lamp (Service monitor: green)
M1S	Motor (swing blade)
M1F	Motor (indoor fan)
R1T	Thermistor (air)
R2T, R3T	Thermistor (coil)
S1L	Float switch (drain pump)
V1R	Diode bridge
X7A-X801A	Connector
X1M	Terminal block (Remote controller)
X2M	Terminal block (Power supply)
Z1F	Noise filter
PS	Switching power supply
Y1E	Electronic expansion valve
Q1R	Residual current device
Q1C	Circuit breaker
NE	Noiseless earth
CN1	Gas sensor connector
A2P	Printed circuit board (gas sensor)
Wired remote controller	
R1T	Thermistor (air)
Wireless remote controller	
A3P	Printed circuit board
A4P	Printed circuit board
BS1	Push button switch (on/off)
H1P	Pilot lamp (on-red)
H2P	Pilot lamp (timer green)
H3P	Pilot lamp (filter sign-red)
H4P	Pilot lamp (defrost - orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (Wireless address set)



NOTES

1. □ □ □ : terminal block, □ □ □ : connector, - □ □ □ : field wiring, □ □ □ : short circuit connector
2. X15A, X16A, X24A, X25A, X33A, X35A, X38A, X40A, X81A, X801A are (re) connected when optional accessories are being used, see wiring diagram of this accessory.
3. Can be used for fire alarm input only. See installation manual for more information.
4. In case of main/sub changeover, see the installation manual attached to remote controller.

WIRE COLORS

BLK	: Black
BLU	: Blue
YLW	: Yellow
BRN	: Brown
ORG	: Orange
RED	: Red
WHT	: White
GRN	: Green
PNK	: Pink
GRY	: Grey

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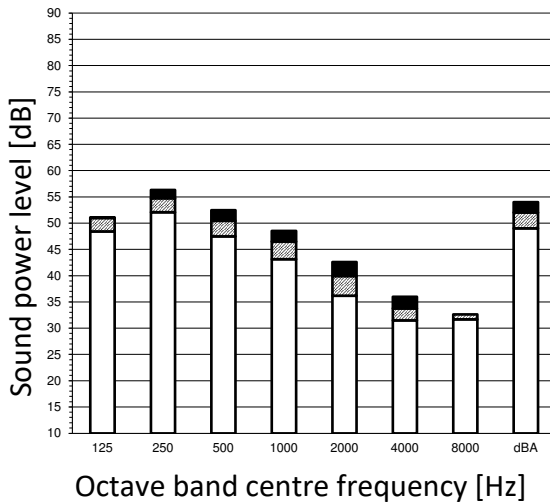
10 Sound data

10 - 1 Sound Power Spectrum

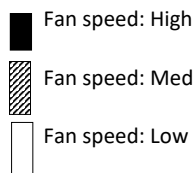
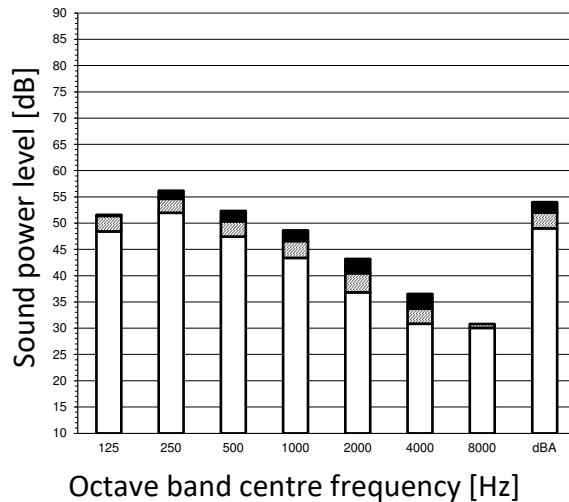
FXHA32A

10

Cooling



Heating



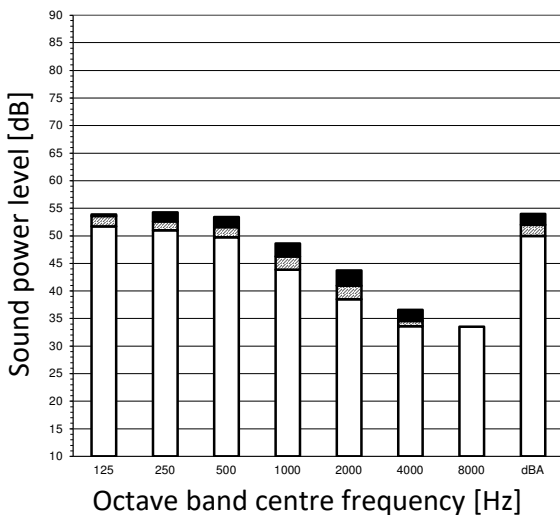
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = $\cdot 10E-6 \cdot \mu W$
3. Measured according to ISO 3744

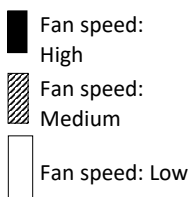
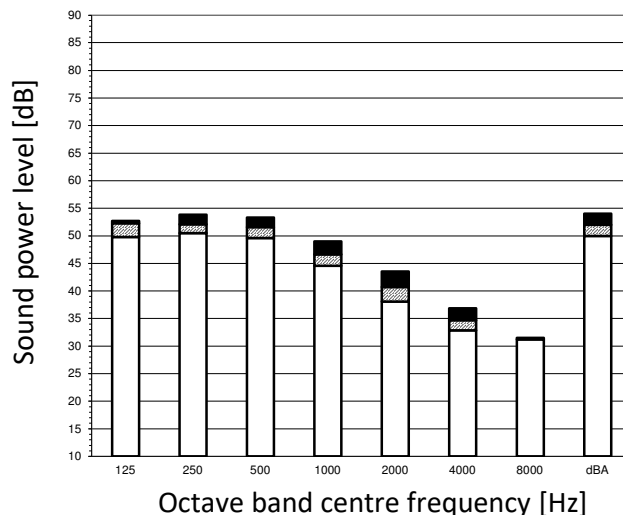
4D139058

FXHA50A

Cooling



Heating



Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = $\cdot 10E-6 \cdot \mu W$
3. Measured according to ISO 3744

4D139059

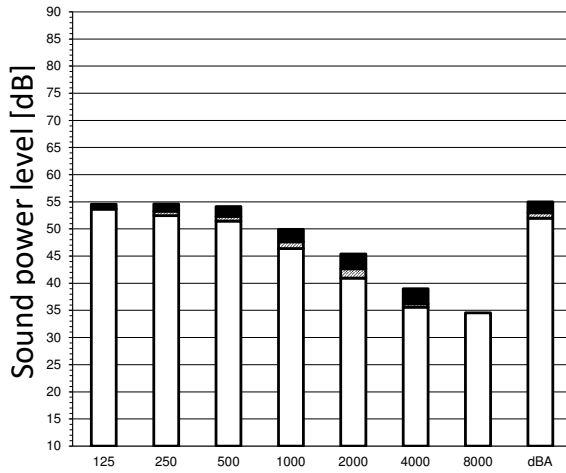
10 Sound data

10 - 1 Sound Power Spectrum

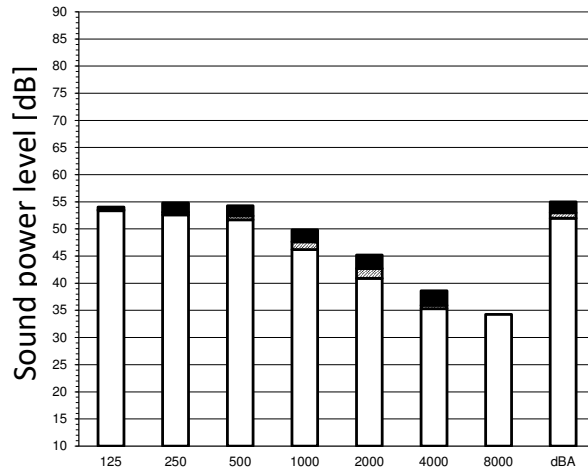
FXHA63A

10

Cooling

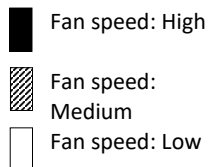


Heating



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]



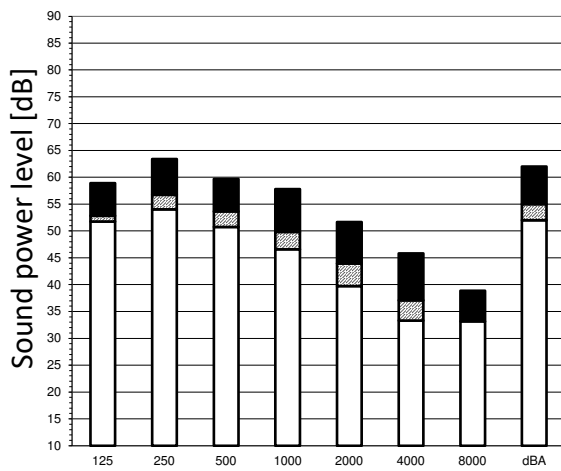
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = 10^{-6} W
3. Measured according to ISO 3744

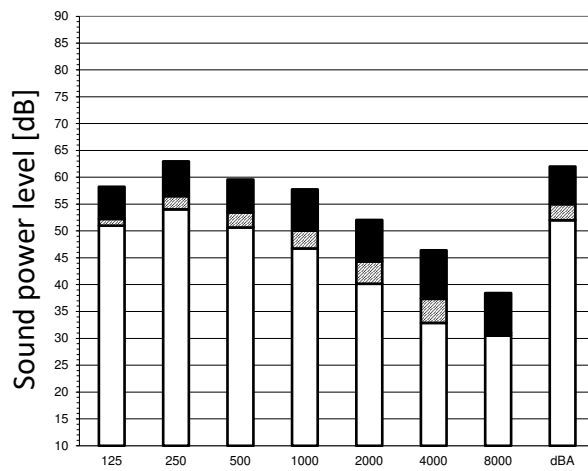
4D139060

FXHA100A

Cooling

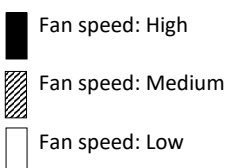


Heating



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]



Notes

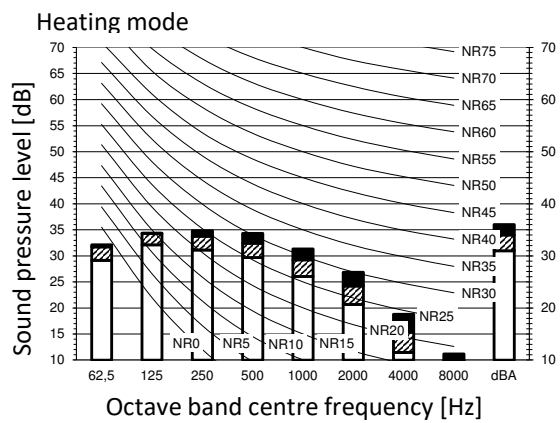
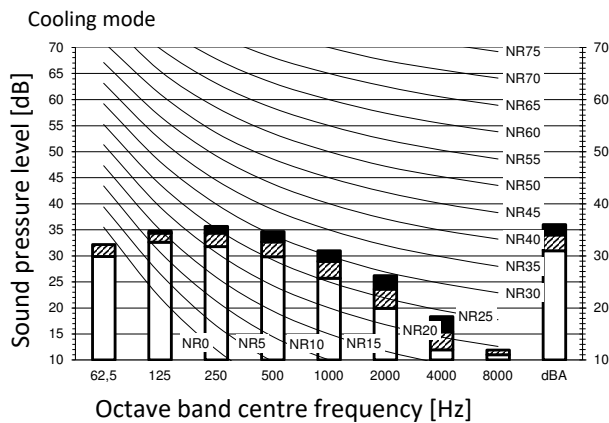
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = 10^{-6} W
3. Measured according to ISO 3744

4D139061

10 Sound data

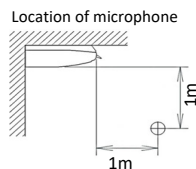
10 - 2 Sound Pressure Spectrum

FXHA32A



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

- A** Scale
- B** Fan speed: High
- C** Fan speed: Medium
- D** Fan speed: Low



Cooling		Total dB	
A	B	C	D
dBa	36,0	34,0	31,0

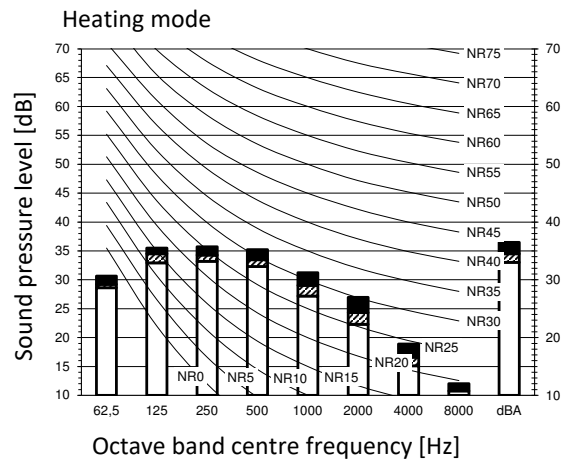
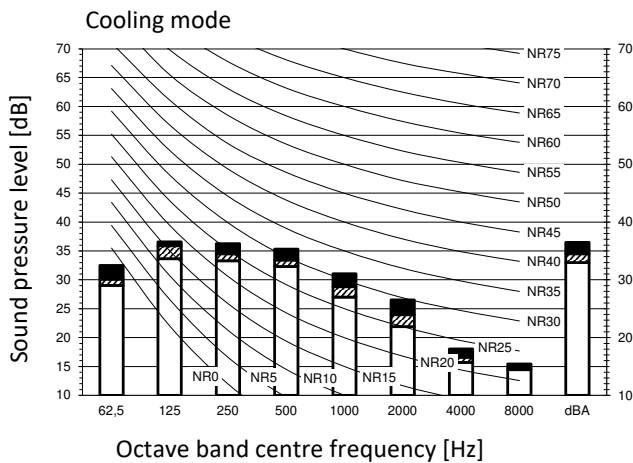
Heating		Total dB	
A	B	C	D
dBa	36,0	34,0	31,0

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

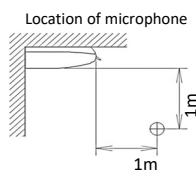
4D139052

FXHA50A



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

- A** Scale
- B** Fan speed: High
- C** Fan speed: Medium
- D** Fan speed: Low



Cooling		Total dB	
A	B	C	D
dBa	36,5	34,5	33,0

Heating		Total dB	
A	B	C	D
dBa	36,5	34,5	33,0

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

4D139054

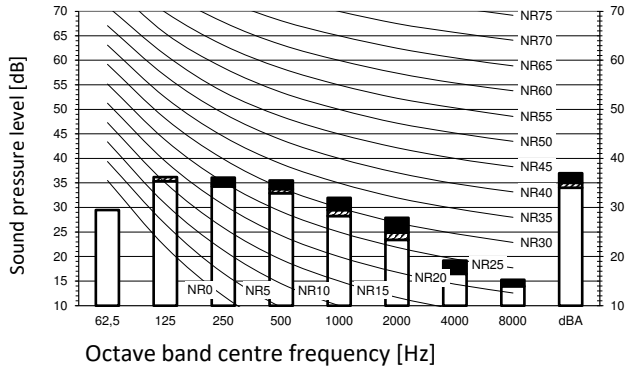
10 Sound data

10 - 2 Sound Pressure Spectrum

FXHA63A

10

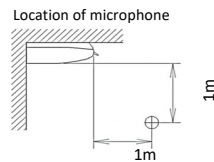
Cooling mode



Octave band centre frequency [Hz]

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

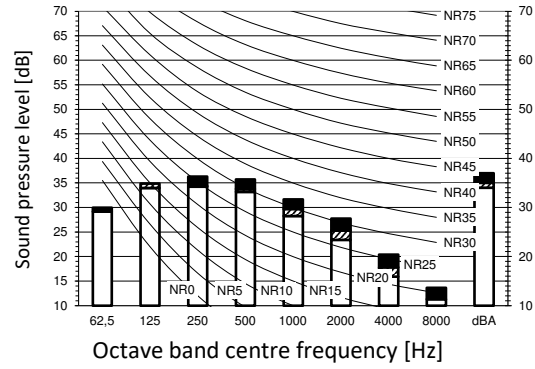
- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low



Cooling	Total dB
A B C D	
dBa	37,0 35,0 34,0

Heating	Total dB
A B C D	
dBa	37,0 35,0 34,0

Heating mode



Octave band centre frequency [Hz]

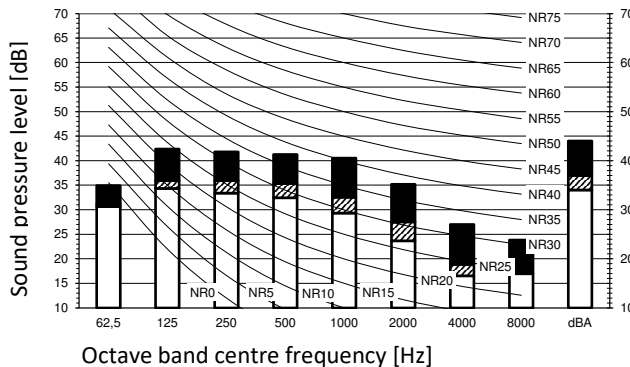
Notes

- 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

4D139055

FXHA100A

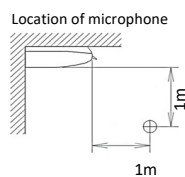
Cooling mode



Octave band centre frequency [Hz]

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

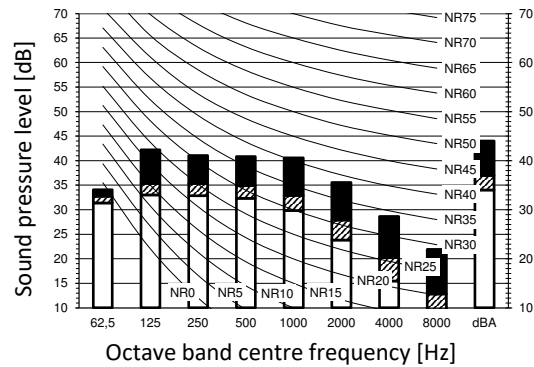
- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low



Cooling	Total dB
A B C D	
dBa	44,0 37,0 34,0

Heating	Total dB
A B C D	
dBa	44,0 37,0 34,0

Heating mode



Octave band centre frequency [Hz]

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

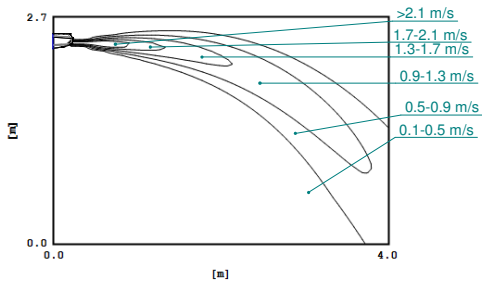
4D139056

11 Air flow patterns

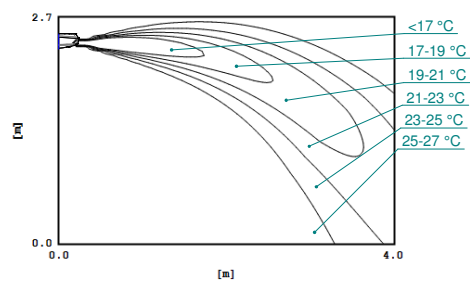
11 - 1 Air flow pattern - Cooling and Heating

FXHA32A

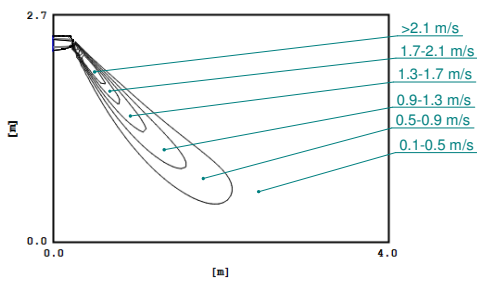
Air velocity distribution (cooling)
Air flow direction: horizontal



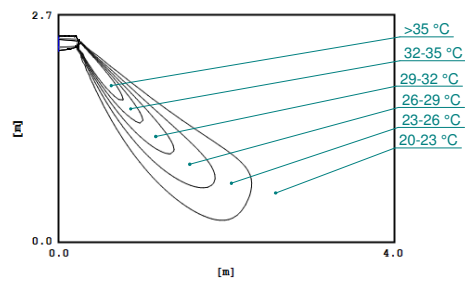
Air temperature distribution (cooling)
Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



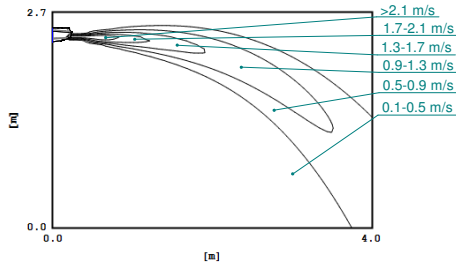
Air temperature distribution (heating)
Air flow direction: vertical



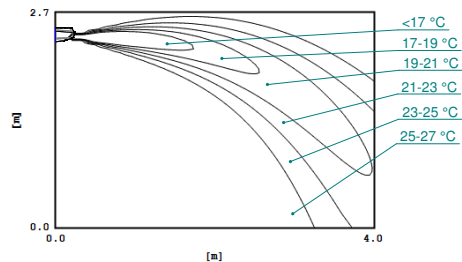
3D138871

FXHA50A

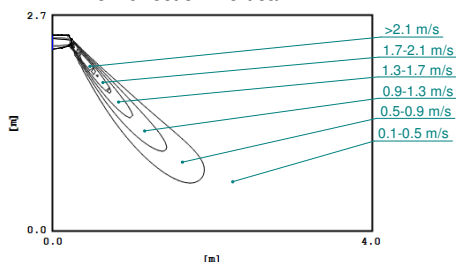
Air velocity distribution (cooling)
Air flow direction: horizontal



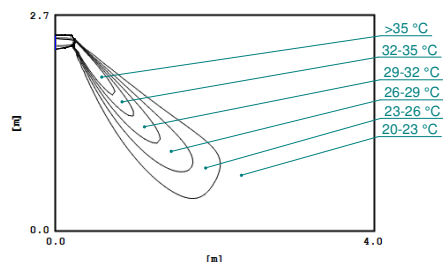
Air temperature distribution (cooling)
Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



Air temperature distribution (heating)
Air flow direction: vertical



3D138872

11 Air flow patterns

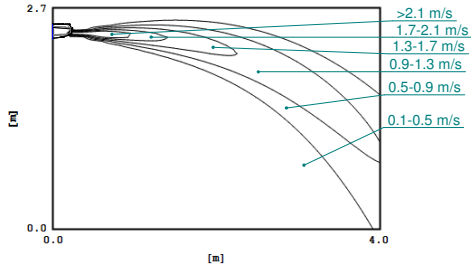
11 - 1 Air flow pattern - Cooling and Heating

11

FXHA63A

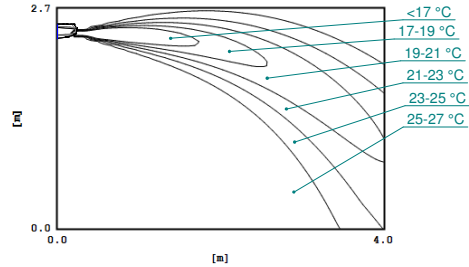
Air velocity distribution (cooling)

Air flow direction: horizontal



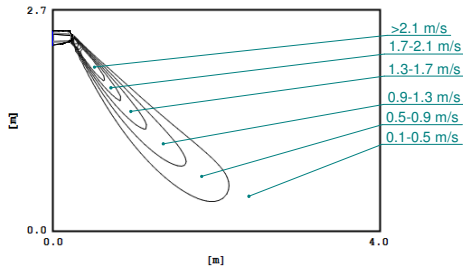
Air temperature distribution (cooling)

Air flow direction: horizontal



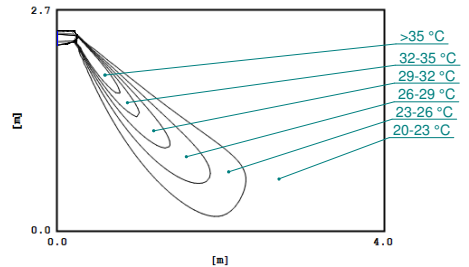
Air velocity distribution (heating)

Air flow direction: vertical



Air temperature distribution (heating)

Air flow direction: vertical

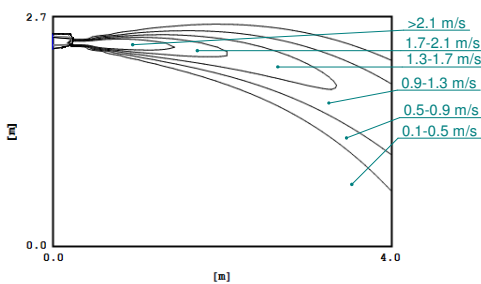


3D138873

FXHA100A

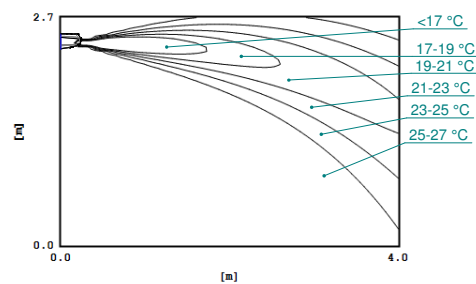
Air velocity distribution (cooling)

Air flow direction: horizontal



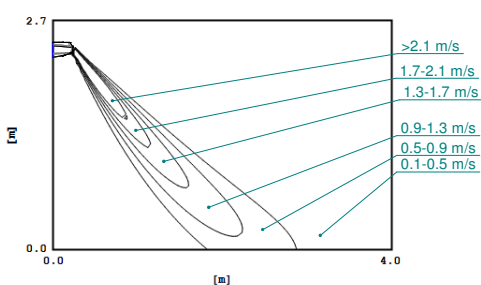
Air temperature distribution (cooling)

Air flow direction: horizontal



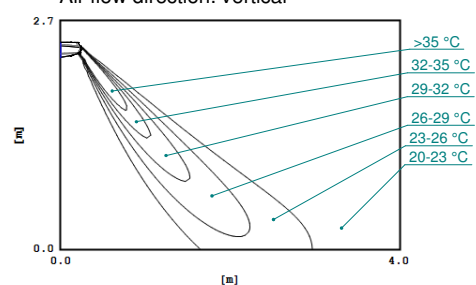
Air velocity distribution (heating)

Air flow direction: vertical



Air temperature distribution (heating)

Air flow direction: vertical



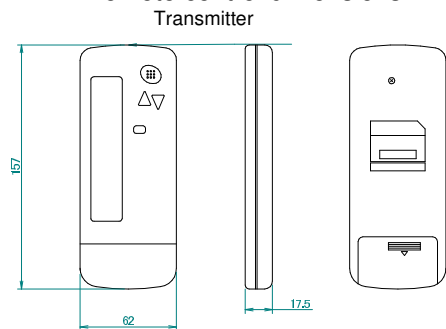
3D138874

12 Installation

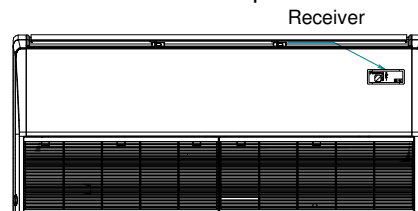
12 - 1 Installation Method

FXHA-A

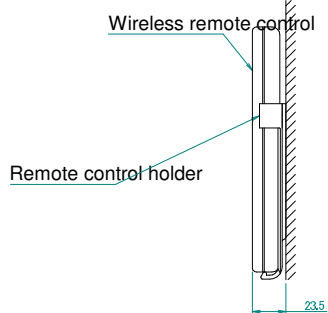
Remote control dimensions



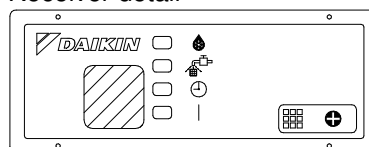
Receiver installation procedure



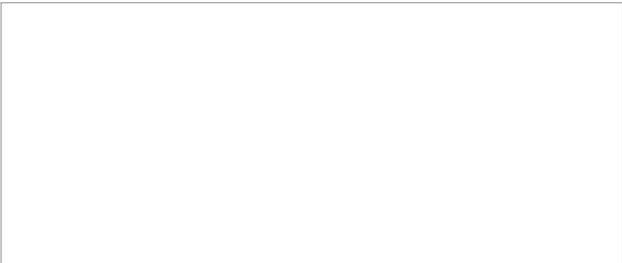
Installation to wall surface



Receiver detail



3D109659



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03/2023



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