

Air Conditioning Technical Data

FUA-A



- > FUA71AVEB
- > FUA100AVEB
- > FUA125AVEB

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1 Features

Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Unified indoor unit can be combined with R-32 and R-410A outdoor units, simplifying stock
- Combining with R-32 Bluevolution technology, reduces environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has up to lower 16% refrigerant charge
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control
- Standard drain pump with 500mm lift increases flexibility and installation speed



Infrastructure cooling



Home leave operation



Fan only



Draught prevention



Auto cooling-heating changeover



Individual flap control



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Drain pump kit



Twin/triple/double twin application

2 Specifications

2-1 Technical Specifications					FUA71A		FUA100A		FUA125A	
Casing	Colour				Fresh White					
	Material				Resin					
Dimensions	Unit	Height/Width/Depth		mm	198/950/950					
	Packed unit	Height/Width/Depth		mm	295/1,026/1,016					
Weight	Unit			kg	25.0		26.0			
	Packed unit			kg	36		38			
Packing	Material				Carton + Wood + EPS				-	
Heat exchanger	Inside length			mm	2,413		2,360			
	Outside length			mm	2,467					
	Rows	Quantity			2		3			
	Fin pitch			mm	1.20					
	Face area			m²	0.338		0.330			
	Stages	Quantity			10					
	Empty tubeplate hole	Quantity			0					
	Tube type				Hi-XA					
	Fin	Type			Multi slit fin					
Air filter	Type				Resin net					
Fan	Type				Turbo fan					
	Quantity				1					
	Air flow rate	Cooling	High	m³/min	23.0		31.0		32.5	
				cfm	812		1,095		1,148	
			Mediu m	m³/min	19.5		25.5		26.5	
				cfm	689		901		936	
			Low	m³/min	16.0		20.0		20.5	
				cfm	565		706		724	
		Heating	High	m³/min	23.0		31.0		32.5	
				cfm	812		1,095		1,148	
			Mediu m	m³/min	19.5		25.5		26.5	
				cfm	689		901		936	
			Low	m³/min	16.0		20.0		20.5	
				cfm	565		706		724	
Fan motor	Quantity				1					
	Model				ARW5203DK		EHDS10DDK			
	Drive				Direct drive					
	Speed	Steps			3					
	Phase x Voltage			V	DC280V					
	Full load amps (FLA)	Cooling	A		0.7		1.0		1.1	
		Heating	A		0.7		1.0		1.1	
Sound power level	Cooling			dBA	59		64		65	
	Heating			dBA	59		64		-	
Sound pressure level	Cooling	High/Medium/ Low		dBA	41/38/35		46/42/39		47/43/40	
	Heating	High/Medium/ Low		dBA	41/38/35		46/42/39		47/43/40	
Piping connections	Liquid	Type/OD		mm	C1220T (Flare connection)/9,52					
	Gas	Type/OD		mm	C1220T (Flare connection)/15.9					
	Drain				VP25 (OD Ø32.0)					
Drain-up height				mm	600					

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Thermal insulation tube; Quantity : 3;

Standard Accessories : Tie-wraps; Quantity : 10;

Standard Accessories : Hose band; Quantity : 1;

Standard Accessories : Sealing material; Quantity : 4;

Standard Accessories : Washer fixing plate; Quantity : 1;

2 Specifications

Standard Accessories : Drain joint; Quantity : 1;

Standard Accessories : Non woven fabric; Quantity : 1;

Standard Accessories : Washer; Quantity : 8;

Standard Accessories : Fixing screw for drain hose; Quantity : 5;

2

2-2 Electrical Specifications			FUA71A	FUA100A	FUA125A
Current - 50Hz	Maximum running current	A	0.9	1.3	1.4

3 Options

3 - 1 Options

FUA-A

Option kit			Product name
Air discharge outlet sealing member			KDBHP49B140
Decoration panel			KDBTP49B140
Long-life replacement filter			KAFP551K160
Remote control	Wired remote control		BRC1D528, BRC1E51A7, BRC1E53A7 ⁽¹⁾ , BRC1E53B7 ⁽²⁾ , BRC1E53C7 ⁽³⁾ , BRC1E61
	Wireless remote control	Heat pump	BRC7CB58
		Cooling only	BRC7CB59
Simplified remote control (with operation mode selector button)			BRC2E52C7 ⁽⁴⁾
Simplified remote control (without operation mode selector button)			BRC3E52C7 ⁽⁴⁾
Central remote control			DCS302CA51, DCS302CA61
Unified ON/OFF controller			DCS301BA51, DCS301BA61
Schedule timer			DST301BA51, DST301BA61
Wiring adaptor for electrical appendices			KRP4AA53 ⁽⁵⁾
Installation box for adaptor PCB			KRP1BA97
Remote sensor			KRCS01-4B
Remote "ON/OFF" and "forced OFF" kit			EKRORO5
Electrical box with earth terminal (3 blocks)			KJB311AA
Electrical box with earth terminal (2 blocks)			KJB212AA
Digital input adaptor			BRP7A53 ⁽⁶⁾

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 Included languages are:

Language pack 1: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.

With PC cable EKPCCAB 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.

⑤ Requires installation box 6.

⑥ Only possible in combination with simplified remote control BRC2/3E52C7.

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4 Dimensional drawings

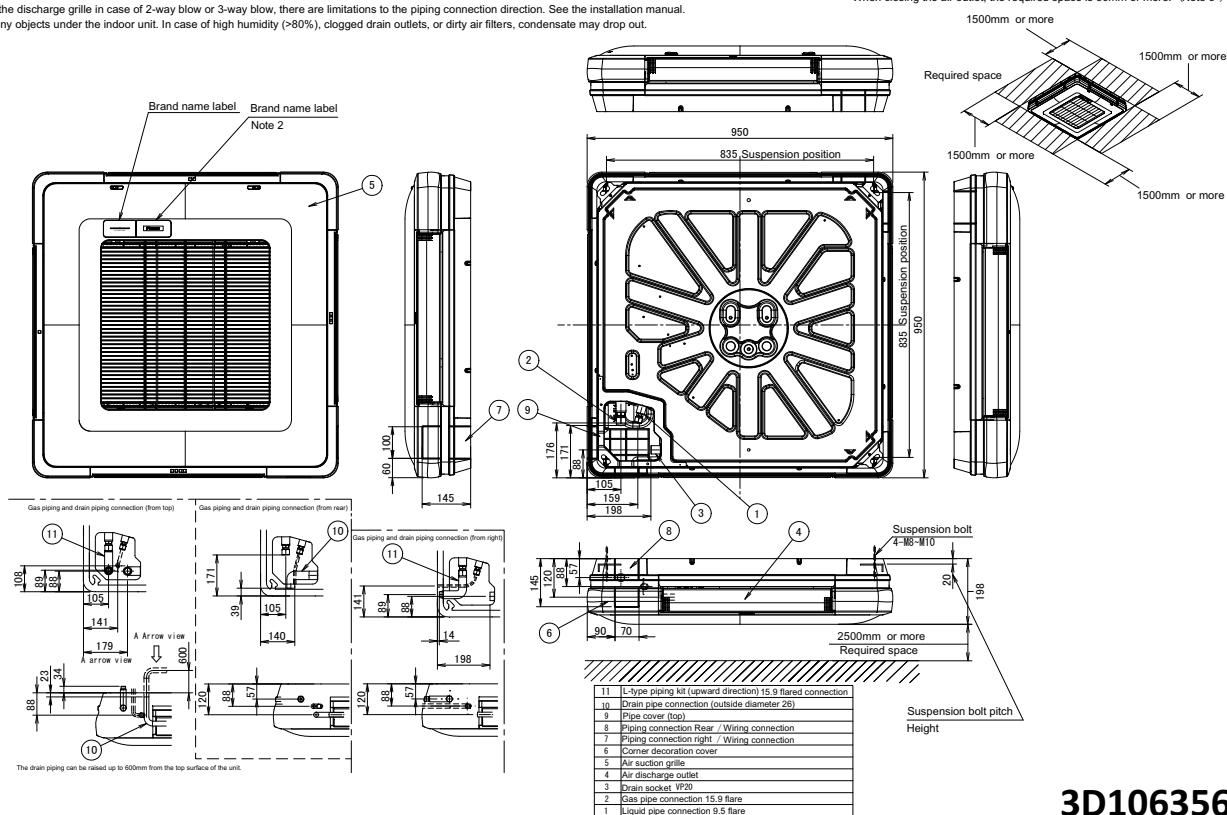
4 - 1 Dimensional Drawings

FUA-A

Notes

1. The unit nameplate is located on the control box cover.
2. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
3. When closing the discharge grille in case of 2-way blow or 3-way blow, there are limitations to the piping connection direction. See the installation manual.
4. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

When closing the air outlet, the required space is 30mm or more. (Note 3)

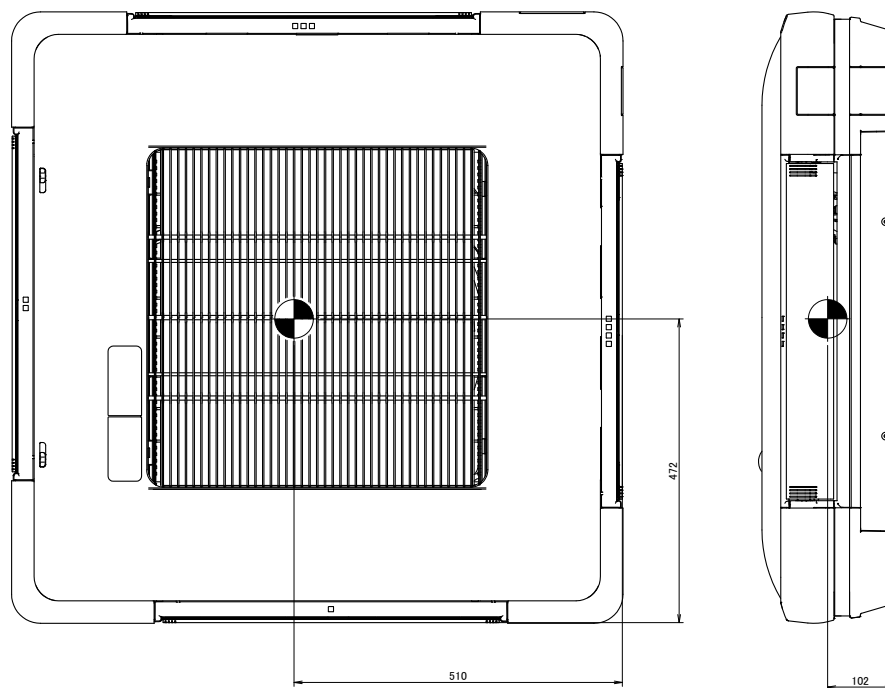


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5 Centre of gravity

5 - 1 Centre of Gravity

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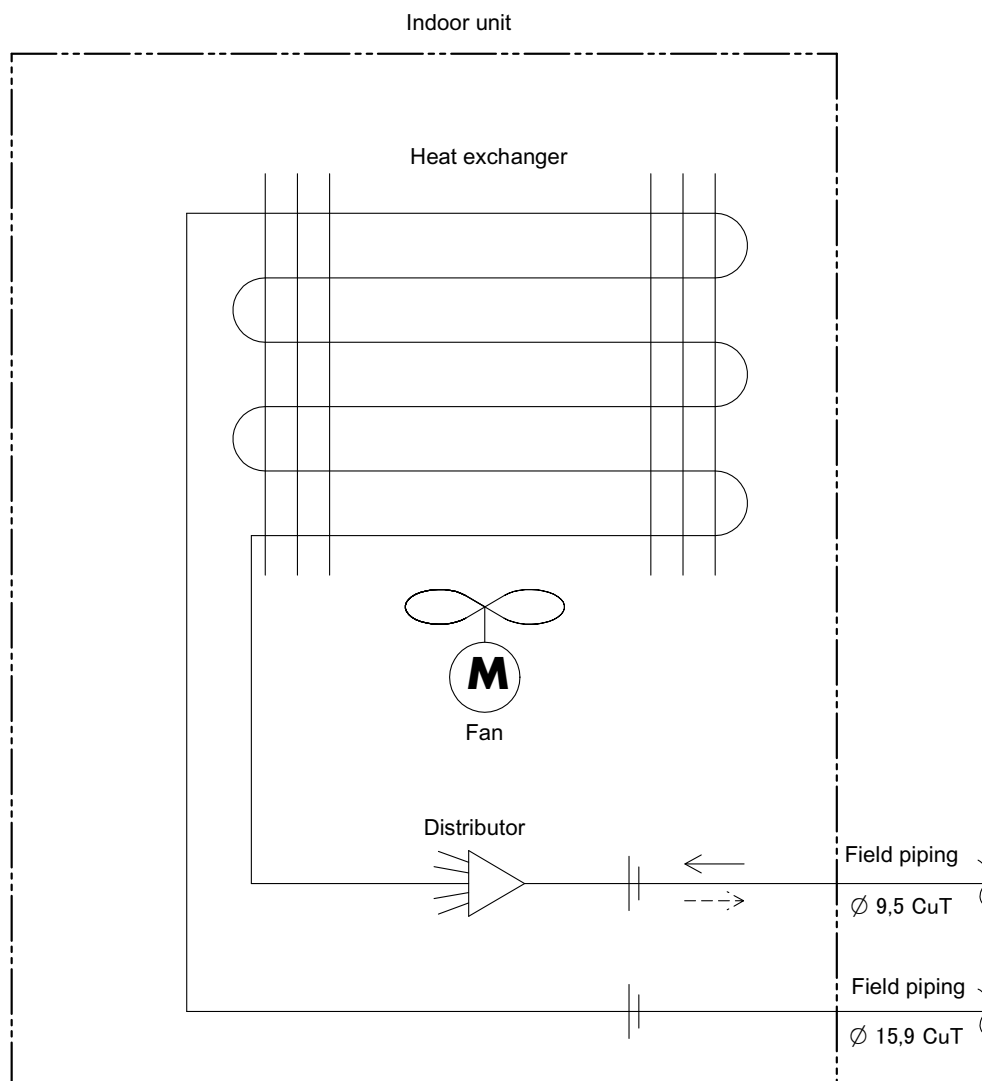


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6 Piping diagrams

6 - 1 Piping Diagrams

FUA-A



Refrigerant flow

—→ Cooling

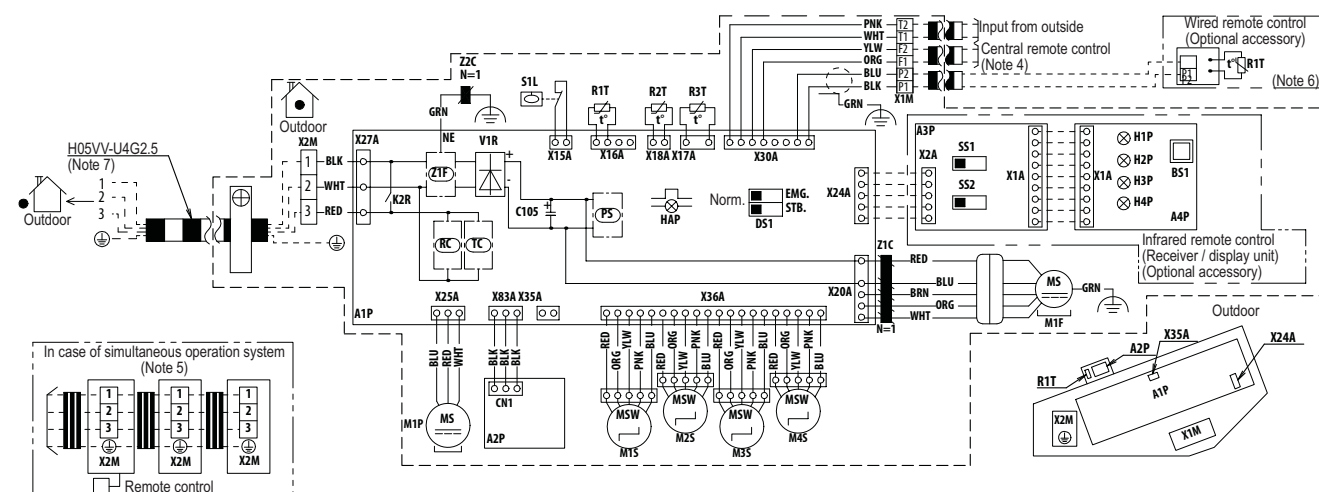
- - -→ Heating

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FUA-A



Indoor unit	
A1P	Printed circuit board
A2P	Printed circuit board
C105	Capacitor (M1F)
DS1	Dip switch on PCB flashing lamp
HAP	Flashing lamp (service monitor: green)
K2R	Magnetic relay
M1F	Motor (indoor fan)
M1P	Motor (drain pump)
M1~4S	Motor (swing blade)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
S1L	FLOATING SWITCH
V1R	Diode bridge
X1M	TERMINAL BLOCK
X2M	Terminal block
Z1F	Noise filter
Z1C	Ferrite core
Z2C	Ferrite core

PS	Power supply circuit
RC	Signal receiver circuit
TC	Signal transmission
Connector for optional parts	
X24A	Connector (infrared remote control)
X35A	Connector (power supply for adaptor)
Infrared remote control (receiver/display unit)	
A3P	Printed circuit board
A4P	Printed circuit board
BS1	Push button (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)
SS1	Selector switch (wireless address set)
Remote control	
R1T	Thermistor (air)

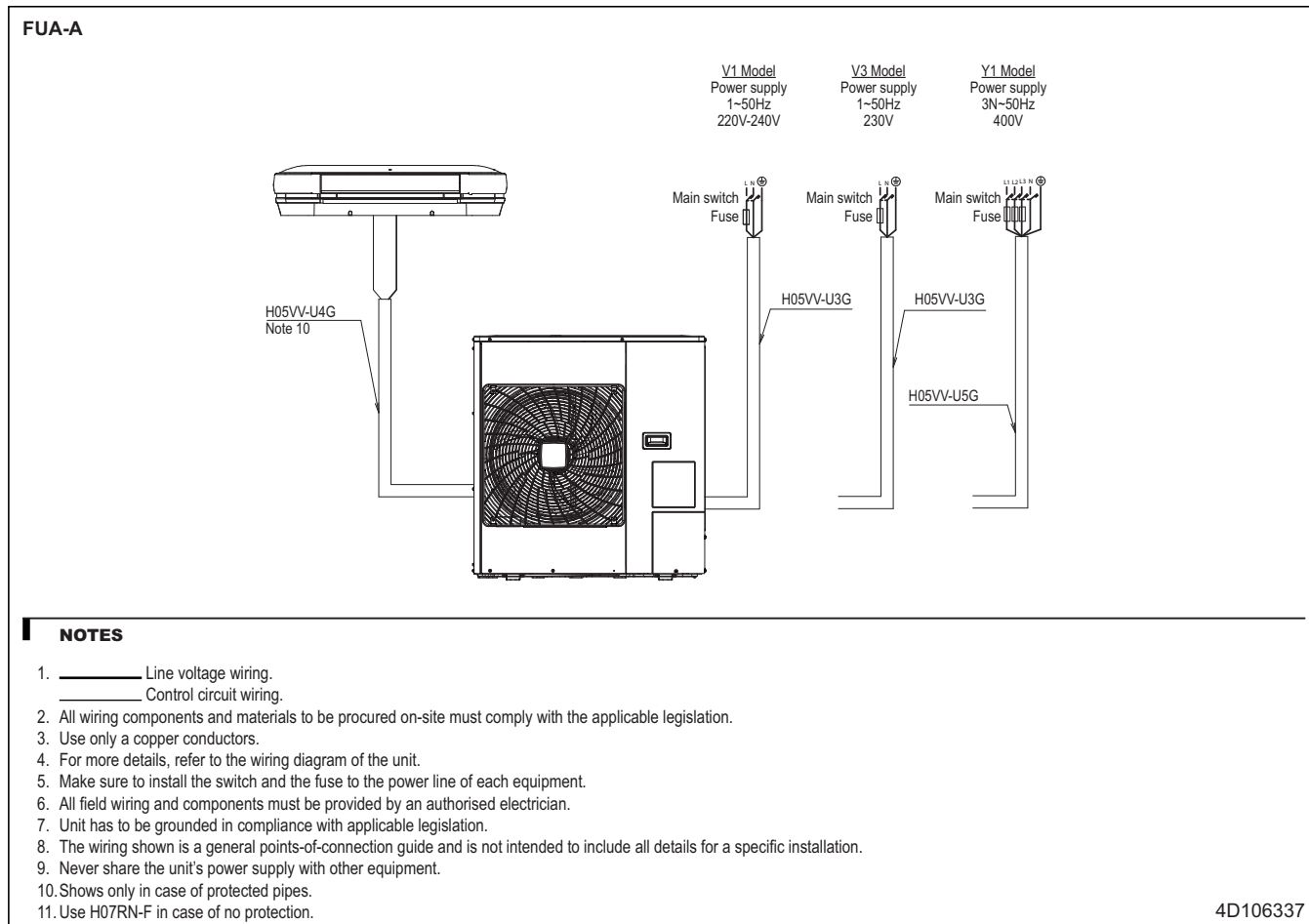
NOTES

- : terminal block, □□□: connector, -□□□-: field wiring, □□□: short circuit connector
- In case of simultaneous operation indoor unit system, see the indoor unit wiring only.
- For the detail, see wiring diagram attached to outdoor unit.
- In case using central remote control, connect it to the unit in accordance with the attached installation manual.
- In case of simultaneous operation system, connected quantity of the indoor units varies according to the connection outdoor unit. Confirm technical guide and catalogue, etc. before connecting.
- In case of main/sub changeover see the installation manual attached to remote control.
- Shows only in case of protection piping, use H07RN-F in case of no protection.
- Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, YLW: Yellow, GRN: Green, BRN: Brown, PNK: Pink.

8 External connection diagrams

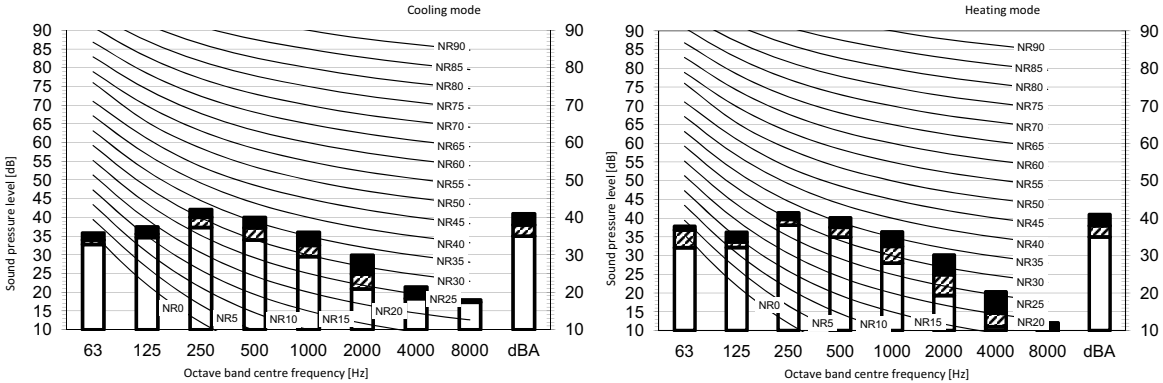
8 - 1 External Connection Diagrams

8



9 Sound data
9 - 1 Sound Pressure Spectrum

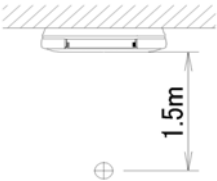
FUA71A



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

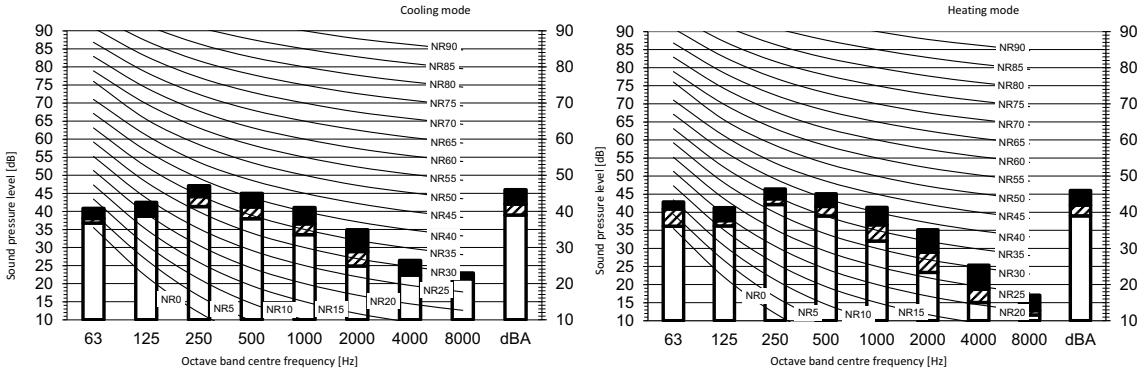


Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	41	38	35	dBA	41	38	35

- Notes
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - Background noise already taken into account.
 - Operating noise varies depending on operation and ambient conditions.
 - The operation noise measuring method is in accordance with JISC9612.
 - Measuring location: anechoic chamber

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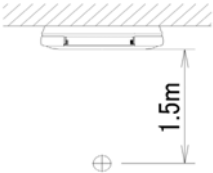
FUA100A



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				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	46	42	39	dBA	46	42	39

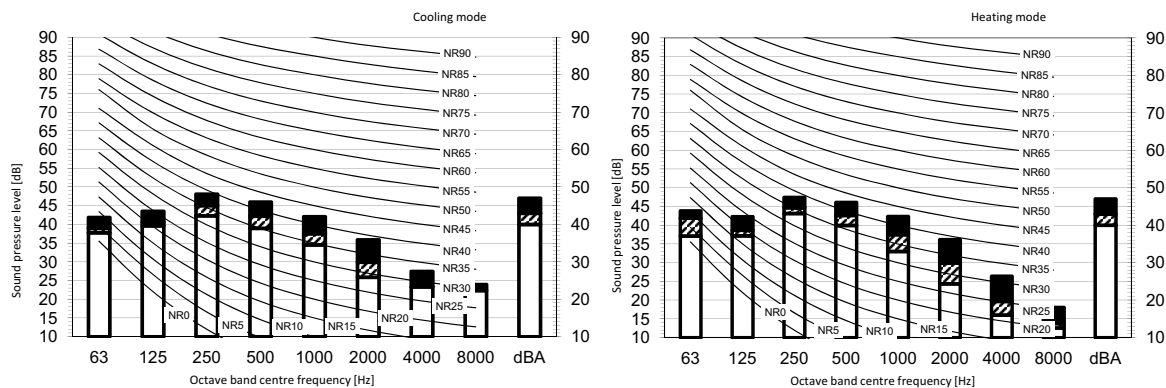
- Notes
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - Background noise already taken into account.
 - Operating noise varies depending on operation and ambient conditions.
 - The operation noise measuring method is in accordance with JISC9612.
 - Measuring location: anechoic chamber

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9 Sound data

9 - 1 Sound Pressure Spectrum

FUA125A



Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	47	43	40	dBA	47	43	40

Notes

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

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