



Wall mounted unit
Air Conditioning
Technical Data
FAA-B



FAA71BUV1B
FAA100BUV1B

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FAA-B

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1 Features

1 - 1 FAA-B

For rooms with no false ceilings nor free floor space

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- > Flat, stylish front panel blends easily within any interior décor and is easier to clean
- > Can easily be installed in both new and refurbishment projects
- > Unified indoor unit range for R-32 and R-410A
- > 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
- > The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- > Maintenance operations can be performed easily from the front of the unit
- > Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit



Infrastructure cooling



Onecta app (optional)



Home leave operation



Fan only



Auto cooling-heating changeover



Vertical auto swing



Fan speed steps (3 steps + auto)



Dry programme



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control



Auto-restart



Self diagnosis



Drain pump kit (optional)



Twin/triple/double twin application



2 Specifications

2 - 1 Specifications

Technical specifications				FAA71B	FAA100B	
Power input - 50Hz	Cooling	Nom.	kW	0.037 (1)	0.06	
	Heating	Nom.	kW	0.039 (2)	0.06	
Casing	Colour	White				
	Material	Resin				
Dimensions	Unit	Height	mm	290	340	
		Width	mm	1,050	1,200	
		Depth	mm	269	262	
	Packed unit	Height	mm	368	337	
		Width	mm	1,138	1,310	
		Depth	mm	380	429	
Weight	Unit			kg	14.0	18
	Packed unit			kg	18	23
Heat exchanger	Fin	Type	Cross fin coil (Multi slit fins and Hi-XB tubes)			
Fan	Type	Cross flow fan				
	Quantity	1				
Air flow rate	Cooling	High	m ³ /min	16.2	23.0	
			cfm	571	811	
			Medium	m ³ /min	13.4	21.1
		cfm	473	745		
		Low	m ³ /min	12.1	18.7	
			cfm	427	659	
	Heating		High	m ³ /min	16.9	23.0
		cfm		598	811	
		Medium		m ³ /min	14.2	20.9
		cfm	500	738		
		Low	m ³ /min	12.7	18.7	
			cfm	448	659	
Fan motor	Speed	Steps	3			
			Cooling	High	rpm	1,379
		Low		rpm	1,113	1,150
		Heating	High	rpm	1,431	1,360
	Low		rpm	1,155	1,150	
	Output	High	W	48	-	
	Phase x Voltage			DC310	DC325	
	Full load amps (FLA)	Cooling	A	0.3	0.5	
		Heating	A	0.4	0.5	
	Sound power level	Cooling			dB(A)	61.0
Heating				dB(A)	61.0	65.0
Sound pressure level	Cooling	High	dB(A)	45.0	49.0	
		Medium	dB(A)	42.0	45.0	
		Low	dB(A)	40.0	41.0	
	Heating	High	dB(A)	45.0	49.0	
		Medium	dB(A)	42.0	45.0	
		Low	dB(A)	40.0	41.0	
Refrigerant	Type	R32/R410A				
Piping connections	Liquid	Type	Flare connection			
		OD	mm	9.52		
	Gas	Type	Flare connection			
		OD	mm	15.9	15.90	
	Drain	VP13 (I.D. 13/O.D. 18)				
Heat insulation	Foamed polystyrene/polyethylene					
Fan motor	Speed	Cooling	Medium	rpm	1,206	1,270
		Heating	Medium	rpm	1,252	1,260

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

Standard accessories: Installation plate;Quantity: 1;

Standard accessories: Screw bag;Quantity: 1;

Standard accessories: Wire clamp material;Quantity: 4;

Standard accessories: Heat insulating tape;Quantity: 1;

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Screw cover;Quantity: 3;

Electrical specifications				FAA71B	FAA100B
Power supply	Phase			1~	
	Frequency	Hz		50	
	Voltage	V		220-240	

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

(2)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

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Safety devices		Class	
		71	100
FAA~BUV1B	Fan motor fuse (on wire)	250V, 3.15A	250V, 3.15A

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4 Options

4 - 1 Options

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Option kit		Product name	Compatibility	
			FAA71BUB1B	FAA100BUB1B
Wireless remote control	Heat pump	BRC7EA631	✓	×
		BRC7EA632	×	✓
Wired remote control		BRC1E53A7 (*1) / BRC1E53B7 (*2) / BRC1E53C7 (*3)	✓	✓
		BRC1H519W7/K7/S7	✓	✓
		BRC1H81W7/S7	✓	✓
		BRC1D528	✓	✓
		BRC1H52W/S/K	✓	✓
		BRC1H82W/S/K	✓	✓
		BRC2E52C7	✓	✓
	BRC3E52C7	✓	✓	
	Wiring adaptor for electrical appendices	KRP4A51 (*4)	✓	✓
	Installation box for adaptor PCB	KRP4B93	✓	✓
	Central remote control	DCS302C51	✓	✓
	Electrical box with earth terminal (-3- blocks)	KJB311A	✓	✓
	Electrical box with earth terminal (-2- blocks)	KJB212A	✓	✓
	Unified ON/OFF controller	DCS301B51	✓	✓
	Schedule timer	DST301B51	✓	✓
	Remote sensor	KRCS01-4B	✓	✓
	Drain pump kit	K-KDU572KVE	✓	✓
	iTouch Controller	DCS601CS1	✓	✓
	Digital input adaptor	BRP7A51 (*4)(*5)	✓	✓
	WLAN adaptor for smartphones	BRP069C81 (*6)	✓	✓
	Intelligent Touch Manager	DCM601A51	✓	✓
	Intelligent Tablet Controller	DCC601A51	✓	✓

Notes

(*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) This option needs to be installed together with installation box ·KRP4B93·.

(*5) Only possible in combination with remote control ·BRC1E* / BRC2E* / BRC3E* / BRC1H* / BRC1D*·.

(*6) Only possible in combination with wired or wireless remote control (e.g. ·BRC1H*·)

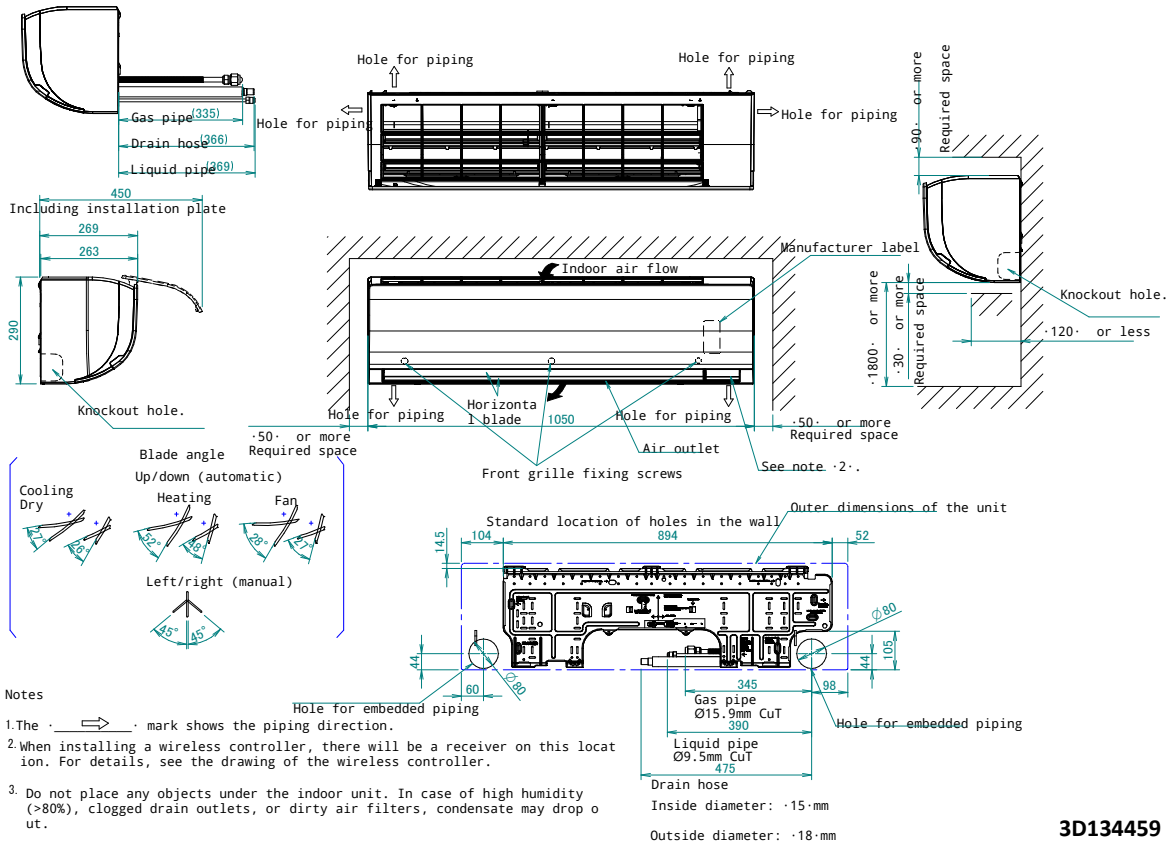
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5 Dimensional drawings

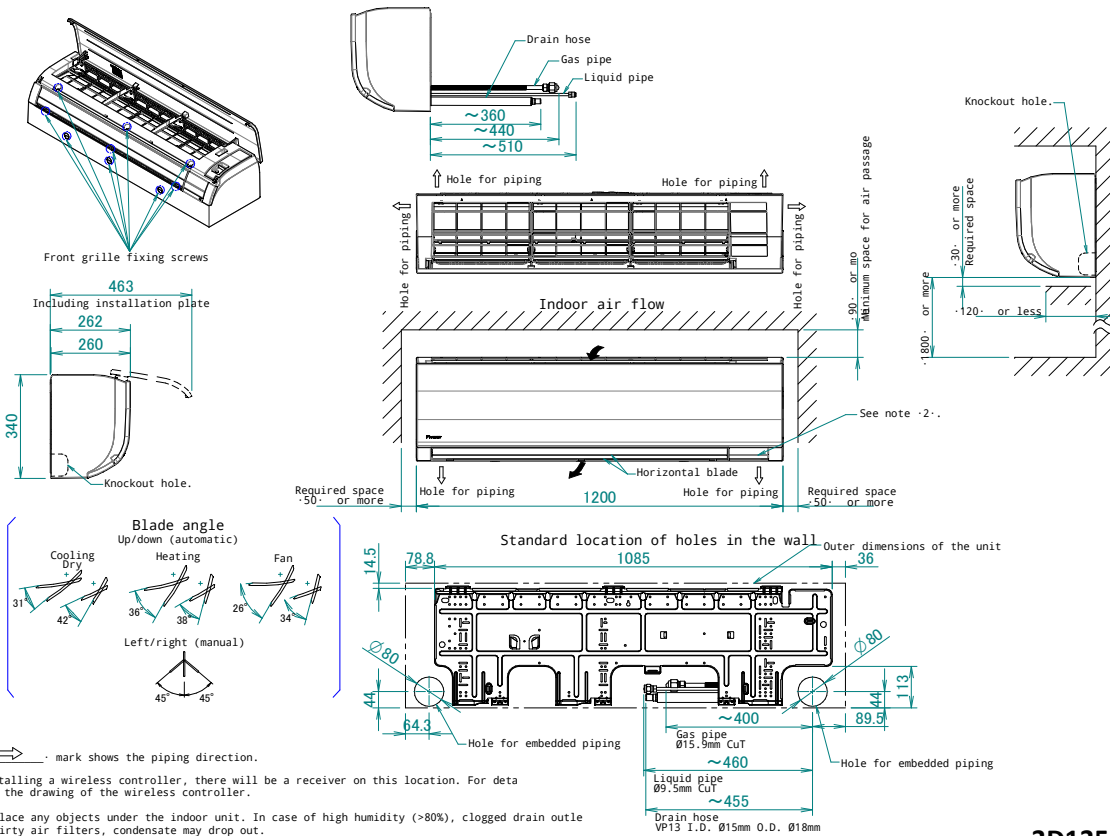
5 - 1 Dimensional Drawings

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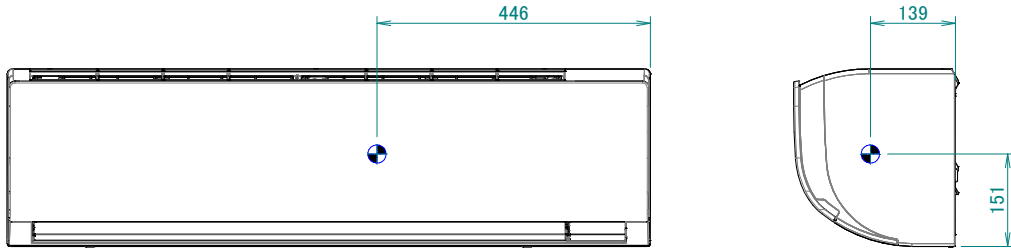


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6 Centre of gravity

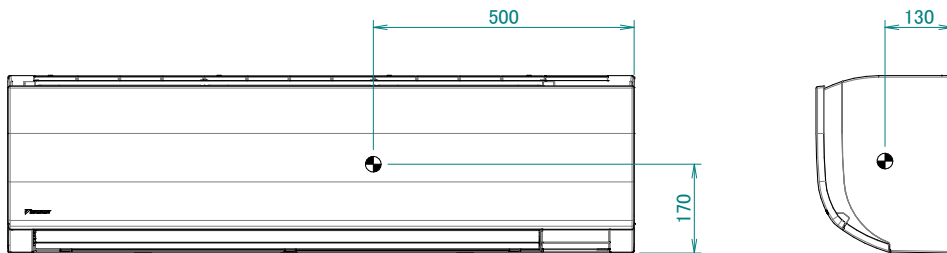
6 - 1 Centre of Gravity

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7 Piping diagrams

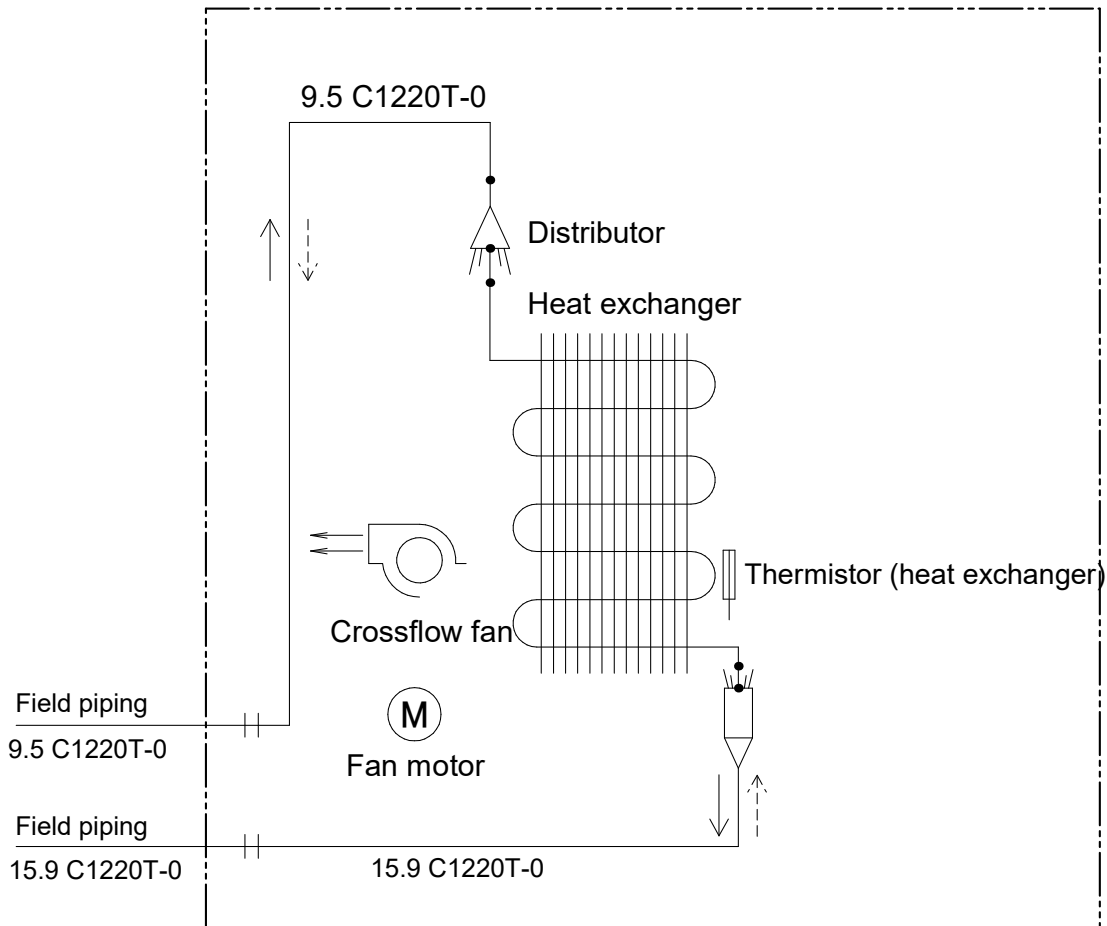
7 - 1 Piping Diagrams

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FAA-B

Indoor unit



Refrigerant flow

→ Cooling

- - -> Heating

Applicable models

FAA71/FAA100

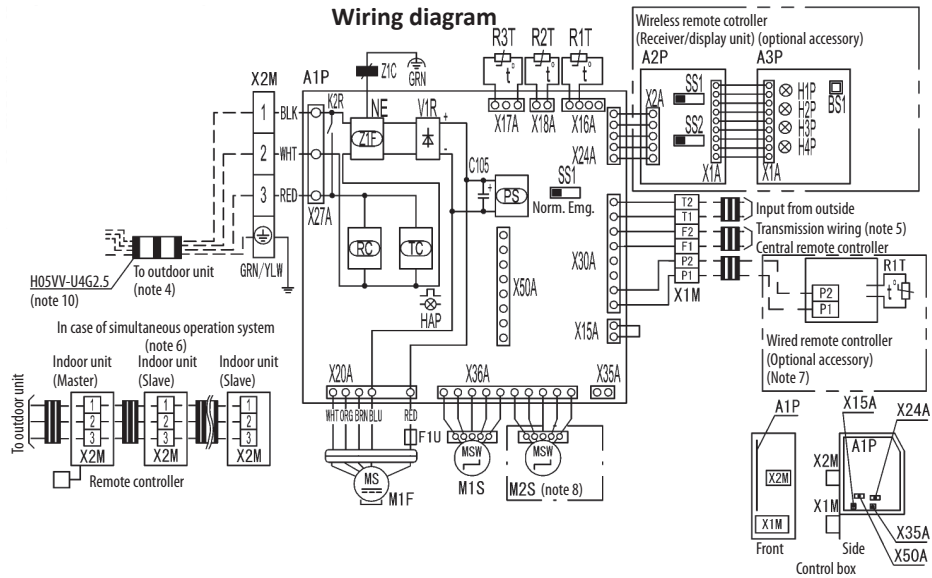
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8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

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Indoor unit	
A1P	Printed circuit board
C105	Capacitor
F1U	Fuse 3.15A
HAP	Flashing lamp (service monitor green)
K2R	Magnetic relay
M1F	Motor (indoor fan)
M1S	Motor (swing flap)
M2S	Motor (swing flap)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
SS1	Selector switch (emergency)
V1R	Diode bridge
X1M	Terminal block (remote controller)
X2M	Terminal block (transmission wiring)
Z1C	Ferrite core (noise filter)
Z1F	Noise filter
PS	Switching power supply
RC	Signal receiver circuit
TC	Signal transmission circuit
Wireless remote controller (Receiver/display unit)	
A2P	Printed circuit board
A3P	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)
SS2	Selector switch (wireless address set)
Wired remote controller	
R1T	Thermistor(air)
Connector for optional parts	
X15A	Connector (float switch)
X24A	Connector (wireless remote controller)
X35A	Connector (power supply for adapter)
X50A	Connector (Wireless adapter)



- NOTES**
- □ □ □: Terminal block, □ □ □ □: Connector, □ □ □ □: Short circuit connector
 - ⋮: Field wiring
 - 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 of using central remote controller, connect it to the unit in accordance with the attached installation manual.
 - In case of connection units varies according to the combination system, confirm engineering guide and catalogs, etc, before connecting.
 - In case of main/sub changeover, see the installation manual attached to remote controller.
 - M2S is for 100 class only.
 - Symbols shows as follows: BLK: black, RED: red, BLU: blue, WHT: white, YLW: yellow, ORG: orange, BRN: brown
 - Shows only in case of protected pipes. Use H07RN-F in case of no protection.



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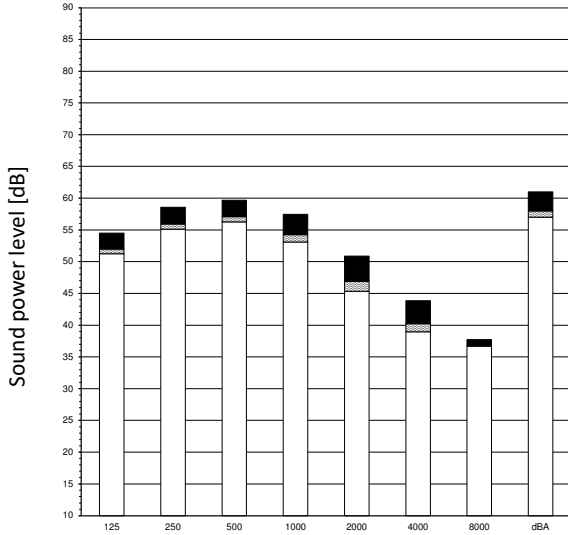
9 Sound data

9 - 1 Sound Power Spectrum

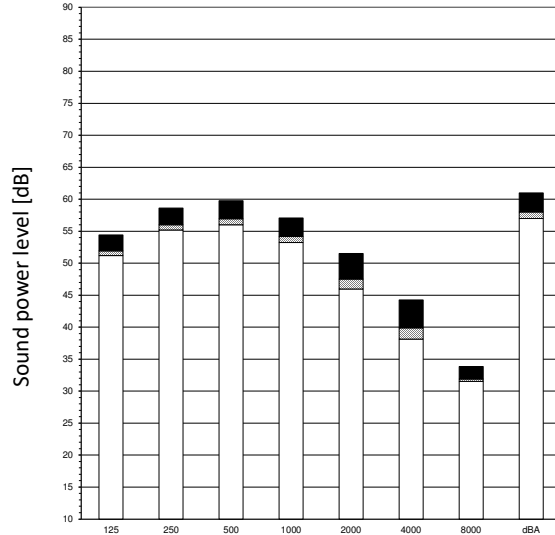
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Cooling

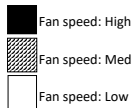


Heating



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]

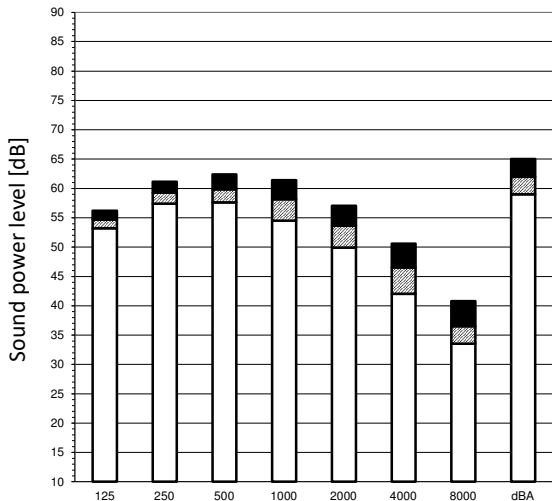


- Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
 2. Reference acoustic power 0 dB = -10E-6 μW
 3. Measured according to ISO 3744

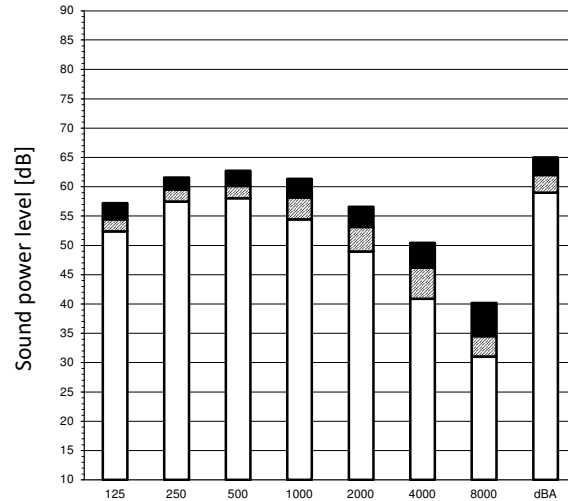
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Cooling

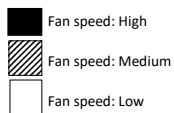


Heating



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]



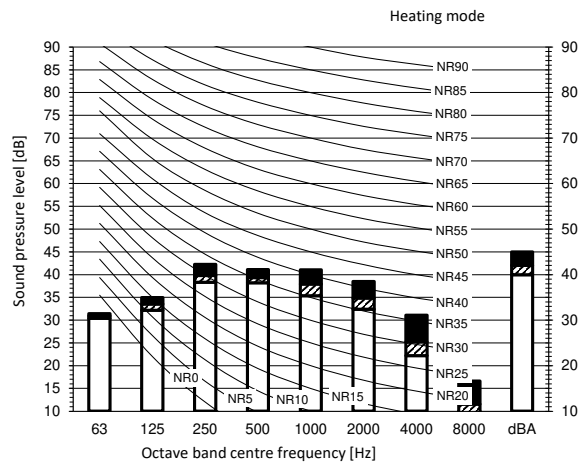
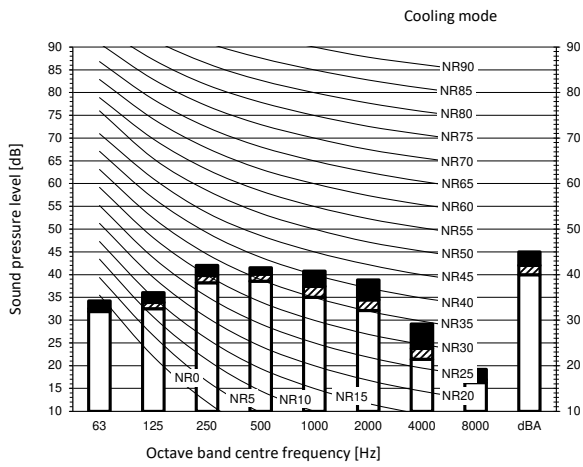
- Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
 2. Reference acoustic power 0 dB = -10E-6 μW
 3. Measured according to ISO 3744

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9 Sound data

9 - 2 Sound Pressure Spectrum

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Legend

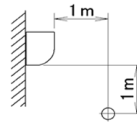
dBA = A-weighted sound pressure level (A scale according to IEC).

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

Cooling		Total dB	
A	B	C	D
dBa	45,0	42,0	40,0

Heating		Total dB	
A	B	C	D
dBa	45,0	42,0	40,0

Location of microphone

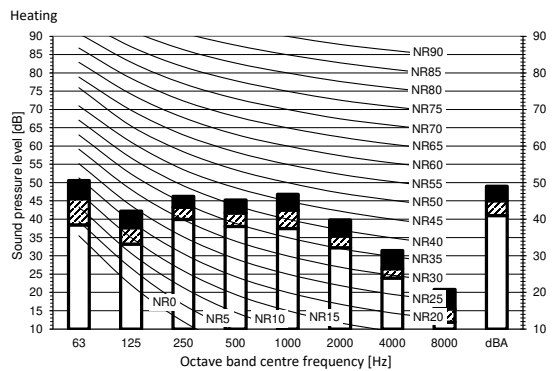
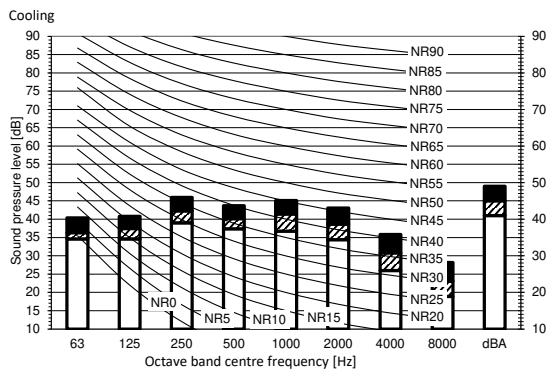


Notes

- 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

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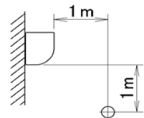


Legend

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

Location of microphone



Cooling

A	B	C	D
dBA	49,0	45,0	41,0

Heating

A	B	C	D
dBA	49,0	45,0	41,0

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

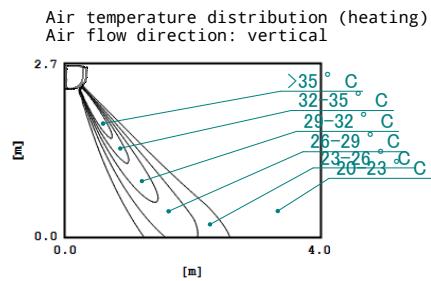
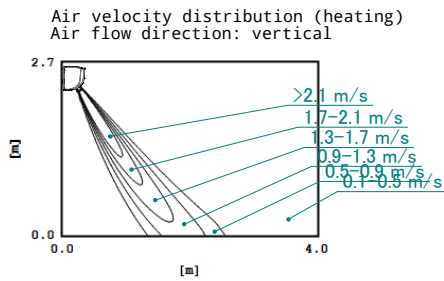
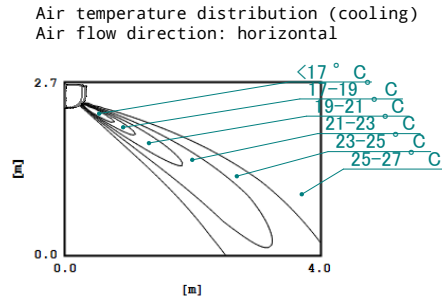
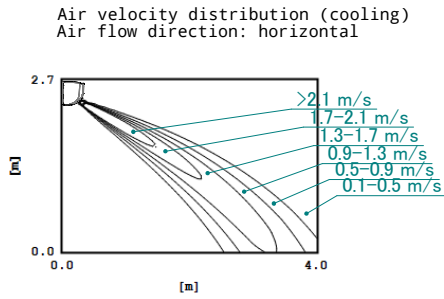
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10 Air flow patterns

10 - 1 Air flow pattern - Cooling and Heating

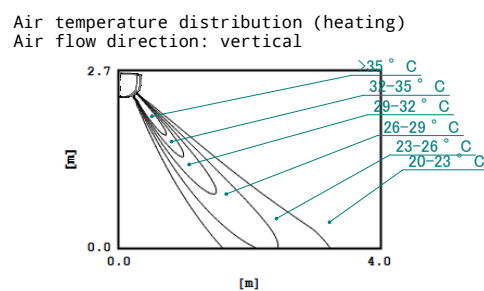
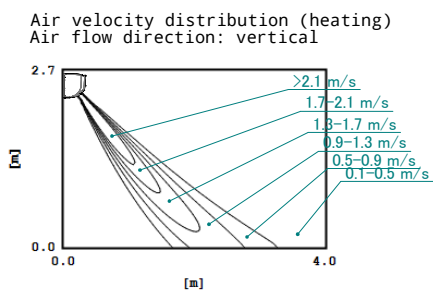
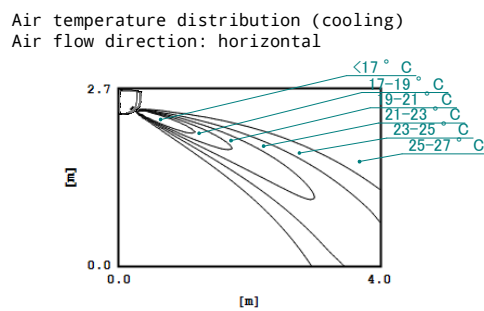
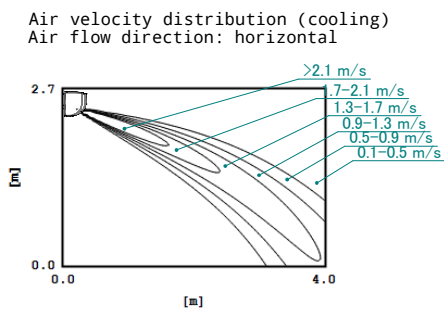
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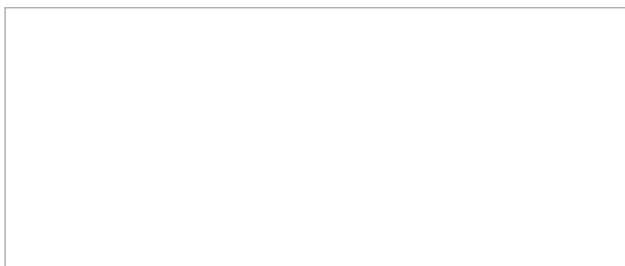


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