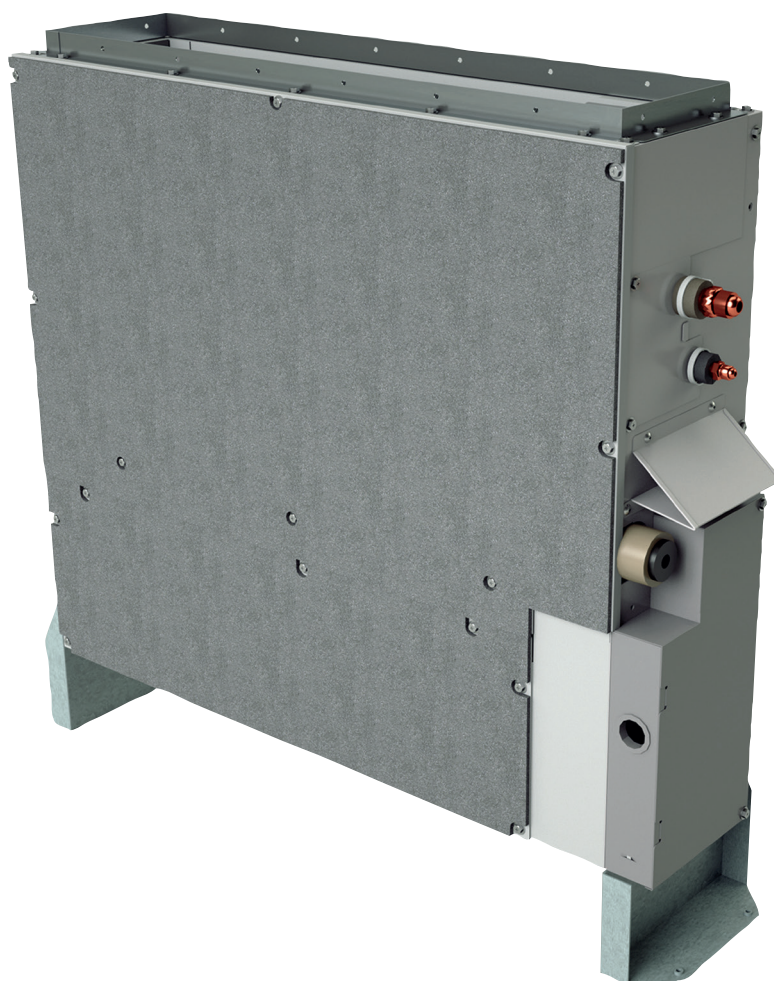


Concealed floor standing unit Air Conditioning Technical Data FNA-A9



FNA25A2VEB9
FNA35A2VEB9
FNA50A2VEB9
FNA60A2VEB9

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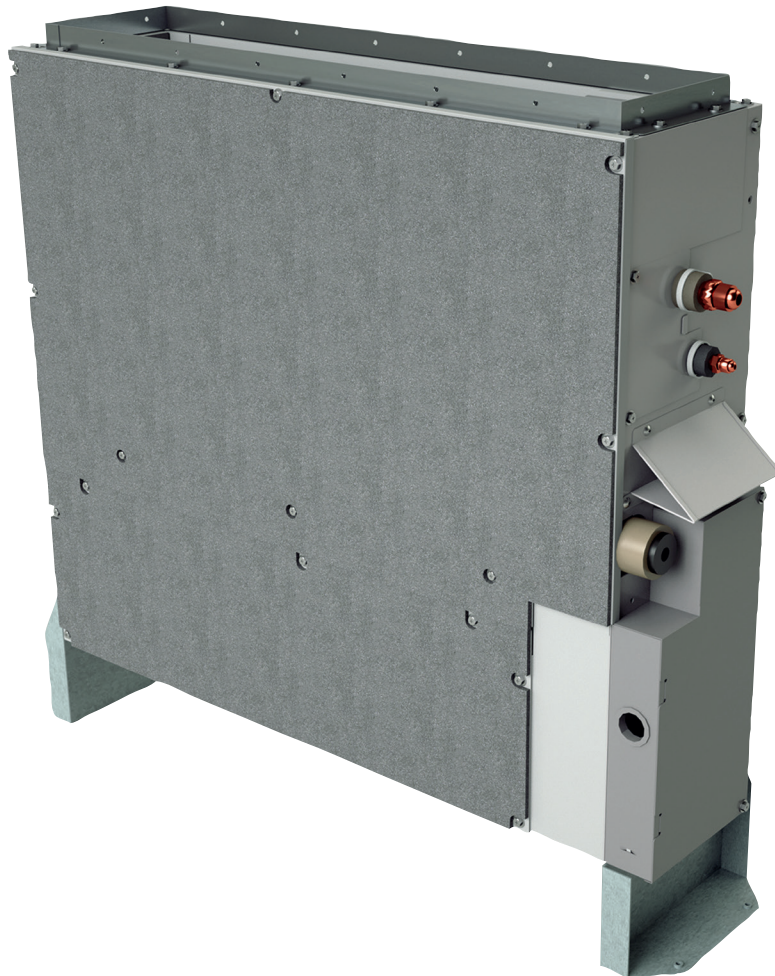
1 Features

1 - 1 FNA-A9

Designed to be concealed in walls

1

- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › 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
- › Requires very little installation space as the depth is only 200mm
- › Its low height (620 mm) enables the unit to fit perfectly beneath a window
- › High ESP allows flexible installation



Infrastructure cooling



Onecta app (optional)



Home leave operation



Fan only



Auto cooling-heating changeover



Fan speed steps (3 steps)



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Twin/triple/double twin application



Multi model application



VRV for residential application

2 Specifications

1 - 1 FNA-A9

Technical specifications					FNA25A9	FNA35A9	FNA50A9	FNA60A9
Casing	Colour				Unpainted			
	Material				Galvanised steel plate			
Dimensions	Unit	Height	mm		620 (I) / 720			
		Width	mm		790	1,190		
		Depth	mm		200			
	Packed unit	Height	mm		265			
		Width	mm		925	1,325		
		Depth	mm		885			
Weight	Unit	kg		23.0	30.0			
	Packed unit	kg		27	35			
Heat exchanger	Inside length				500	900		
	Rows	Quantity		3	2			
	Fin pitch				1.50			
	Passes	Quantity		2	5			
	Face area				0.126	0.227		
	Stages	Quantity		12				
	Empty tubeplate hole	Quantity		8	0			
	Tube type				7.0 Hi-XD			
	Fin Type				Cross fin coil			
	Fan	Model				QD 13A 1AH/QD 13A1BH		
Type				Sirocco fan				
Quantity				2	4			
Air flow rate		Cooling	High	m³/min	8.7	16.0		
			Nom.	m³/min	8.0	14.8		
			Low	m³/min	7.3	13.5		
		Heating	High	m³/min	8.7	16.0		
			Nom.	m³/min	8.0	14.8		
			Low	m³/min	7.3	13.5		
External static pressure		High	Pa	48	49			
	Nom.	Pa	30	40				
Fan motor	Quantity				1			
	Model				KFD-280-44-8A		KFD-280-65-8A	
	Speed	Steps		3				
		Cooling	High	rpm	1,270	1,280		
		Heating	High	rpm	1,270	1,280		
	Output	Rated		W	44	65		
Sound power level	Cooling		dBA	53.0	56.0			
Sound pressure level	Cooling	High	dBA	33.0	36.0			
		Medium	dBA	31.0	33.0			
		Low	dBA	28.0	30.0			
	Heating	High	dBA	33.0	36.0			
		Nom.	dBA	31.0	33.0			
		Low	dBA	28.0	30.0			
Refrigerant	Type				R-410A / R-32			
Piping connections	Sound absorbing insulation				Butyl Rubber			
	Liquid	Type			Flare connection			
		OD	mm		6.35			
	Gas	Type			Flare connection			
		OD	mm		9.52	12.7		
	Drain				VP20 (I.D. 20/O.D. 26)			
Heat insulation				Foamed polystyrene / Foamed polyethylene				
Air filter	Type				Resin net			
Control systems	Infrared remote control				BRC4C65			
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52			
Electrical specifications					FNA25A9	FNA35A9	FNA50A9	FNA60A9
Power supply	Name				VE			
	Phase				1~			
	Frequency				50/60			
	Voltage				220-240/220			

(1)Including installation legs |

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

3 Safety device settings

3 - 1 Safety Device Settings

FNA25-60A9

3

Safety devices		FNA25-60A2VEB(9)
PCB fuse		250V, 3.15A
PCB fuse (fan driver)		---
Fan motor overcurrent protection	Nominal	1.3A
Fan motor thermal protector	Maximum	125°C

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Options

4 - 1 Options

FNA-A9

	Optional equipment	Part name	Availability
			FNA25A2VEB(9) FNA35A2VEB(9) FNA50A2VEB(9) FNA60A2VEB(9)
Individual control systems	Wired remote control	BRC1D52	X
		BRC1E53A7 (4)	X
		BRC1E53B7 (5)	X
		BRC1E53C7 (6)(7), BRC1H51(9)W/S/K	X
		BRC1H52W/S/K (9)	X
	Simplified remote control for hotel use	BRC2E52C7 (3) (7)	X
	Stylish remote control	BRC1E52A, BRC1E52B	X
	Remote control for hotel use	BRC3E52C7 (3)	X
Centralised control systems	Wireless remote control	BRC4C65	X
	Wi-Fi adaptor for smartphones	BRP069A81 (8)	X
	Central remote control	DCS302CA51 DCS302CA61 (1)	X
	Unified ON/OFF controller	DCS301BA51 DCS301BA61 (1)	X
	Schedule timer	DST301BA51 DST301BA61 (1)	X
	Residential central remote control	DCS303A51 (1) (2)	X
Other options	Adaptor for wiring	KRP1B56	X
	Wiring adaptor for electrical appendices	KRP4A54	X
	Remote sensor	KRCS01-4B	X
	Electrical box with earth terminal (-2- blocks)	KJB212AA	X
	Electrical box with earth terminal (-3- blocks)	KJB311AA	X
	Noise filter (for electromagnetic interface only)	KEK26-1A	X

Notes

(1) : For Daikin Middle East only.

(2) : For residential use only. Cannot be used with other centralised control equipment.

(3) : Included languages are:

Language pack -1-: English, German, French, Dutch, Spanish, Italian, and Portuguese.

With PC cable -EKPCCAB3- 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.

(4) : Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.

(5) : Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.

(6) : Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.

(7) : Language pack -3- of controller -BRC1E53C7- is different from that of controller -BRC2/3E52C7-.

(8) : Only possible in combination with wired or wireless remote control (e.g. -BRC1E*, BRC1H*, BRC7FA*.)

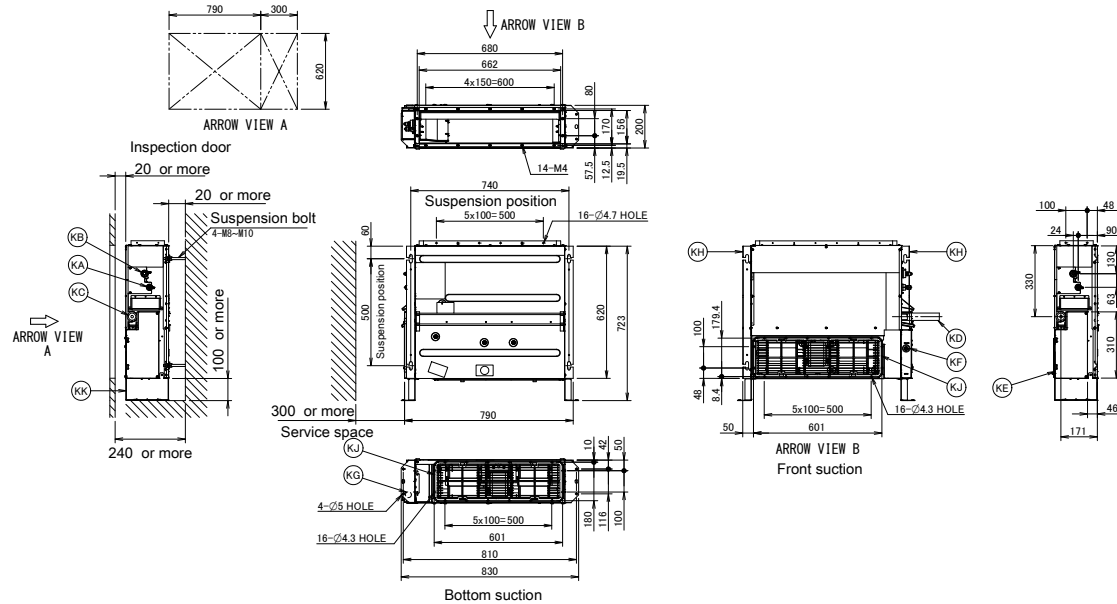
(9) : Mandatory in case of using R32 refrigerant and decreased floor area.

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5 Dimensional drawings

5 - 1 Dimensional Drawings

FNA25-35A9



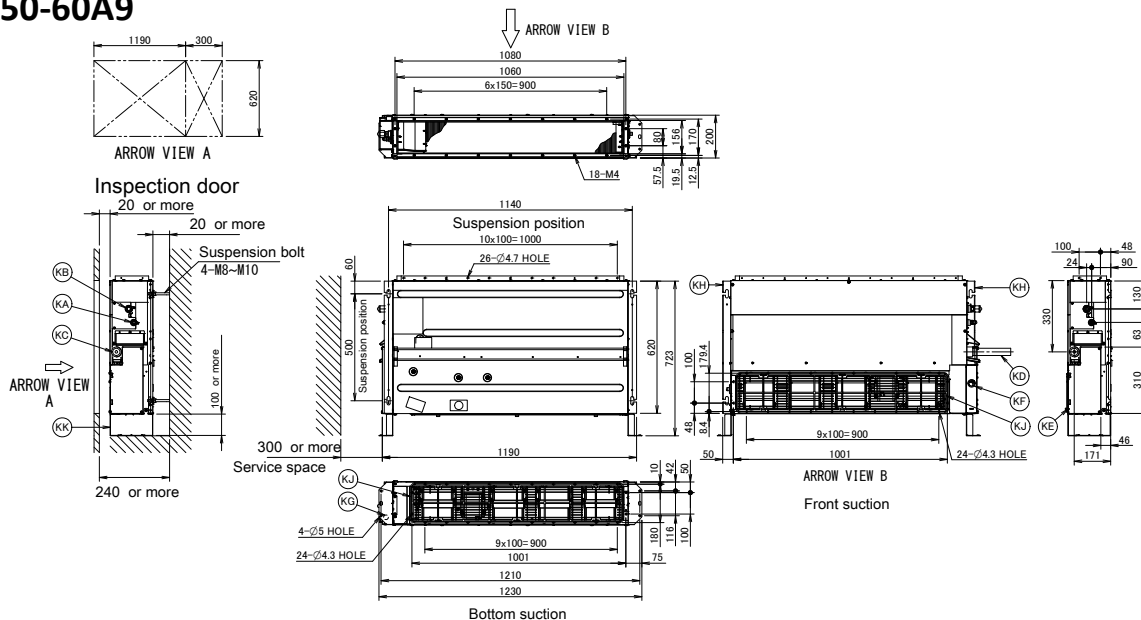
Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø9.50 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

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FNA50-60A9



Item	Name	Description
KA	Liquid pipe connection port	Ø6.4 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes

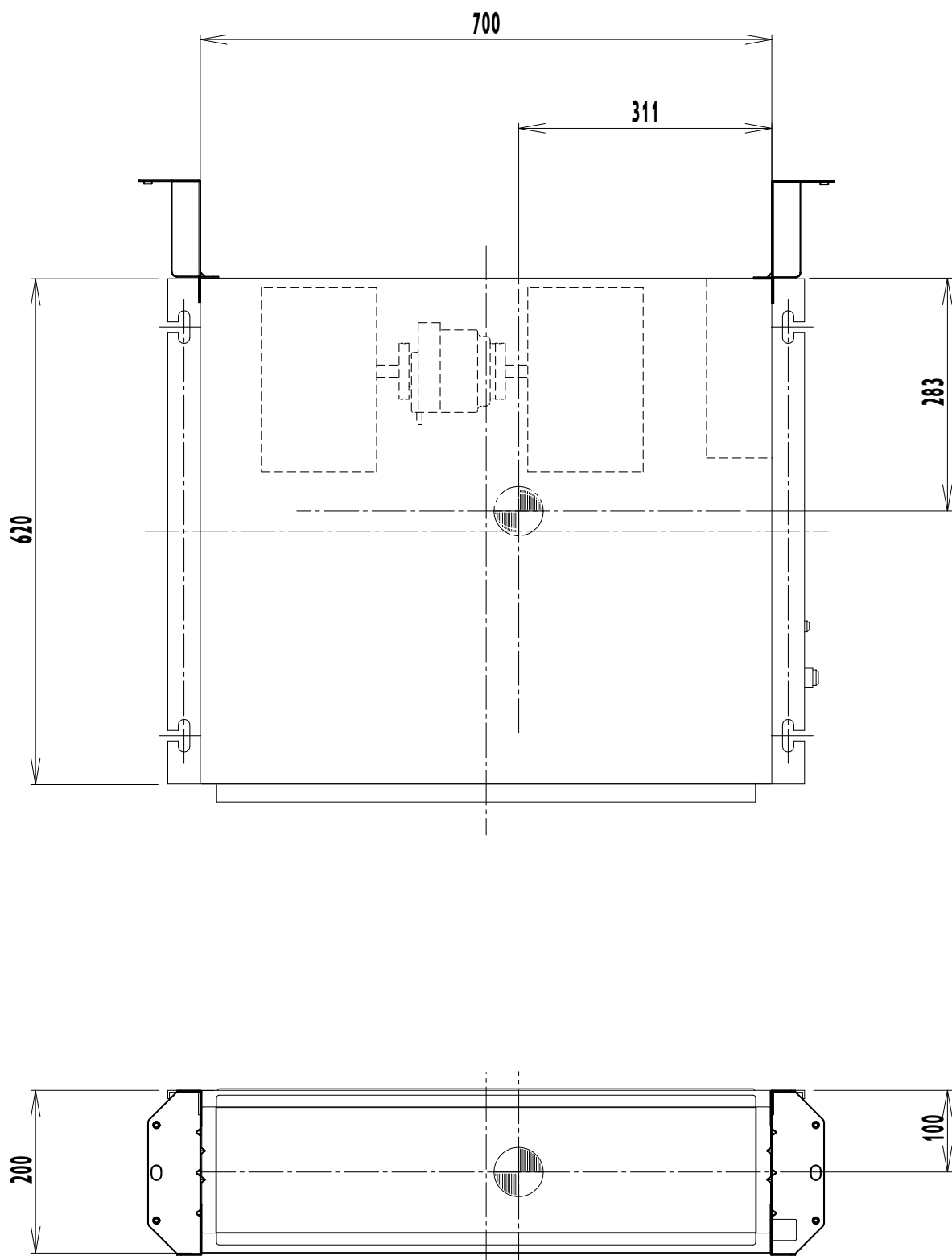
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

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6 Centre of gravity

6 - 1 Centre of Gravity

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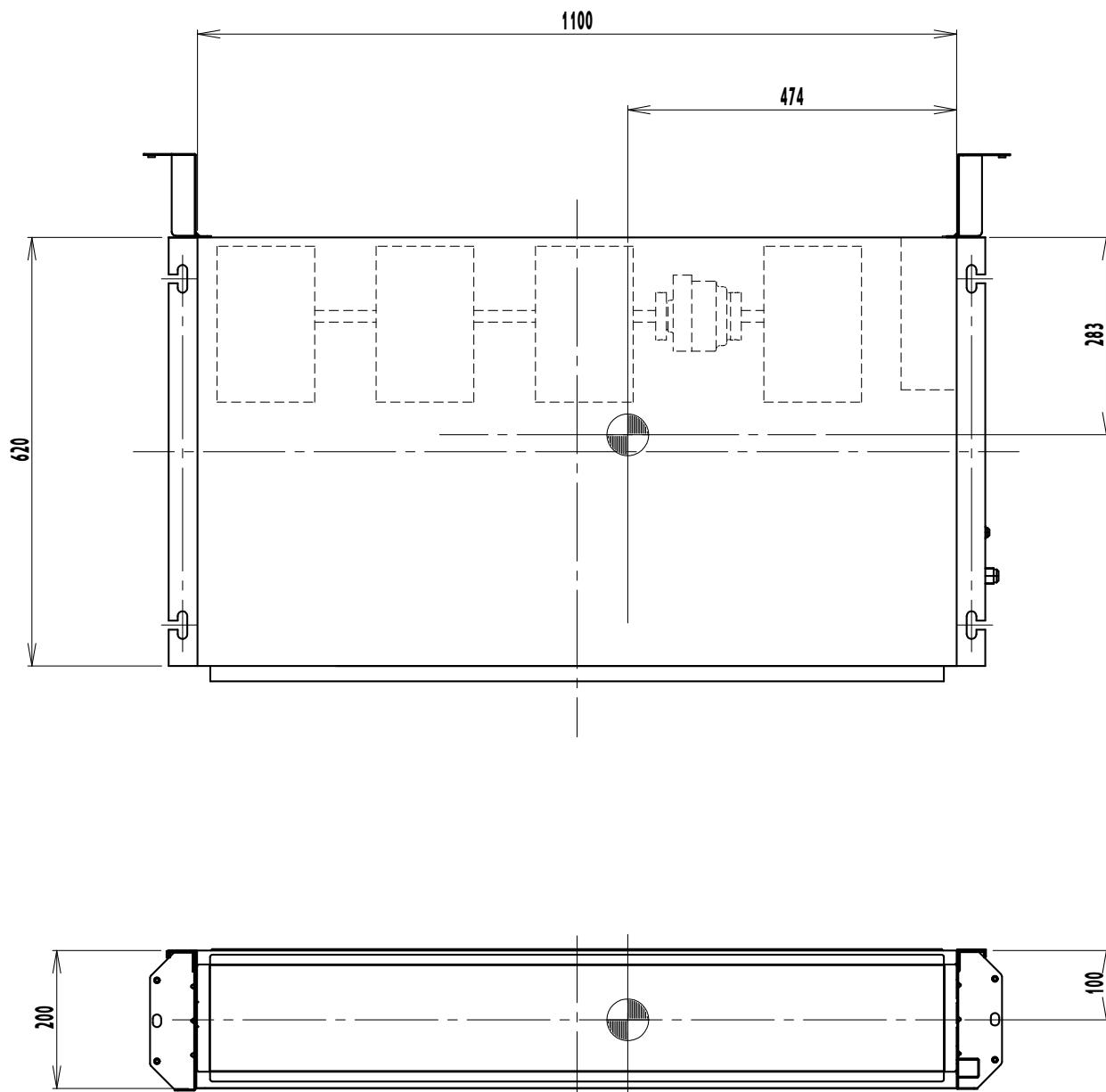
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6 Centre of gravity

6 - 1 Centre of Gravity

FNA50-60A9

6



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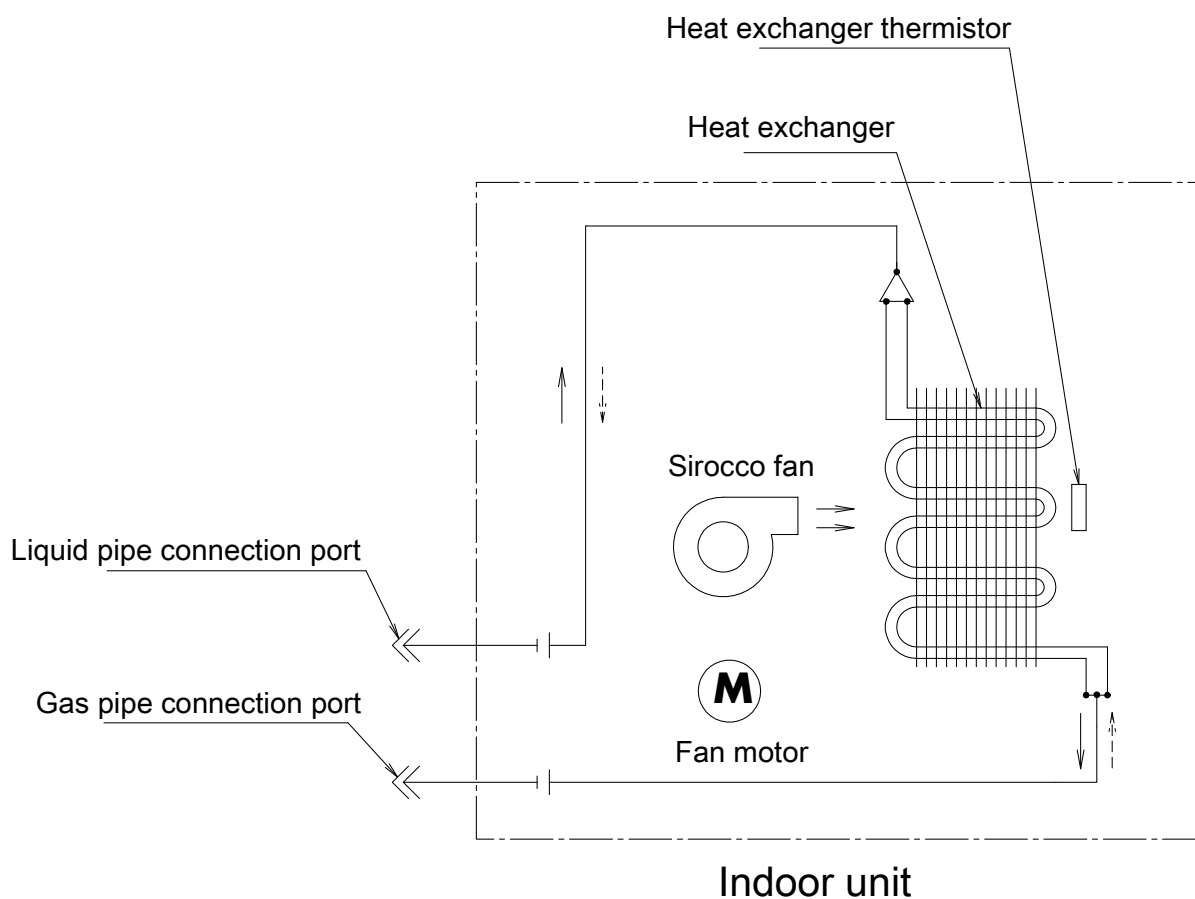
7 Piping diagrams

7 - 1 Piping Diagrams

FNA25-60A9

Piping connections Ø

Model	Gas pipe	Liquid pipe
FNA25A2VEB9	Ø 9.5	Ø 6.4
FNA35A2VEB9	Ø 9.5	Ø 6.4
FNA50A2VEB9	Ø 12.7	Ø 6.4
FNA60A2VEB9	Ø 12.7	Ø 6.4



Refrigerant flow

Cooling ———→

Heating - - - - -→

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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

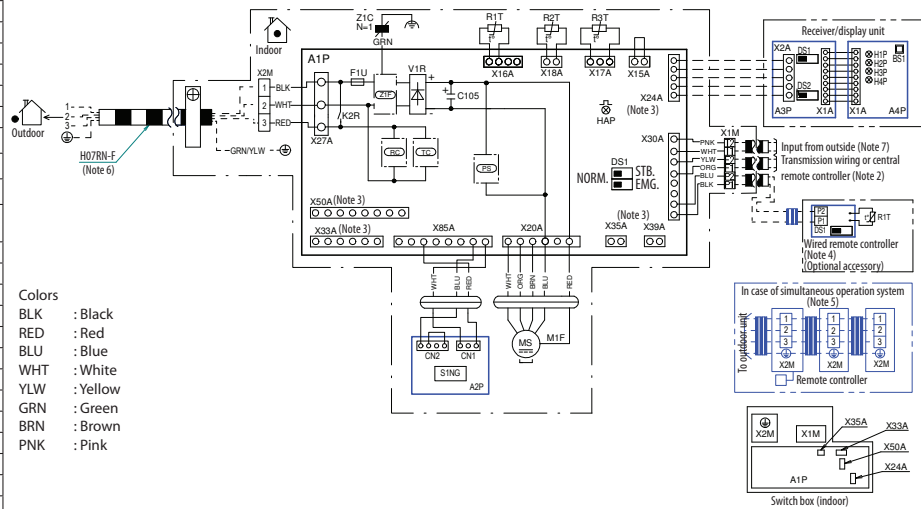
8

FNA-A9

Indoor unit	
A1P	Printed circuit board
A2P	Gas sensor board
C105	Capacitor
F1U	Fuse (F, 3,15A, 250V)
K2R	Magnetic relay
PS	Power supply circuit
RC	Receiving circuit
TC	Transmission circuit
HAP	Light emitting diode (service monitor-green)
M1F	Motor (fan)
R1T	Thermistor (air)
R2T, R3T	Thermistor (coil)
DS1	Selector switch (emergency)
V1R	Diode bridge
X1M	Terminal strip (control)
X2M	Terminal strip (power supply)
Z1C	Ferrite core (noise filter)
Z1F	Noise filter
Receiver/display unit	
A3P	Printed circuit board
A4P	Printed circuit board
H1P	Light emitting diode (on-red)
H2P	Light emitting diode (filter sign-red)
H3P	Light emitting diode (timer-green)
H4P	Light emitting diode (defrost-orange)
DS1	Selector switch (main/sub)
BS1	Push button (on/off)
Connector for optional parts	
X24A	Connector (wireless remote controller)
X33A	Connector (adaptor for wiring)
X35A	Connector (power supply for adaptor)
X50A	Connector (wireless adaptor)
Wired remote controller	
R1T	Thermistor (air)
DS1	Select switch (emergency)

Colors
 BLK : Black
 RED : Red
 BLU : Blue
 WHT : White
 YLW : Yellow
 GRN : Green
 BRN : Brown
 PNK : Pink

Wiring diagram



NOTES

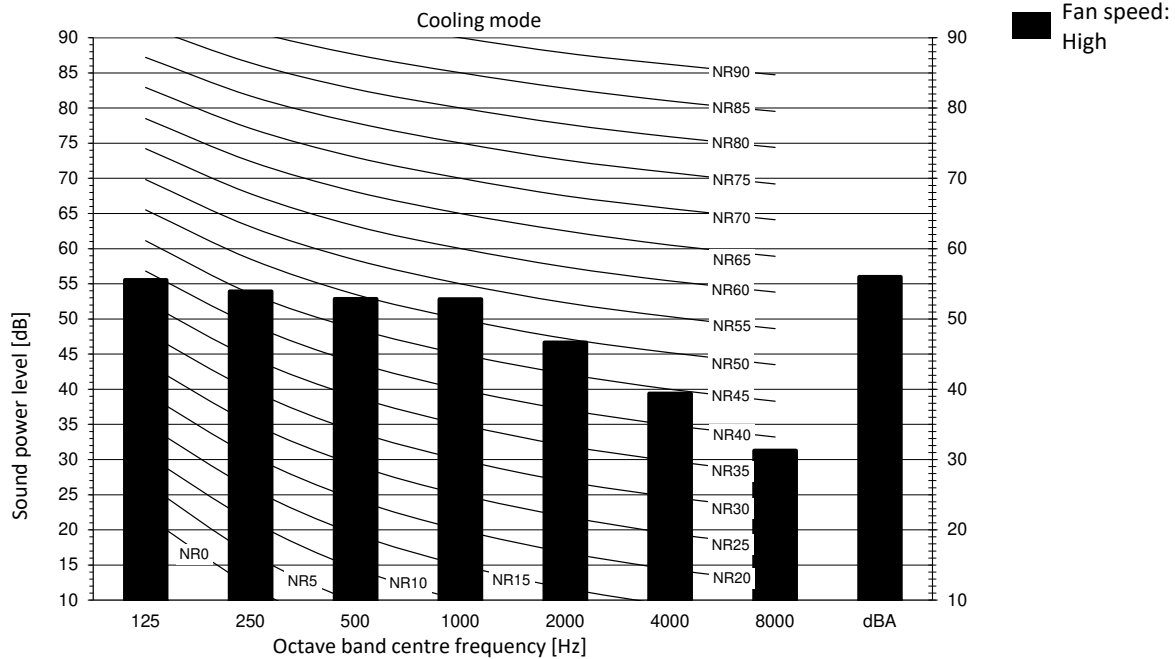
1. : Terminal block
 : Connector
 : Field wiring
 : Wire clamp
 : Protective earth (screw)
2. In case of using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. X24A, X33A, X35A, X39A, X50A Are connected when the optional accessories are being used.
4. For change over of brc1e type main/sub refer to manual attached to remote controller.
5. Show only in case of protected pipes. Use H07RN-F in case of no protection.
6. For detail, see wiring diagram attached to outdoor unit.
7. When connecting the input wires from outside, forced off or on/off control operation can be selected by the remote controller, see manual for detail.

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9 Sound data

9 - 1 Sound Power Spectrum

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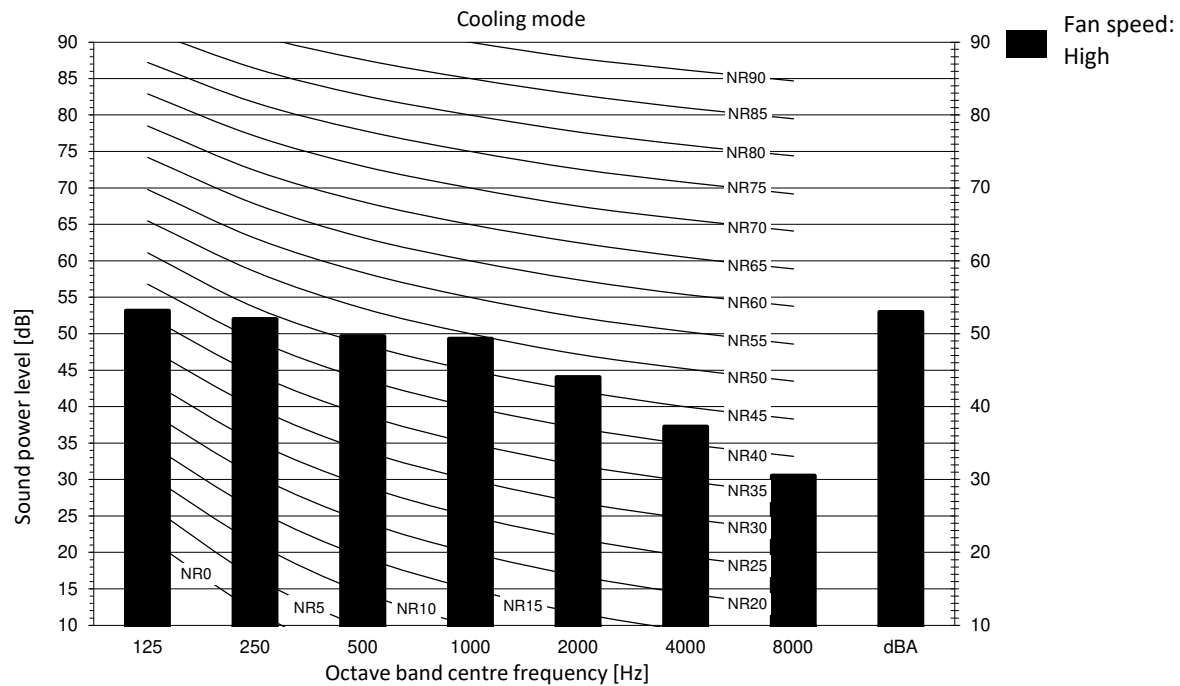


Notes

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

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FNA25-35A9



Notes

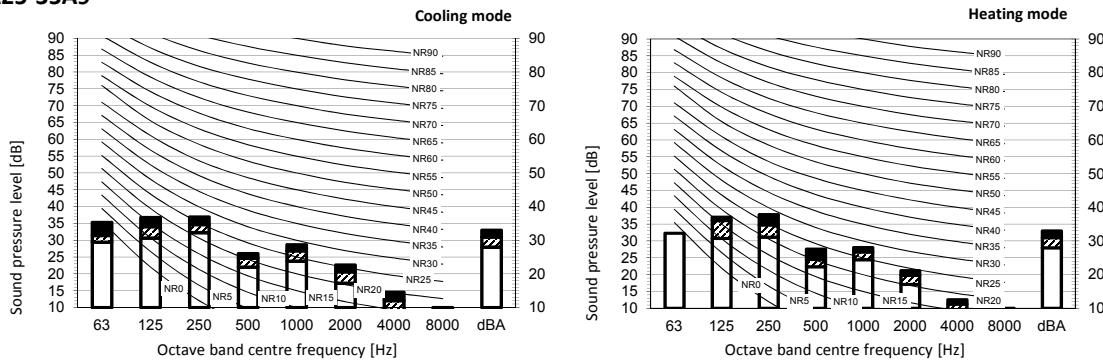
- 1) dBA = A-weighted sound power level (A scale according to IEC).
- 2) Reference acoustic intensity $0\text{dB} = -10\text{E-}6\mu\text{W/m}^2$.
- 3) Measured according to ISO 3744

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9 Sound data

9 - 2 Sound Pressure Spectrum

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Legend

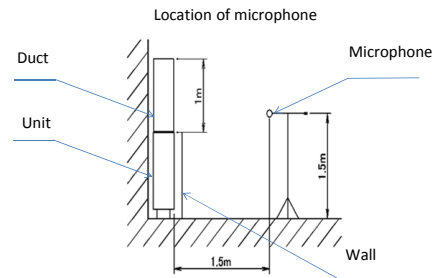
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed

B High
C Medium
D Low

Cooling		Total dB	
A	B	C	D
dBA	33	31	28

Heating		Total dB	
A	B	C	D
dBA	33	31	28

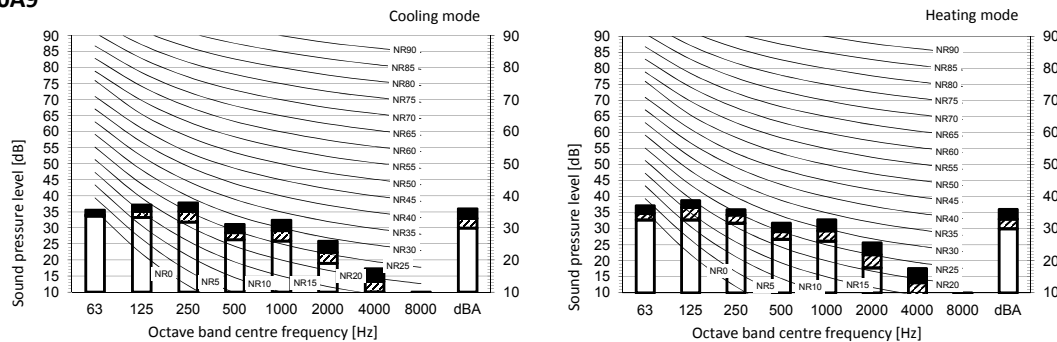


Notes

- 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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FNA50-60A9



Legend

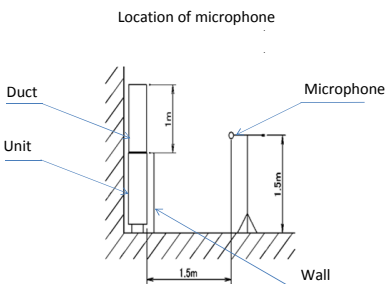
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed

B High
C Medium
D Low

Cooling		Total dB	
A	B	C	D
dBA	36	33	30

Heating		Total dB	
A	B	C	D
dBA	36	33	30



Notes

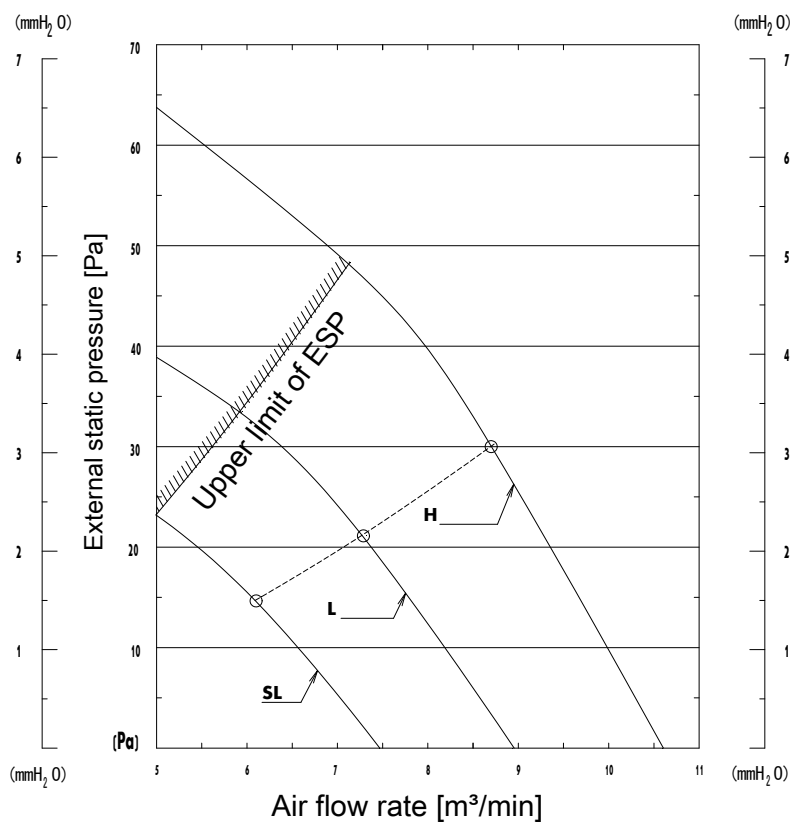
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10 Fan characteristics

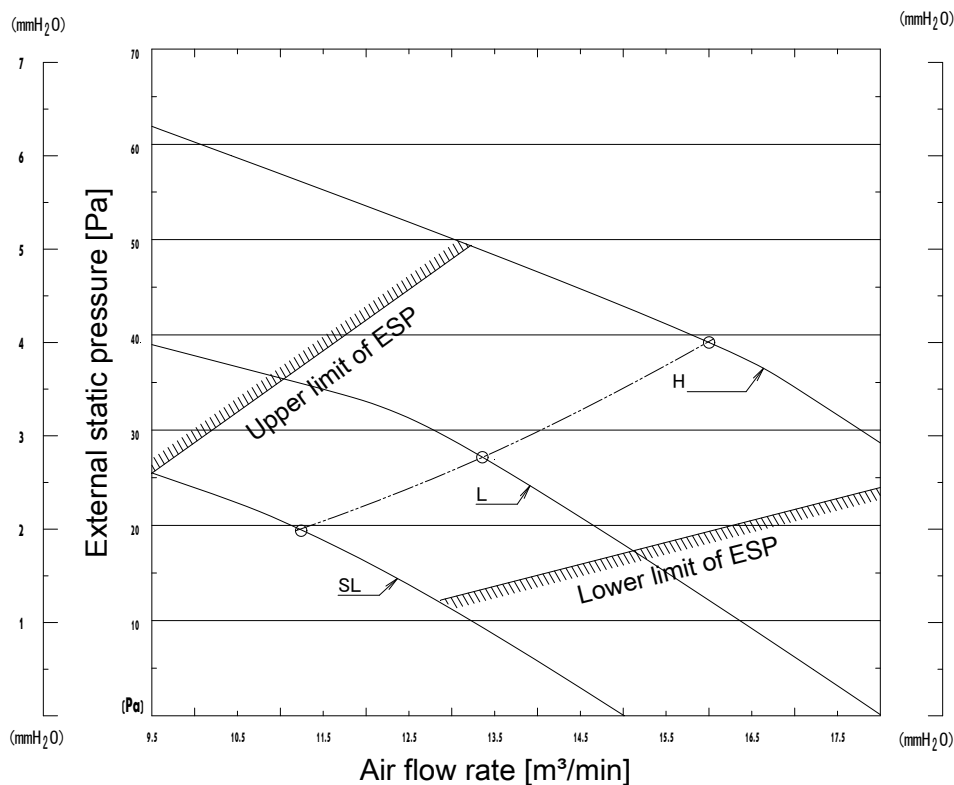
10 - 1 Fan Characteristics

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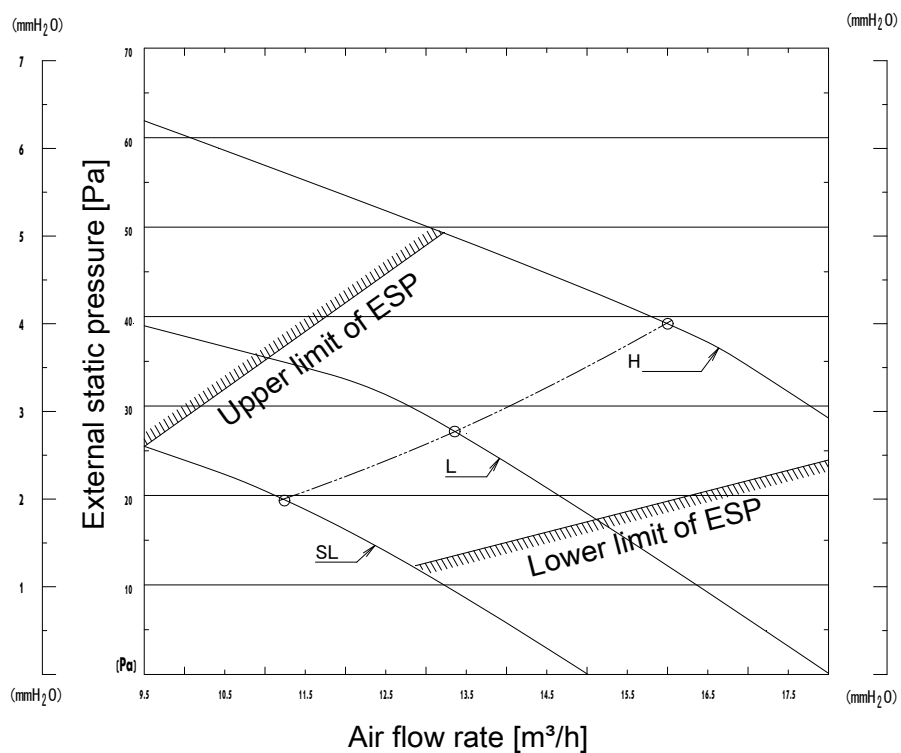


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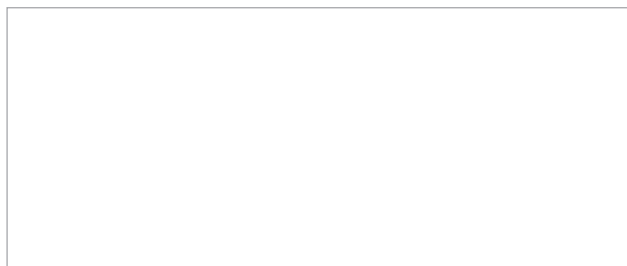
10 Fan characteristics

10 - 1 Fan Characteristics

FNA60A9



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