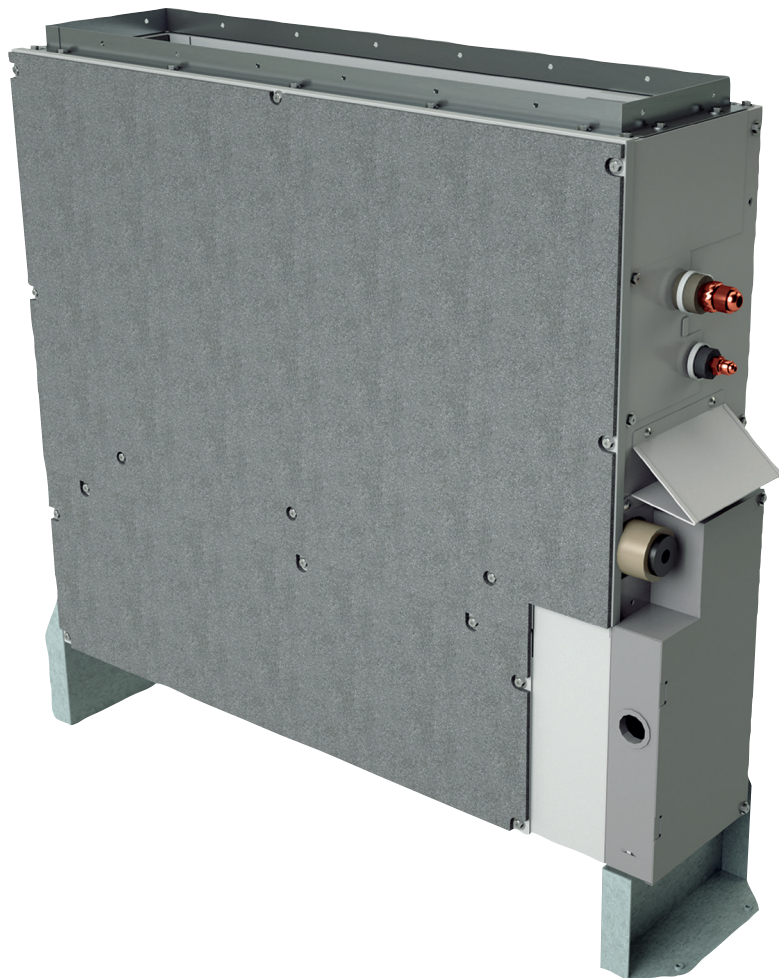


Concealed floor  
standing unit  
Air Conditioning  
Technical Data  
FNA-A9



FNA25A2VEB9  
FNA35A2VEB9  
FNA50A2VEB9  
FNA60A2VEB9



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## FNA-A9

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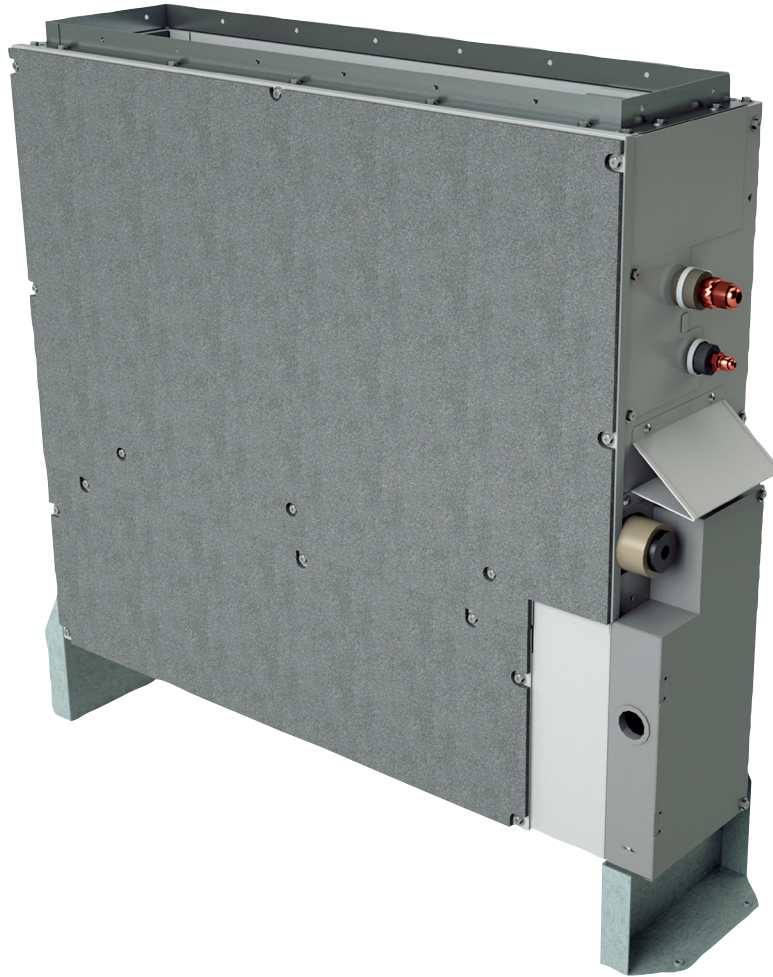
# 1 Features

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 Blueevolution 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 + auto)



Dry programme



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis



Twin/triple/double twin application



Multi model application



VRV for residential application

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FNA25A9	FNA35A9	FNA50A9	FNA60A9	
Casing	Colour	Unpainted						
	Material	Galvanised steel plate						
Dimensions	Unit	Height	mm	620 (1) / 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	mm	500			900		
	Rows	Quantity	3			2		
	Fin pitch	mm	1.50					
	Passes	Quantity	2			5		
	Face area	m <sup>2</sup>	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	m <sup>3</sup> /min	8.7	16.0		
			Nom.	m <sup>3</sup> /min	8.0	14.8		
			Low	m <sup>3</sup> /min	7.3	13.5		
		Heating	High	m <sup>3</sup> /min	8.7	16.0		
			Nom.	m <sup>3</sup> /min	8.0	14.8		
			Low	m <sup>3</sup> /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	dB(A)	53.0	56.0				
Sound pressure level	Cooling	High	dB(A)	33.0	36.0			
		Medium	dB(A)	31.0	33.0			
		Low	dB(A)	28.0	30.0			
	Heating	High	dB(A)	33.0	36.0			
		Nom.	dB(A)	31.0	33.0			
		Low	dB(A)	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	Hz	50/60					
	Voltage	V	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

**3**
**FNA25-60A9**

Safety devices		<b>FNA25-60A2VEB(9)</b>
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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# 4 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	X
		DCS302CA61 (1)	X
	Unified ON/OFF controller	DCS301BA51	X
		DCS301BA61 (1)	X
	Schedule timer	DST301BA51	X
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 -EKPCAB3- 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.

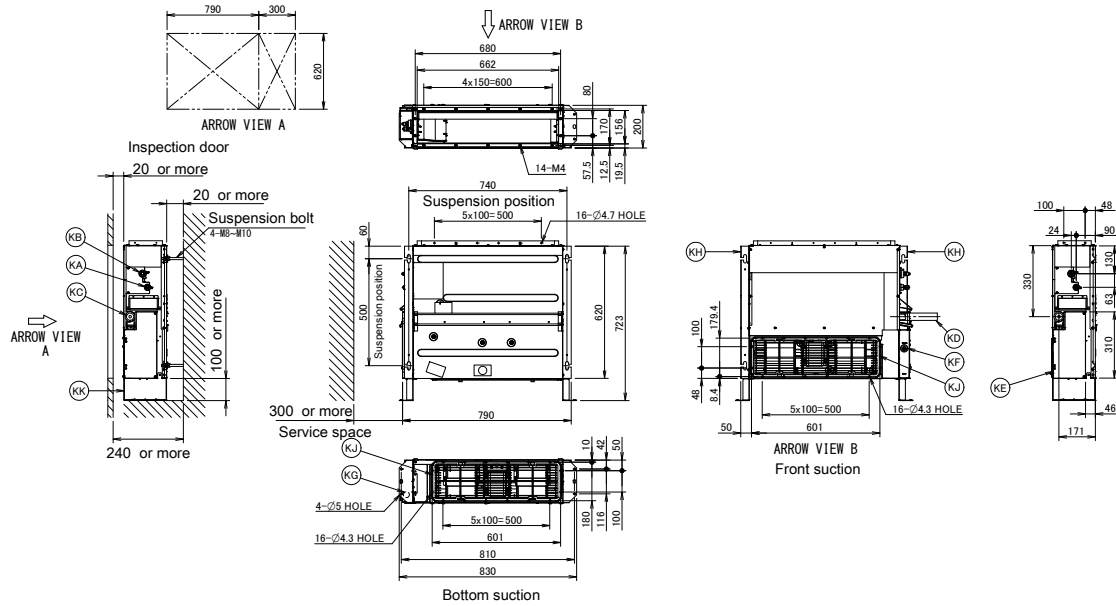
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# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings

5

### FNA25-35A9



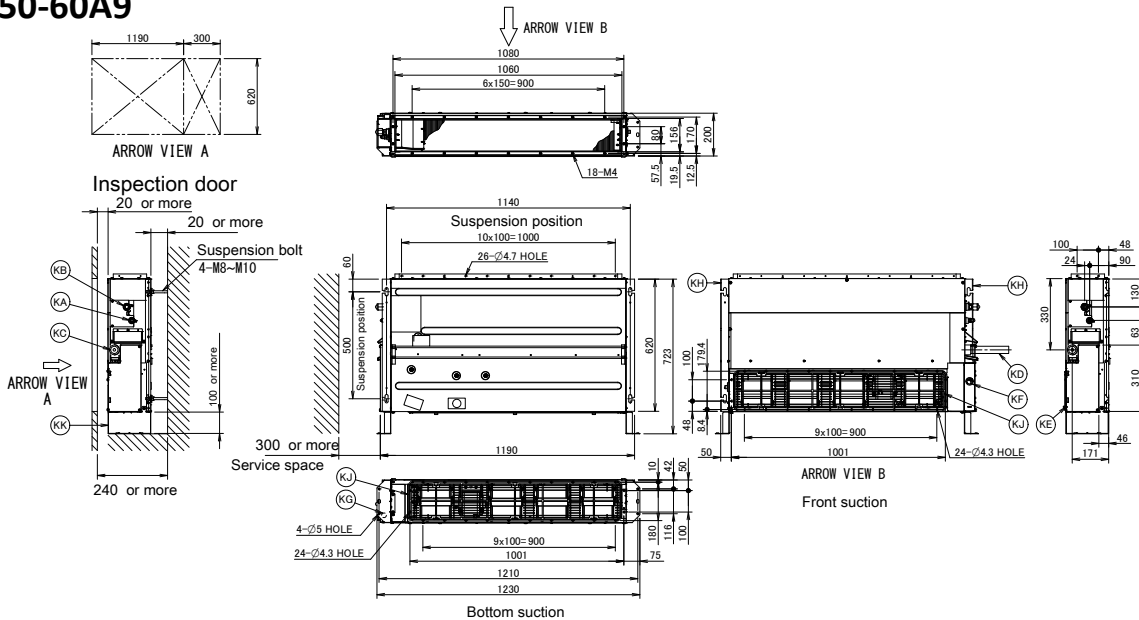
Item	Name	Description
KA	Liquid pipe connection port	∅6.40 flared connection
KB	Gas pipe connection port	∅9.50 flared connection
KC	Drain pipe connection	VP20 (OD ∅26, ID ∅20)
KD	Drain hose	ID ∅25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
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	∅6.4 flared connection
KB	Gas pipe connection port	∅12.70 flared connection
KC	Drain pipe connection	VP20 (OD ∅26, ID ∅20)
KD	Drain hose	ID ∅25
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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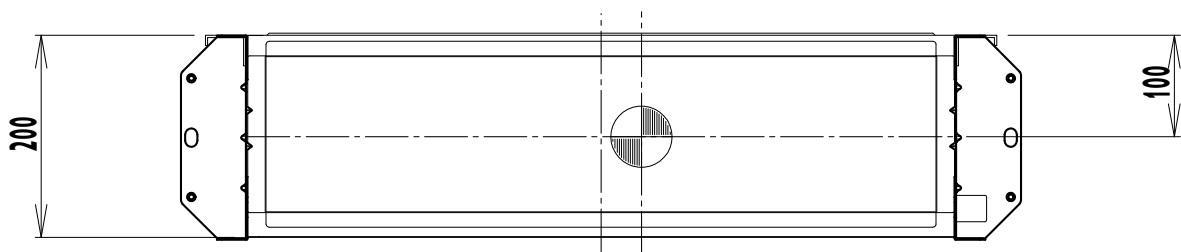
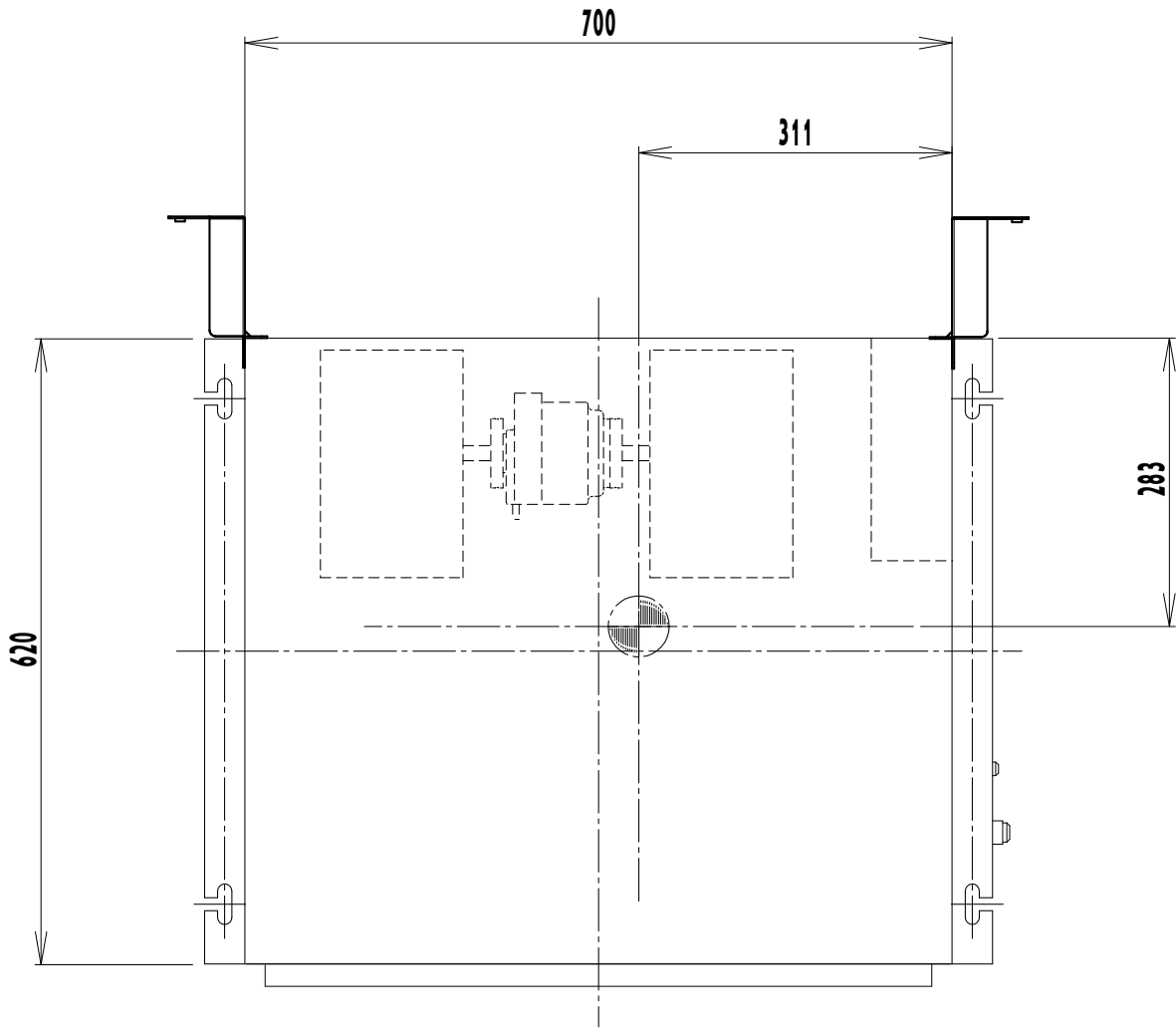
8



# 6 Centre of gravity

## 6 - 1 Centre of Gravity

FNA25-35A9



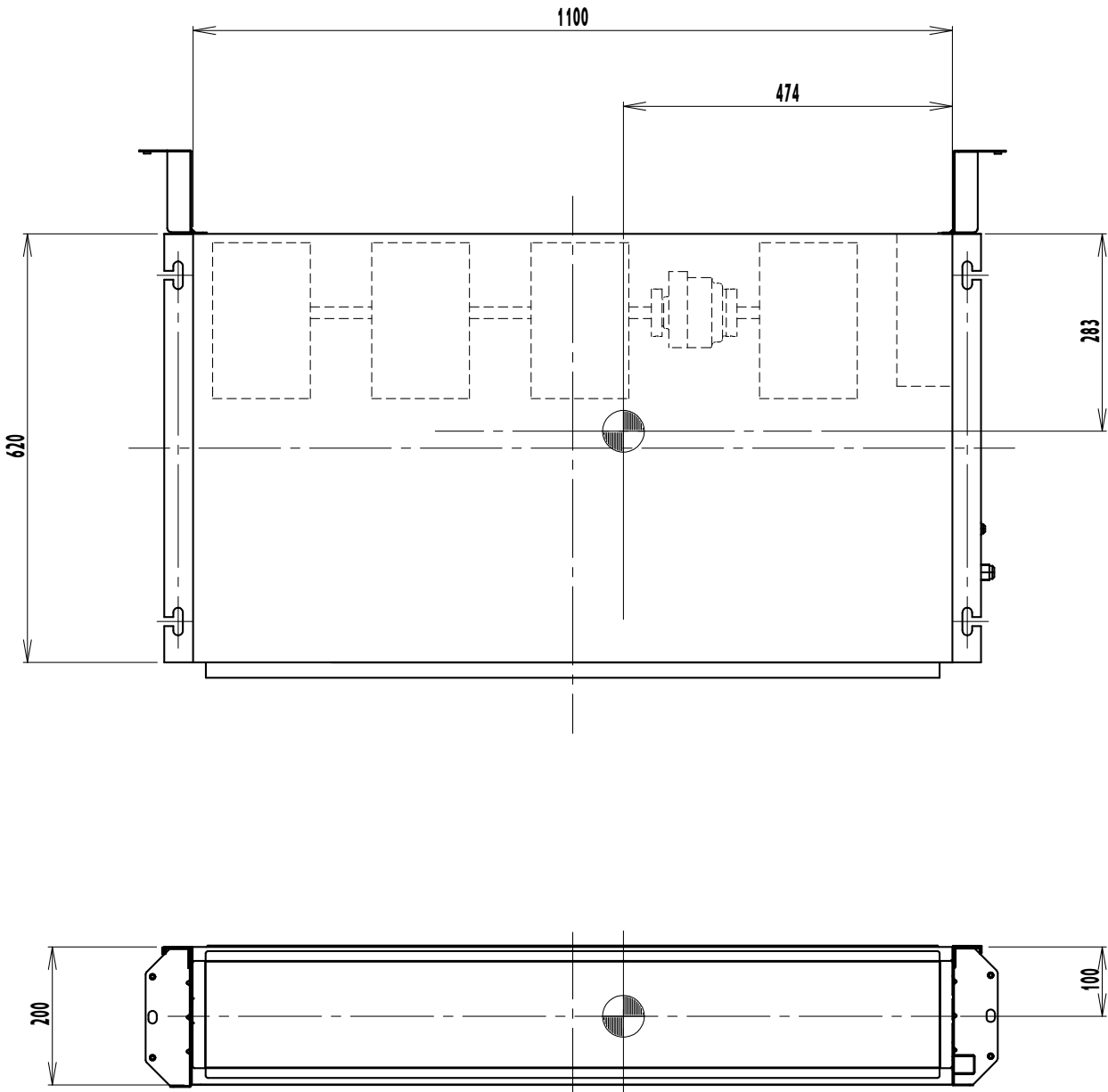
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# 6 Centre of gravity

## 6 - 1 Centre of Gravity

6

FNA50-60A9



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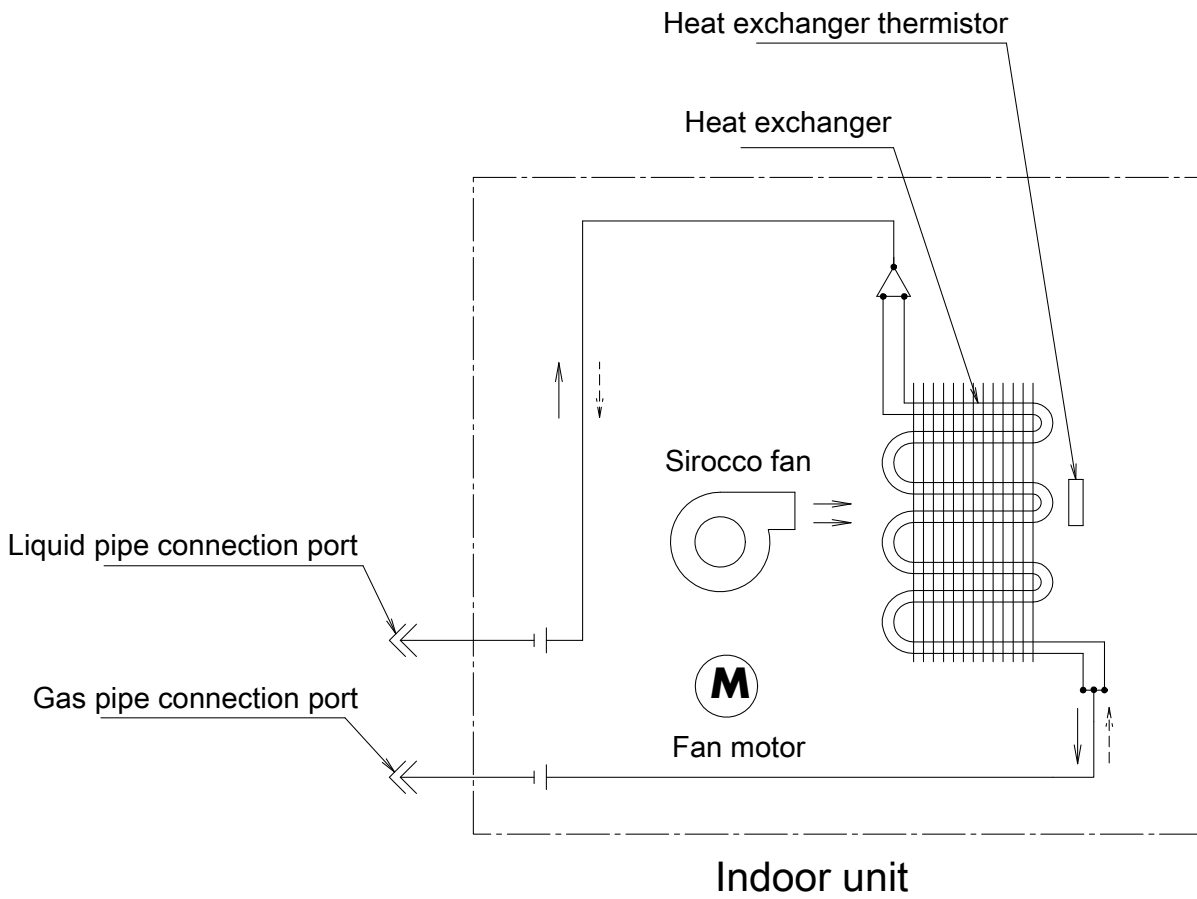
# 7 Piping diagrams

## 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

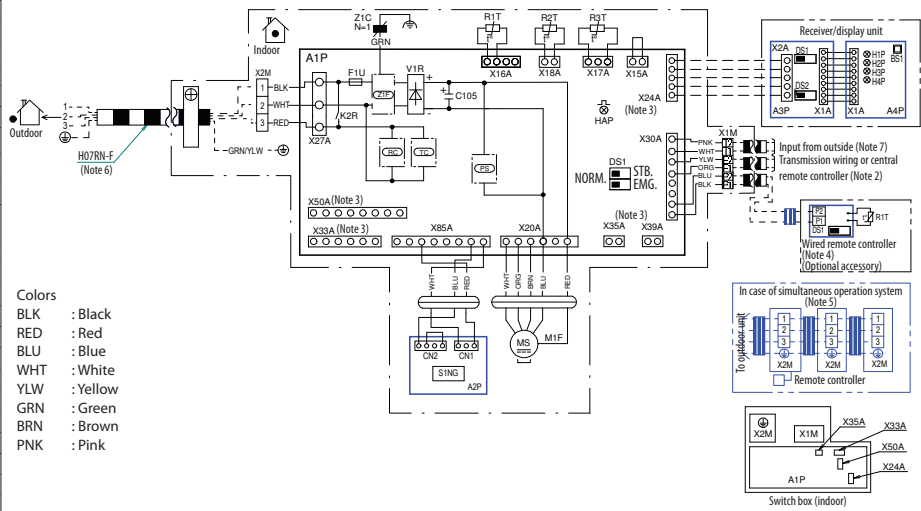
## 8 - 1 Wiring Diagrams - Single Phase

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)
DS2	Selector switch (wireless address set)
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)

**Wiring diagram**



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

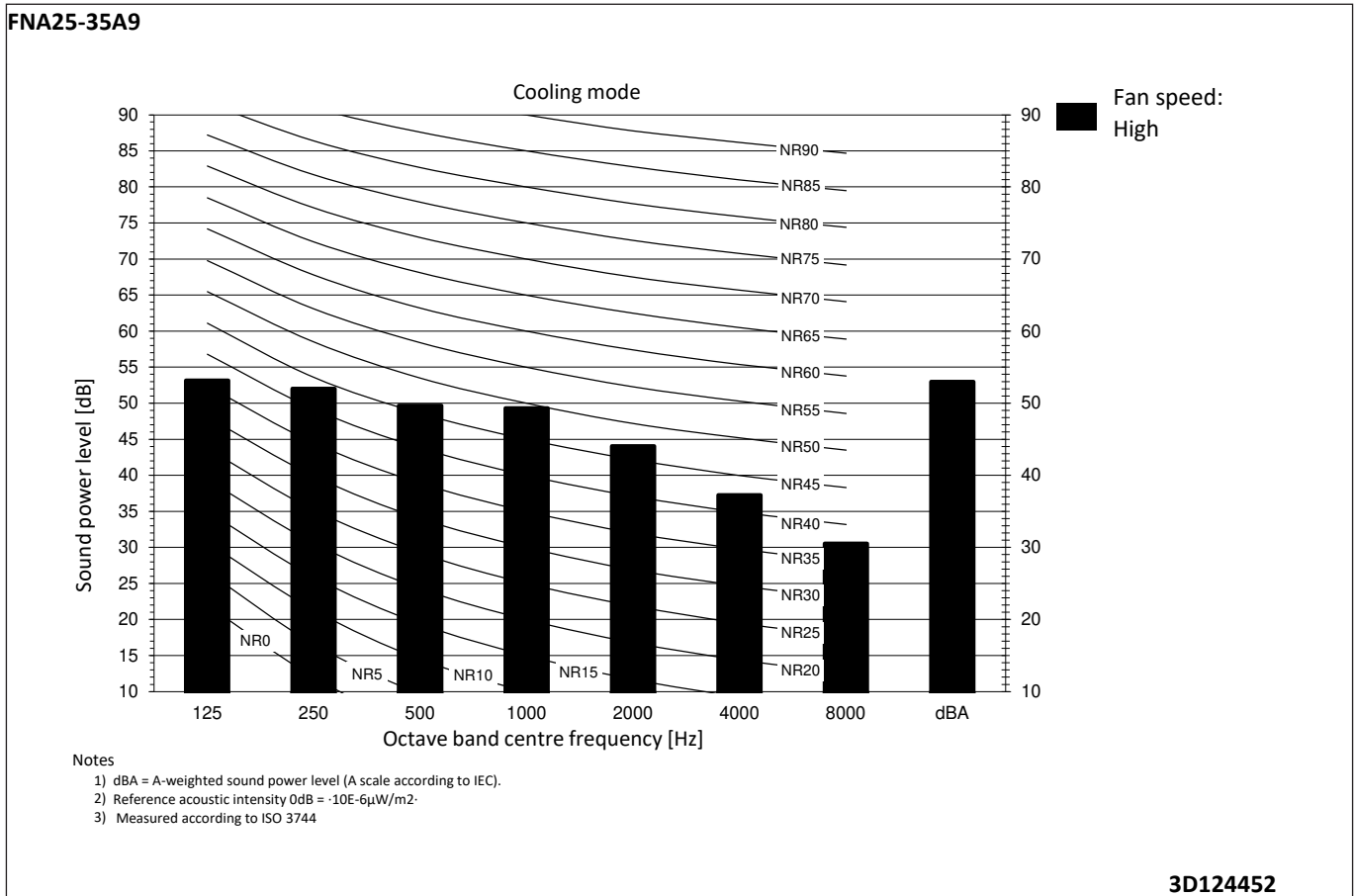
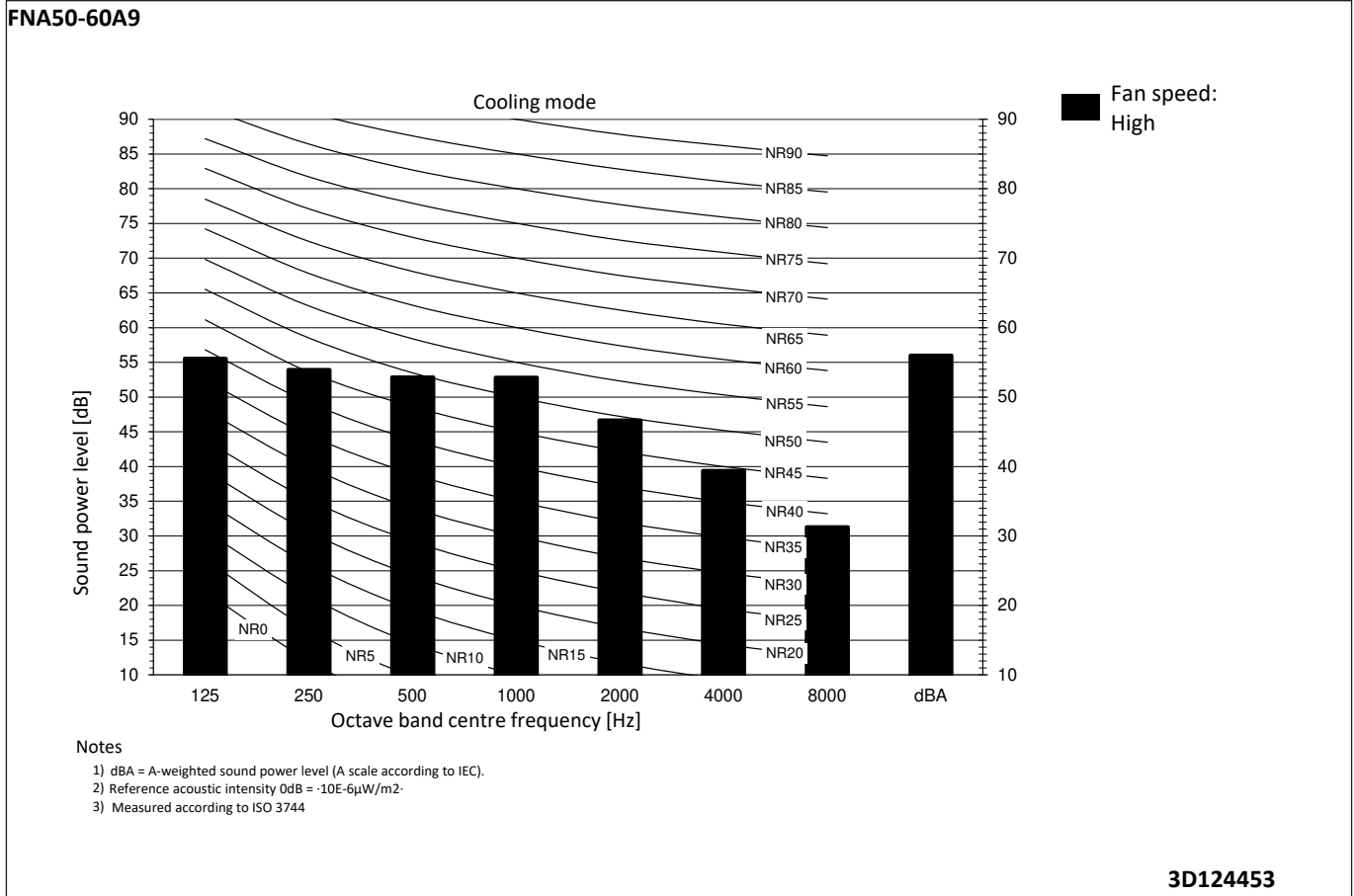
**NOTES**

- □ □ : Terminal block
  - ○ : Connector
  - ■ — ■ — ■ : Field wiring
  - : Wire clamp
  - ⊕ : Protective earth (screw)
- In case of using central remote controller, connect it to the unit in accordance with the attached installation manual.
- X24A, X33A, X35A, X39A, X50A Are connected when the optional accessories are being used.
- For change over of br1c1e type main/sub refer to manual attached to remote controller.
- Show only in case of protected pipes. Use H07RN-F in case of no protection.
- For detail, see wiring diagram attached to outdoor unit.
- 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

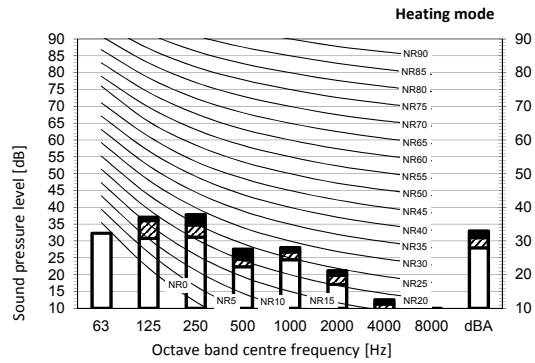
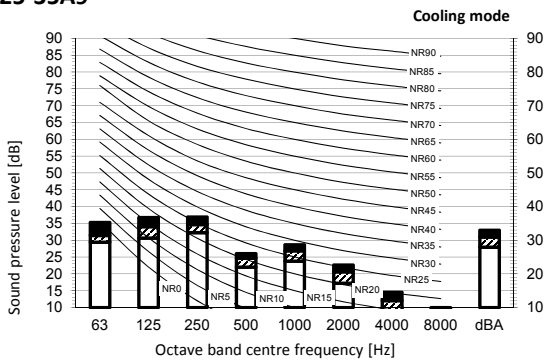


# 9 Sound data

## 9 - 2 Sound Pressure Spectrum

9

### FNA25-35A9



**Legend**

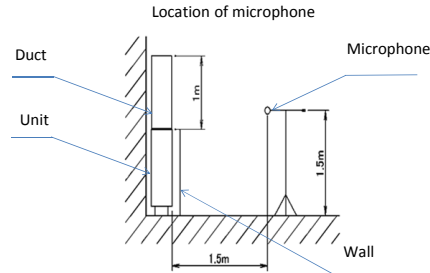
dBA = A-weighted sound pressure level (A scale according to IEC).

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

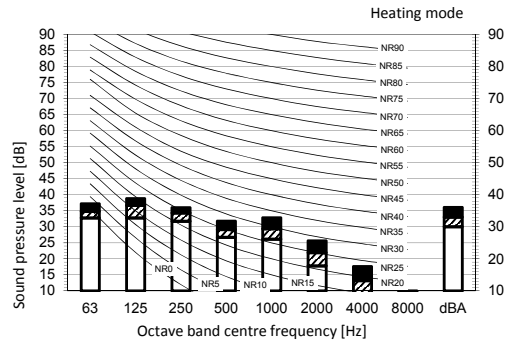
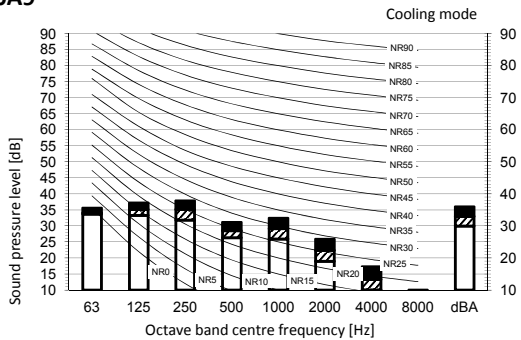


**Notes**

- 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**

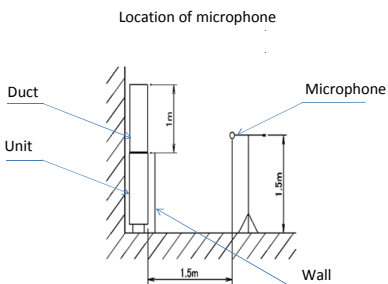
dBA = A-weighted sound pressure level (A scale according to IEC).

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**

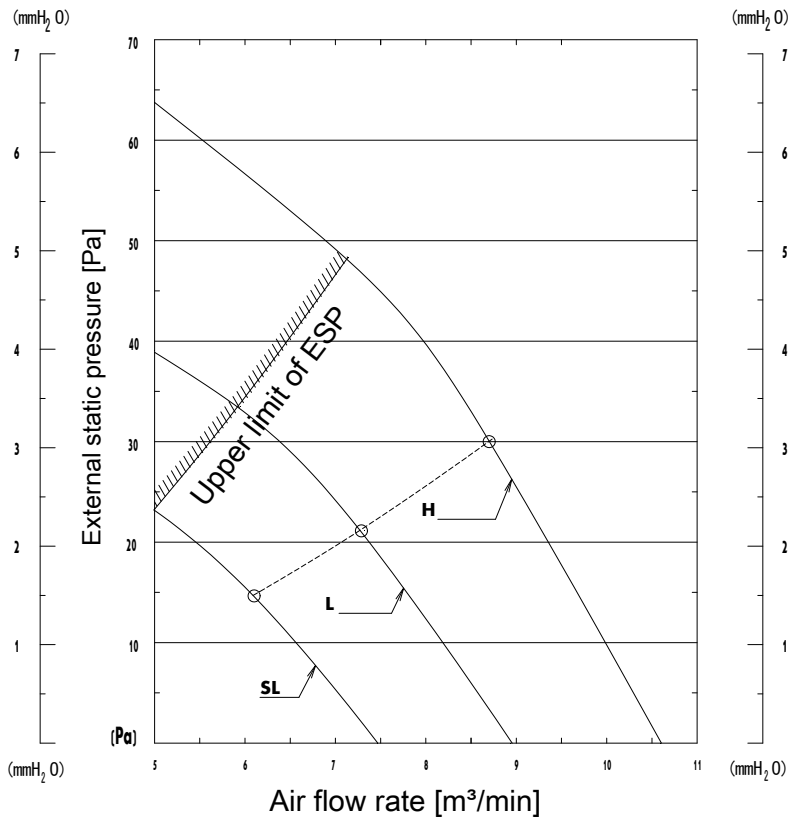
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

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# 10 Fan characteristics

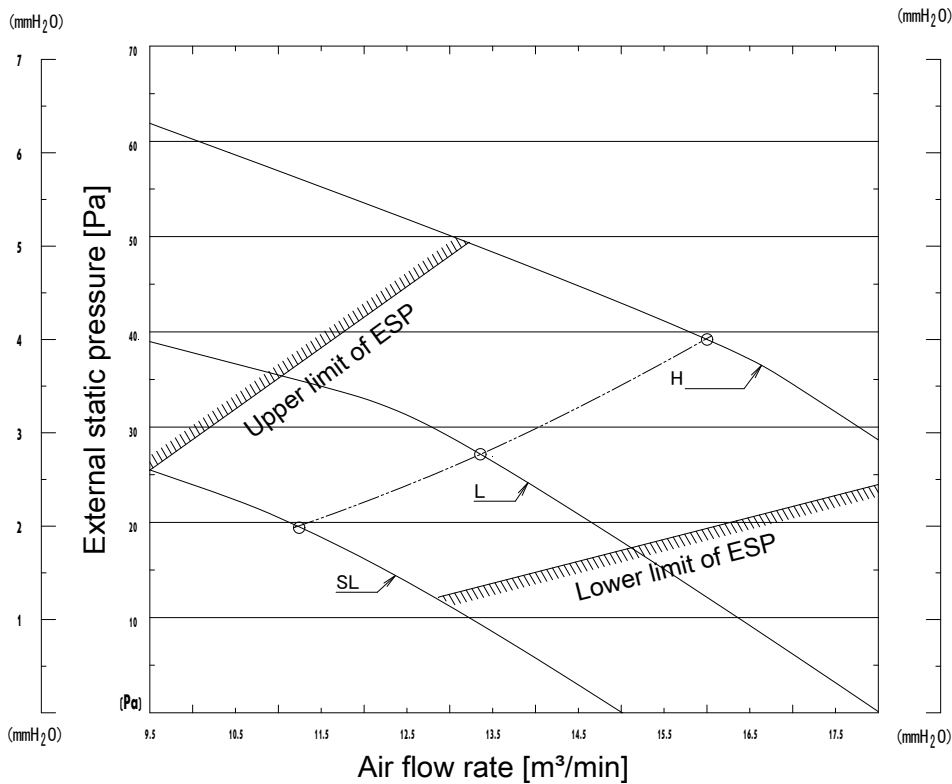
## 10 - 1 Fan Characteristics

### FNA25-35A9



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### FNA50A9



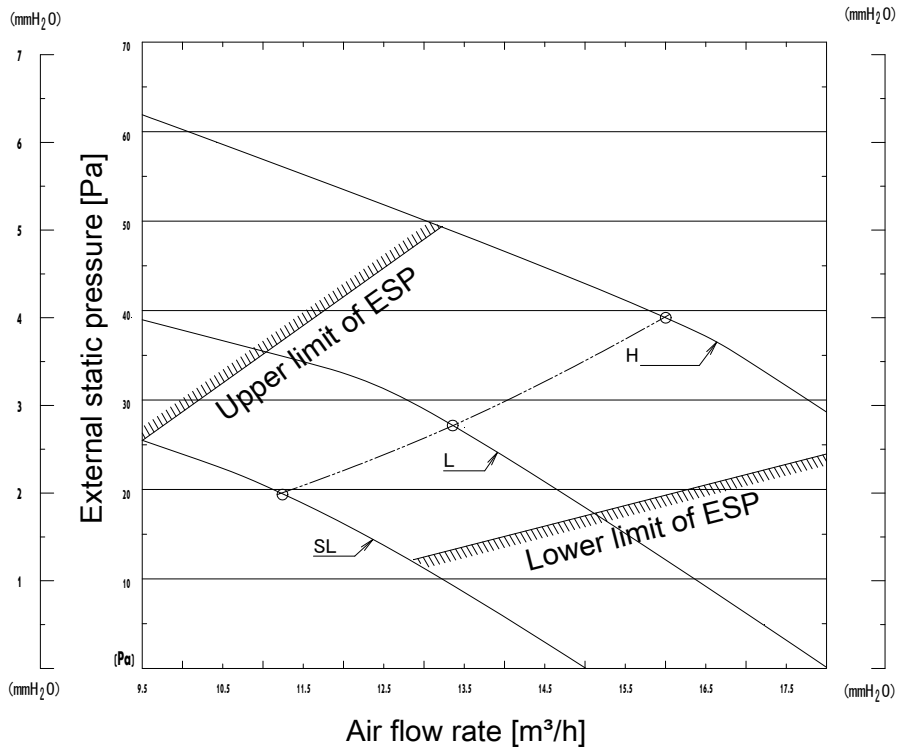
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# 10 Fan characteristics

## 10 - 1 Fan Characteristics

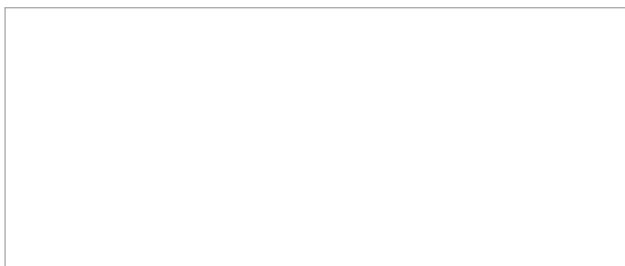
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FNA60A9



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