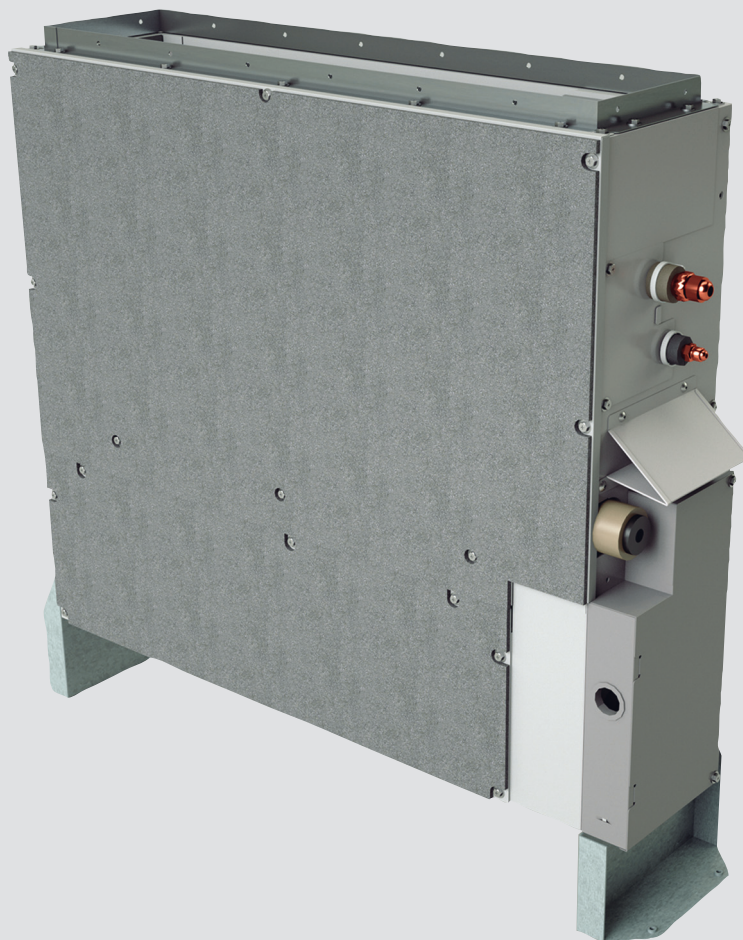


Air Conditioning  
Technical Data

FNA-A



- > FNA25A2VEB
- > FNA35A2VEB
- > FNA50A2VEB
- > FNA60A2VEB



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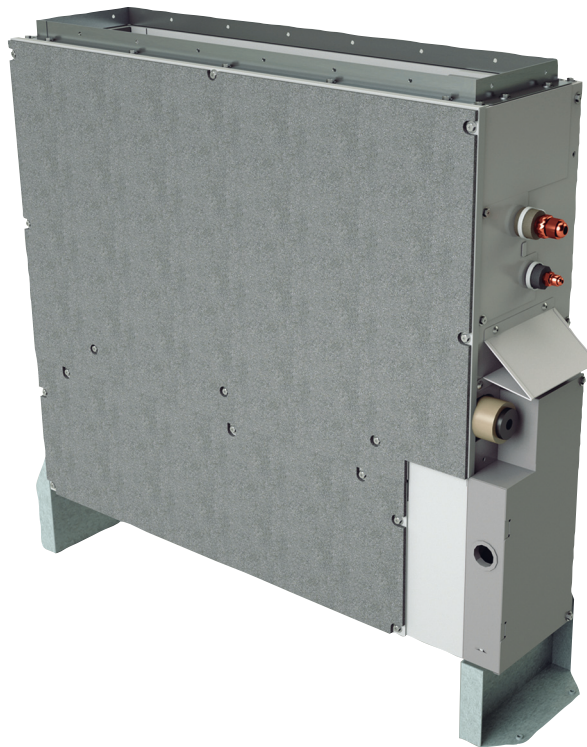
## FNA-A

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# 1 Features

Designed to be concealed in walls

- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Unified indoor unit can be combined with R-32 and R-410A outdoor units, symplifying 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
- 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



Home leave operation



Fan only



Auto cooling-heating changeover



Fan speed 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

2-1 Technical Specifications				FNA25A	FNA35A	FNA50A	FNA60A	
Casing	Colour			Unpainted				
	Material			Galvanised steel plate				
Dimensions	Unit	Height/Width/Depth	mm	620 / 720 (1) / 720 (2)/790/200		620 / 720 (1) / 720 (2)/1,190/200		
	Packed unit	Height/Width/Depth	mm	265/925/885		265/1,325/885		
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				
	Type			Cross fin coil (multi slit fins with hydrophilic treatment ø7 Hi-XD tubes)				
	Air filter	Type			Resin net			
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 / 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 / 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	
Type			DC motor					
Sound power level	Cooling		dBA	53		56		
Sound pressure level	Cooling	High/Nom./Medium/Low	dBA	33/31/31 (1)/28		36/33/33 (1)/30		
		Heating	High/Nom./Low	dBA	33/31/28		36/33/30	
Control systems	Infrared remote control			BRC4C65				
	Wired remote control			BRC1D52 / BRC1E52A/B				
Refrigerant	Type			R-410A / R-32				
Piping connections	Sound absorbing insulation			Butyl Rubber				
	Liquid	Type/OD	mm	Flare connection/6,35				
	Gas	Type/OD	mm	Flare connection/9.52		Flare connection/12.7		
	Drain			VP20 (I.D. 20/O.D. 26)				
	Heat insulation			Foamed polystyrene / Foamed polyethylene				
2-2 Electrical Specifications				FNA25A	FNA35A	FNA50A	FNA60A	
Power supply	Name			VE				
	Phase			1~				
	Frequency		Hz	50/60				
	Voltage		V	220-240/220				

## 2 Specifications

### Notes

- (1) The sound power level is an absolute value indicating the power which a sound source generates.
- (2) Including installation legs

### 3 Safety device settings

#### 3 - 1 Safety Device Settings

FNA-A

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

4D110744

# 4 Options

## 4 - 1 Options

FNA-A

		Availability	
		SA	
	Optional equipment	Part name	
Individual control systems	Wired remote control	BRC1D52/BRC1D61/BRC1E51A	FNA25A2VEB FNA35A2VEB FNA50A2VEB FNA60A2VEB
		BRC1E53A7 (6)	X
		BRC1E53B7 (7)	X
		BRC1E53C7 (8) (9)	X
	Simplified remote control for hotel use	BRC2E52C7 (3) (9)	X
	Stylish remote control	BRC1E52A, BRC1E52B	X
	Remote control for hotel use	BRC3E52C7 (3)	X
	Wireless remote control	BRC4C65	X
Wi-Fi adaptor for smartphones	BRP069A81	X	
Centralised control systems	Central remote control	DCS302CA51 DSC302CA61 (1)	X
	Unified ON/OFF controller	DSC301BA51	X
		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
	Installation box for adaptor PCB	KRP1BA101	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
Digital input adaptor	BRP7A51 (4) (5)	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) : This option needs to be installed together with installation box -.

(5) : Only possible in combination with simplified remote control BRC2/3E52C7.

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

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

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

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

3D106140A



# 5 Capacity tables

## 5 - 1 Cooling/Heating Capacity Tables

### FNA25A

#### FNA25A2VEB + RXM25M3V1B9

Cooling 50 Hz 220 - 240 V

AFR	8,7
BF	0,17

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2,66	2,04	0,52	2,54	1,98	0,58	2,42	1,92	0,63	2,37	1,90	0,65	2,30	1,86	0,68	2,18	1,81	0,73
16	22	2,78	2,00	0,53	2,66	1,95	0,58	2,54	1,89	0,63	2,49	1,87	0,65	2,42	1,84	0,68	2,30	1,78	0,73
18	25	2,90	2,11	0,53	2,78	2,06	0,58	2,66	2,00	0,63	2,61	1,98	0,65	2,54	1,95	0,68	2,42	1,90	0,73
19	27	2,96	2,23	0,53	2,84	2,18	0,58	2,72	2,13	0,63	2,67	2,11	0,65	2,60	2,08	0,68	2,48	2,04	0,73
22	30	3,14	2,16	0,54	3,02	2,11	0,59	2,90	2,07	0,64	2,85	2,05	0,66	2,78	2,02	0,69	2,66	1,98	0,74
24	32	3,26	2,10	0,54	3,14	2,06	0,59	3,02	2,02	0,64	2,97	2,01	0,66	2,90	1,98	0,69	2,78	1,94	0,74

Heating 50 Hz 220 - 240 V

AFR	8,7
-----	-----

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		1,49	0,64	1,79	0,68	2,09	0,71	2,39	0,74	3,31	0,78	3,60	0,81
20		1,40	0,66	1,70	0,69	2,00	0,73	2,30	0,76	3,20	0,80	3,49	0,83
22		1,36	0,67	1,66	0,70	1,96	0,73	2,26	0,77	3,16	0,81	3,44	0,83
24		1,32	0,68	1,62	0,71	1,92	0,74	2,22	0,77	3,11	0,81	3,40	0,84
25		1,30	0,68	1,60	0,71	1,90	0,75	2,20	0,78	3,09	0,82	3,38	0,84
27		1,27	0,69	1,57	0,72	1,87	0,75	2,17	0,79	3,05	0,83	3,33	0,85

Symbols

AFR Air flow rate [m³/min]  
 BF Bypass factor  
 EWB Entering wet-bulb temperature (°C WB)  
 EDB Entering dry-bulb temperature (°C DB)  
 TC Total capacity [kW]  
 SHC Sensible heat capacity [kW]  
 PI Power input [kW]

Notes

- 1) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 2) The bold cells indicate the standard conditions.
- 3) The capacities are based on the following conditions:
- 4) Corresponding refrigerant piping length: 5 m
- 5) Level difference: 0m
- 6) The air flow rate and bypass factor are mentioned in the table.

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### FNA35A

#### FNA35A2VEB + RXM35M3V1B9

Cooling 50 Hz 220 - 240 V

AFR	8,7
BF	0,17

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2,96	2,19	0,75	2,96	2,19	0,85	2,96	2,19	0,96	2,96	2,19	1,01	2,96	2,19	1,08	2,85	2,13	1,17
16	22	3,64	2,42	0,85	3,48	2,34	0,93	3,32	2,26	1,01	3,26	2,23	1,04	3,17	2,18	1,09	3,01	2,11	1,17
18	25	3,80	2,51	0,85	3,64	2,43	0,93	3,48	2,36	1,02	3,42	2,33	1,05	3,32	2,29	1,10	3,16	2,22	1,18
19	27	3,87	2,63	0,86	3,72	2,55	0,94	3,56	2,48	1,02	3,49	2,46	1,05	3,40	2,42	1,10	3,24	2,35	1,18
22	30	4,11	2,52	0,86	3,95	2,46	0,94	3,79	2,40	1,03	3,73	2,38	1,06	3,63	2,34	1,11	3,48	2,28	1,19
24	32	4,27	2,45	0,87	4,11	2,39	0,95	3,95	2,34	1,03	3,89	2,32	1,06	3,79	2,28	1,11	3,63	2,23	1,19

Heating 50 Hz 220 - 240 V

AFR	8,7
-----	-----

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		1,86	0,92	2,23	0,97	2,61	1,02	2,98	1,07	4,14	1,12	4,50	1,16
20		1,75	0,95	2,12	1,00	2,50	1,05	2,87	1,09	4,00	1,15	4,36	1,19
22		1,70	0,96	2,07	1,01	2,45	1,06	2,82	1,10	3,94	1,16	4,31	1,20
24		1,65	0,97	2,03	1,02	2,40	1,07	2,78	1,11	3,89	1,17	4,25	1,21
25		1,63	0,98	2,01	1,02	2,38	1,07	2,76	1,12	3,86	1,18	4,22	1,21
27		1,59	0,99	1,96	1,03	2,33	1,08	2,71	1,13	3,81	1,19	4,02	1,21

Symbols

AFR Air flow rate [m³/min]  
 BF Bypass factor  
 EWB Entering wet-bulb temperature (°C WB)  
 EDB Entering dry-bulb temperature (°C DB)  
 TC Total capacity [kW]  
 SHC Sensible heat capacity [kW]  
 PI Power input [kW]

Notes

- 1) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 2) The bold cells indicate the standard conditions.
- 3) The capacities are based on the following conditions:
- 4) Corresponding refrigerant piping length: 5 m
- 5) Level difference: 0m
- 6) The air flow rate and bypass factor are mentioned in the table.

3D113006

# 5 Capacity tables

## 5 - 1 Cooling/Heating Capacity Tables

5

### FNA50A

#### FNA50A2VEB + RXM50M3V1B9

Cooling 50 Hz 220 - 240 V

AFR	16
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5,12	3,94	1,13	4,89	3,83	1,24	4,66	3,71	1,35	4,56	3,67	1,40	4,42	3,60	1,46	4,19	3,49	1,57
16	22	5,35	3,87	1,14	5,12	3,77	1,25	4,89	3,66	1,36	4,79	3,62	1,40	4,65	3,56	1,47	4,42	3,45	1,58
18	25	5,58	4,08	1,15	5,35	3,98	1,26	5,12	3,88	1,37	5,02	3,84	1,41	4,88	3,78	1,48	4,65	3,69	1,59
19	27	5,70	4,32	1,15	5,47	4,22	1,26	5,23	4,13	1,37	5,14	4,09	1,41	5,00	4,04	1,48	4,77	3,94	1,59
22	30	6,04	4,17	1,16	5,81	4,09	1,27	5,58	4,00	1,38	5,49	3,97	1,42	5,35	3,92	1,49	5,11	3,84	1,60
24	32	6,27	4,07	1,17	6,04	3,99	1,28	5,81	3,92	1,39	5,72	3,89	1,43	5,58	3,84	1,50	5,34	3,77	1,60

Heating 50 Hz 220 - 240 V

AFR	16
-----	----

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		2,70	1,40	3,24	1,47	3,78	1,54	4,33	1,61	6,00	1,70	6,52	1,75
20		2,53	1,44	3,07	1,51	3,62	1,58	4,16	1,65	5,80	1,74	6,32	1,79
22		2,46	1,45	3,01	1,52	3,55	1,59	4,10	1,67	5,72	1,75	6,24	1,81
24		2,40	1,47	2,94	1,54	3,49	1,61	4,03	1,68	5,64	1,77	6,16	1,83
25		2,36	1,48	2,91	1,55	3,45	1,62	4,00	1,69	5,60	1,78	6,12	1,83
27		2,30	1,49	2,84	1,56	3,39	1,63	3,93	1,71	5,52	1,79	6,04	1,85

Symbols

- AFR Air flow rate [m<sup>3</sup>/min]
- BF Bypass factor
- EWB Entering wet-bulb temperature (°C WB)
- EDB Entering dry-bulb temperature (°C DB)
- TC Total capacity [kW]
- SHC Sensible heat capacity [kW]
- PI Power input [kW]

Notes

- 1) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 2) The bold cells indicate the standard conditions.
- 3) The capacities are based on the following conditions:
- 4) Corresponding refrigerant piping length: 5 m
- 5) Level difference: 0m
- 6) The air flow rate and bypass factor are mentioned in the table.

3D113007

### FNA60A

#### FNA60A2VEB + RXM60M3V1B9

Cooling 50 Hz 220 - 240 V

AFR	16
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5,78	4,27	1,66	5,78	4,27	1,86	5,59	4,17	2,03	5,48	4,11	2,10	5,31	4,03	2,20	3,82	3,32	2,01
16	22	6,42	4,38	1,71	6,14	4,24	1,88	5,86	4,11	2,04	5,75	4,06	2,11	5,59	3,98	2,21	4,02	3,28	2,01
18	25	6,70	4,57	1,72	6,42	4,44	1,89	6,14	4,32	2,05	6,03	4,27	2,12	5,86	4,20	2,22	4,22	3,51	2,01
19	27	6,84	4,80	1,73	6,56	4,68	1,89	6,28	4,56	2,06	6,17	4,51	2,12	6,00	4,44	2,22	4,32	3,77	2,01
22	30	7,25	4,62	1,74	6,97	4,52	1,91	6,69	4,41	2,07	6,58	4,37	2,14	6,41	4,31	2,24	4,62	3,67	2,01
24	32	7,53	4,50	1,75	7,25	4,40	1,92	6,97	4,30	2,08	6,86	4,26	2,15	6,69	4,21	2,25	4,82	3,60	2,01

Heating 50 Hz 220 - 240 V

AFR	16
-----	----

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		3,39	1,81	4,08	1,90	4,76	2,00	5,44	2,09	7,24	2,20	7,87	2,27
20		3,18	1,86	3,87	1,95	4,55	2,05	5,23	2,14	7,00	2,25	7,63	2,32
22		3,10	1,88	3,78	1,97	4,47	2,07	5,15	2,16	6,90	2,27	7,54	2,35
24		3,02	1,90	3,70	1,99	4,38	2,09	5,07	2,18	6,81	2,29	7,44	2,37
25		2,97	1,91	3,66	2,00	4,34	2,10	5,03	2,19	6,76	2,30	7,39	2,38
27		2,89	1,93	3,57	2,03	4,26	2,12	4,94	2,21	6,66	2,32	7,29	2,40

Symbols

- AFR Air flow rate [m<sup>3</sup>/min]
- BF Bypass factor
- EWB Entering wet-bulb temperature (°C WB)
- EDB Entering dry-bulb temperature (°C DB)
- TC Total capacity [kW]
- SHC Sensible heat capacity [kW]
- PI Power input [kW]

Notes

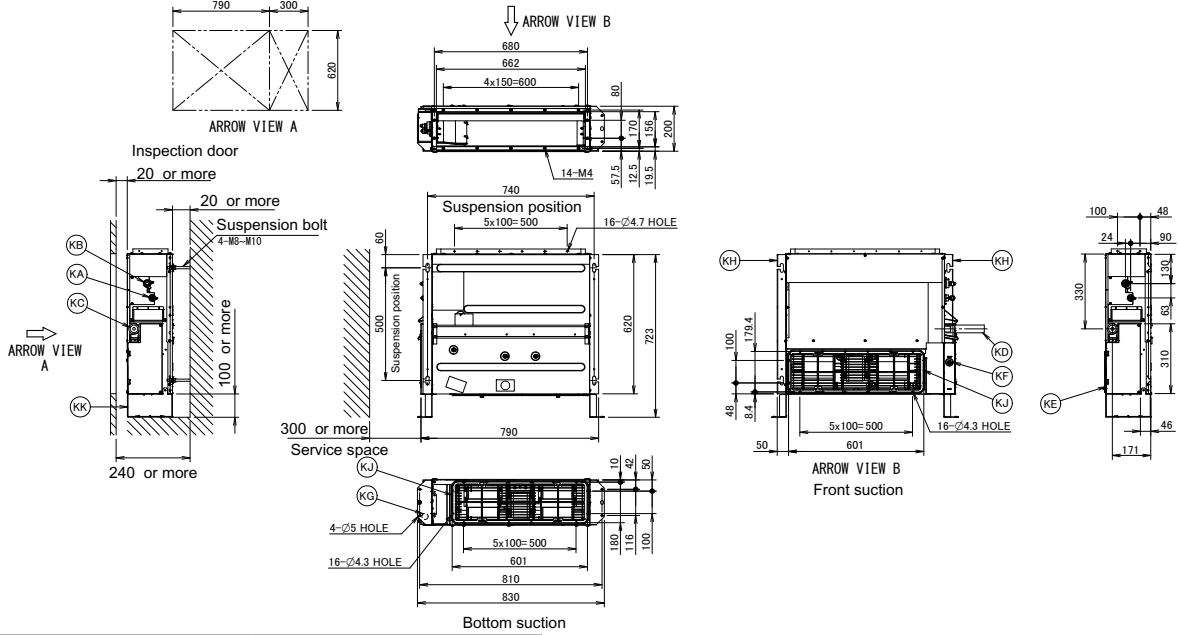
- 1) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 2) The bold cells indicate the standard conditions.
- 3) The capacities are based on the following conditions:
- 4) Corresponding refrigerant piping length: 5 m
- 5) Level difference: 0m
- 6) The air flow rate and bypass factor are mentioned in the table.

3D113008

# 6 Dimensional drawings

## 6 - 1 Dimensional Drawings

### FNA25-35A



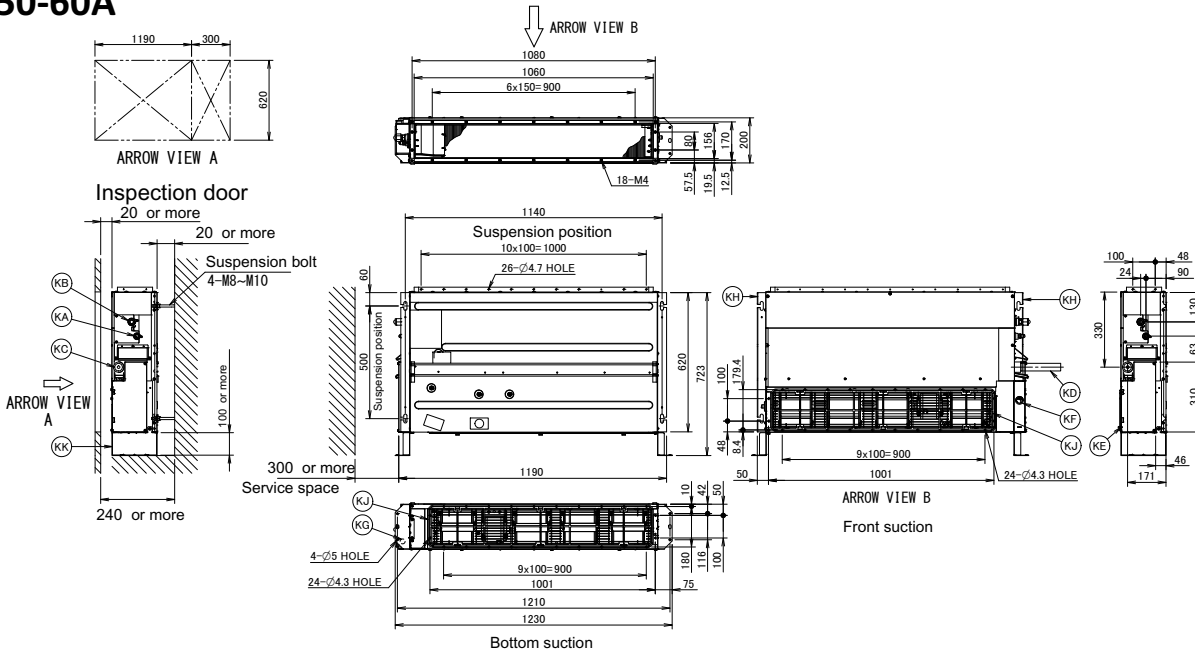
Item	Name	Description
KA	Liquid pipe connection port	∅6.40 flared connection
KB	Gas pipe connection port	∅9.50 flared connection
KC	Drain pipe connection	VP20 (OD ∅26, ID ∅20)
KD	Drain hose	ID ∅25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter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

3D112885

### FNA50-60A



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

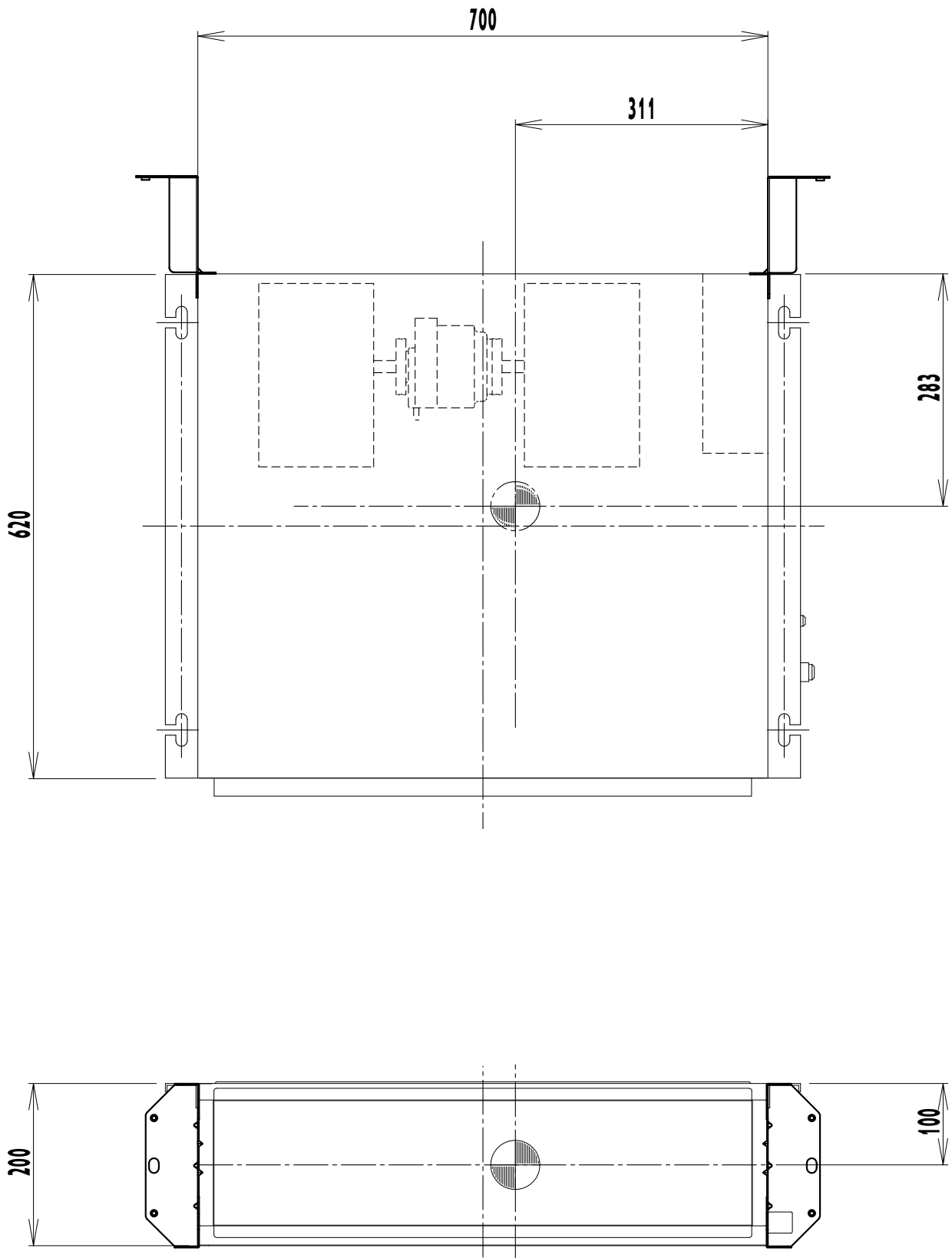
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D112884

# 7 Centre of gravity

## 7 - 1 Centre of Gravity

FNA25-35A



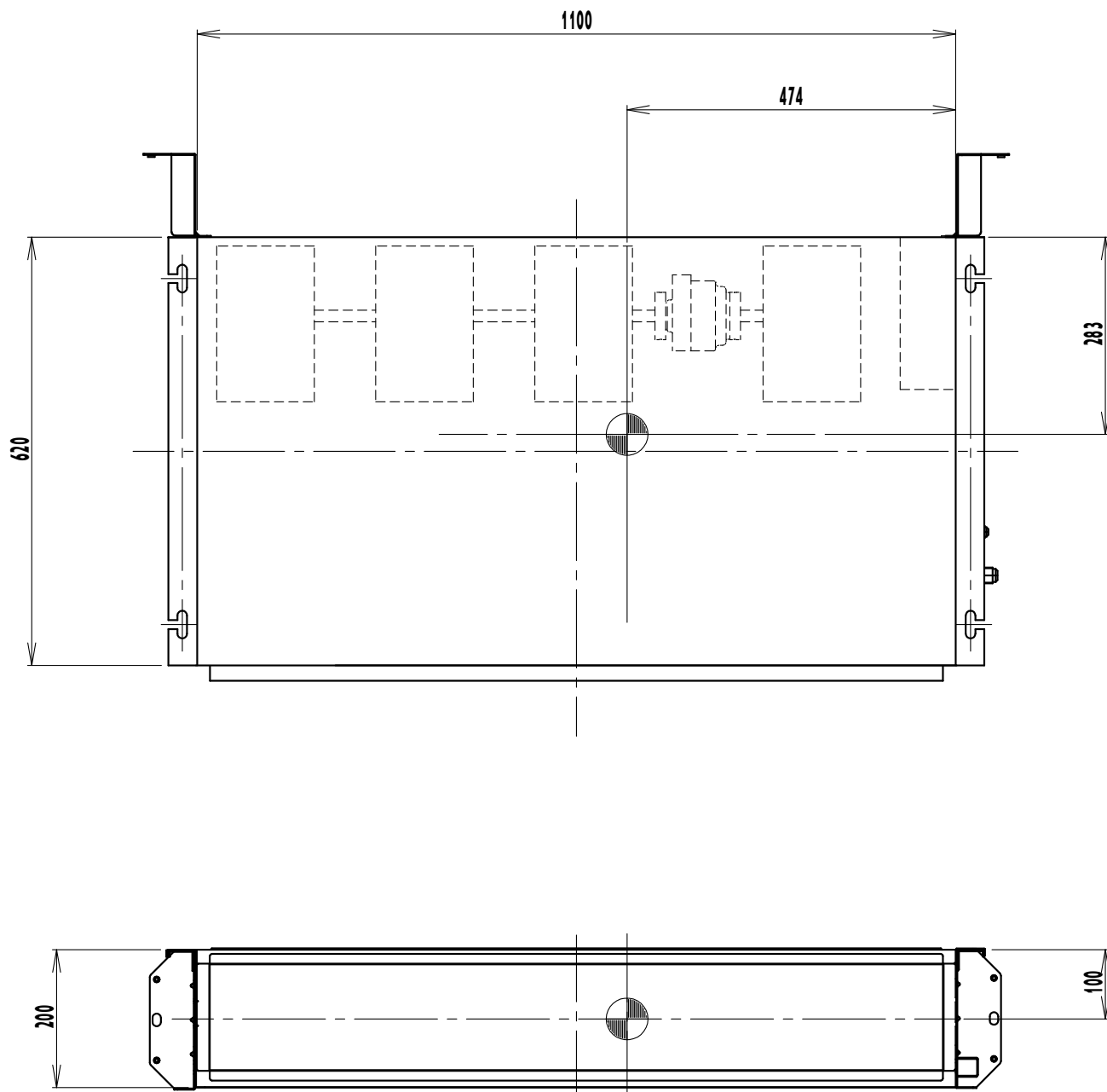
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# 7 Centre of gravity

## 7 - 1 Centre of Gravity

FNA50-60A

7



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# 8 Piping diagrams

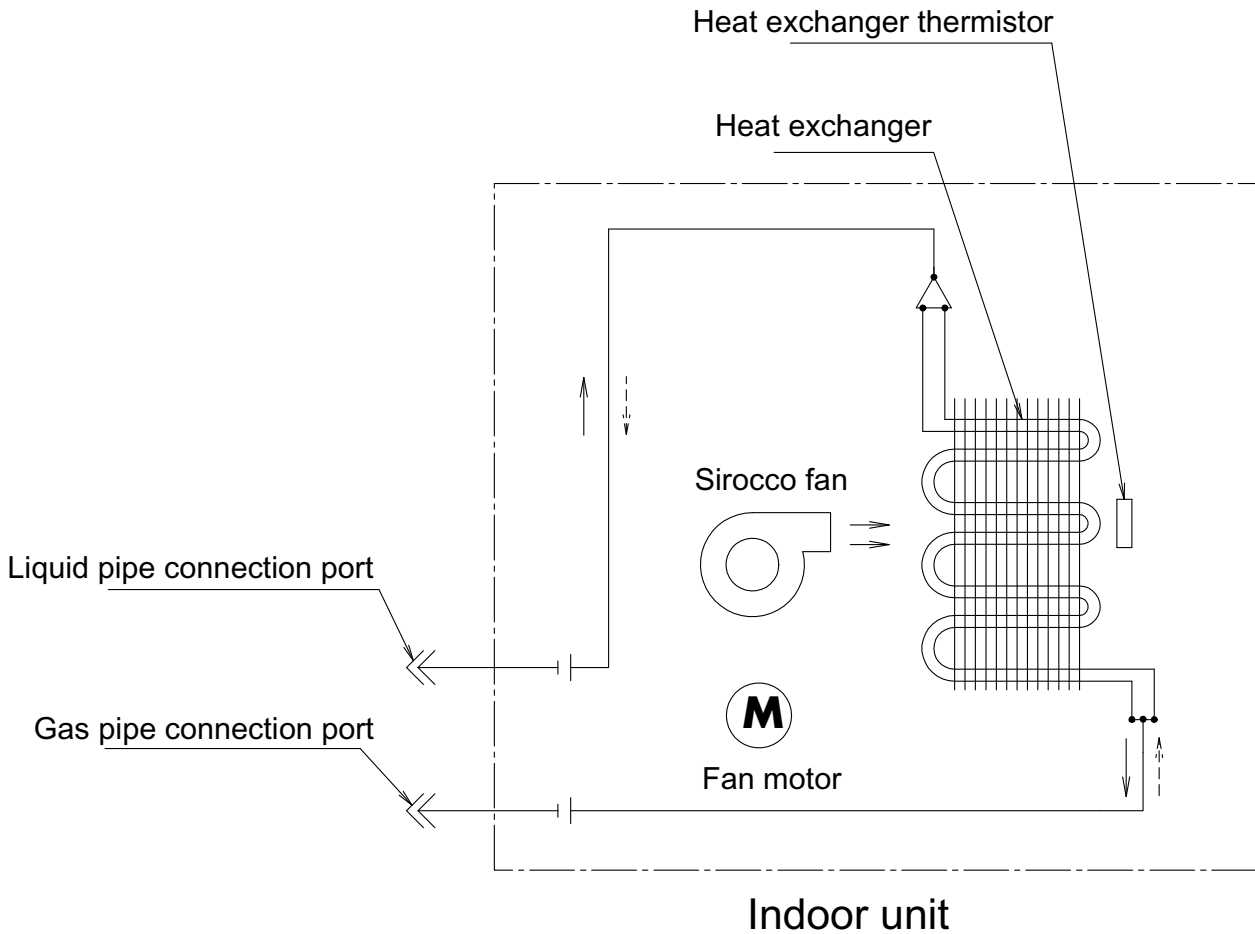
## 8 - 1 Piping Diagrams

8

FNA-A

### Piping connections Ø

Model	Gas pipe	Liquid pipe
FNA25A2VEB	Ø 9.5	Ø 6.4
FNA35A2VEB	Ø 9.5	Ø 6.4
FNA50A2VEB	Ø 12.7	Ø 6.4
FNA60A2VEB	Ø 12.7	Ø 6.4



### Refrigerant flow

Cooling ———→

Heating - - - - -→

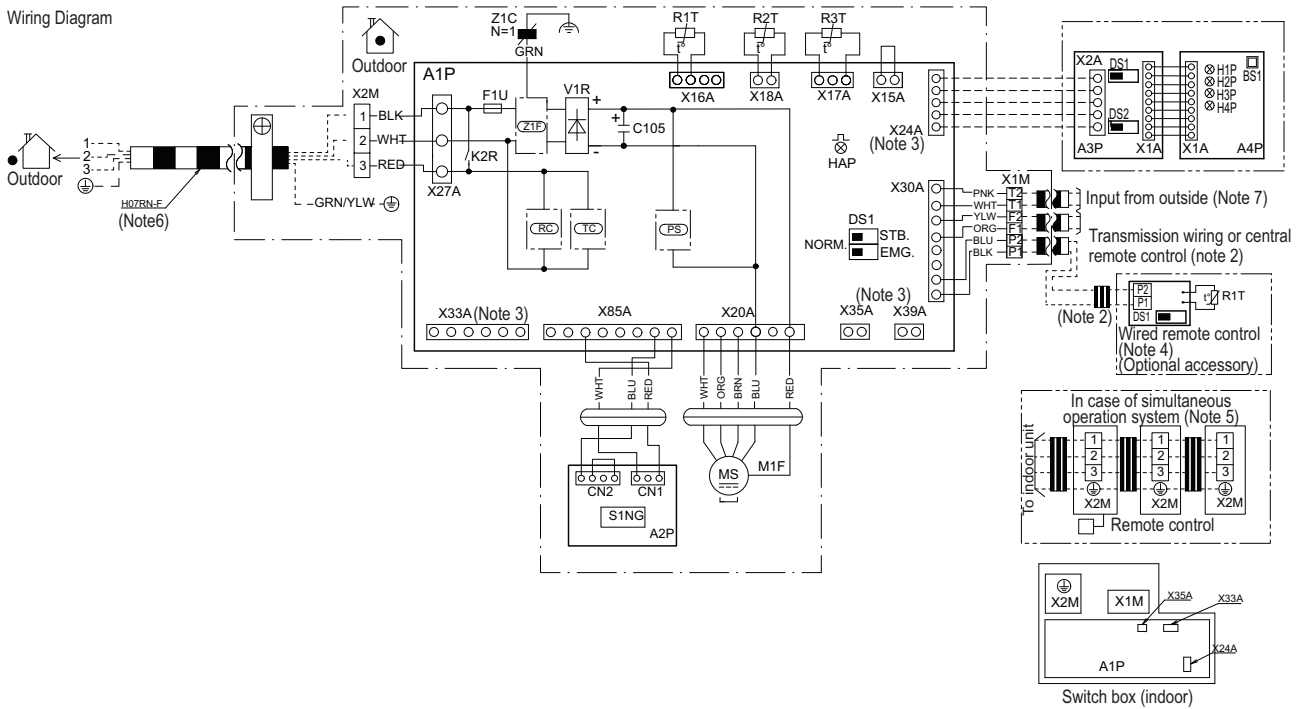
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# 9 Wiring diagrams

## 9 - 1 Wiring Diagrams - Single Phase

### FNA-A

Wiring Diagram



Indoor unit	
A1P	Printed circuit board
A2P	Gas sensor board
C105	Capacitor
F1U	Fuse (F, 3.15A, 250V)
K2R	Magentic 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 (infrared remote control)
X33A	Connector (adapter for wiring)
X35A	Connector (adapter power supply)
Wired remote control	
R1T	Thermistor (air)
SS1	Selector switch (emergency)

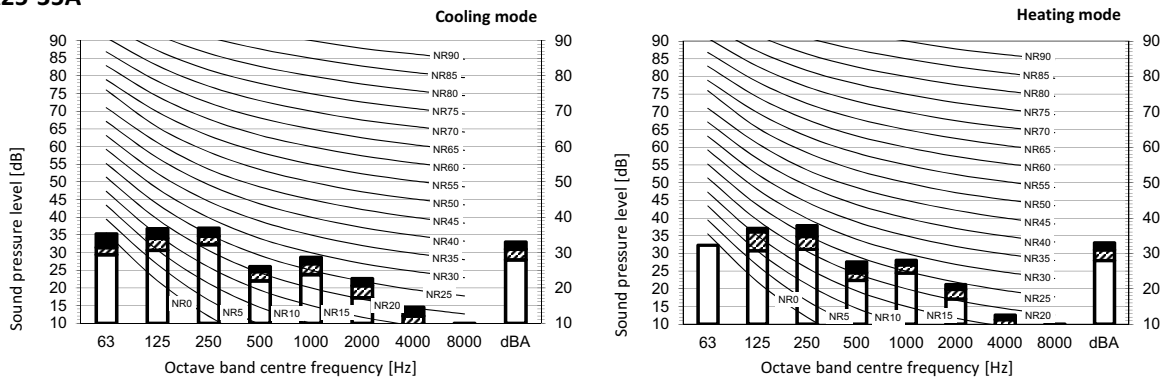
### NOTES

- : terminal block, ○: connector, —: field wiring, •: wire clamp, ⊕: protective earth (screw)
- In case using central remote control, connect it to the unit in accordance with the attached installation manual.
- X24A, X33A, X35A, X39A are connected when the optional accessories are being used.
- For change over of BRC1E type main/sub refer to manual attached to remote control.
- Show only in case of protected pipes. Use H07RN-F in case of no protection.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by the remote control, see manual for detail.
- Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, PNK: Pink, YLW: Yellow, GRN: Green, BRN: Brown

# 10 Sound data

## 10 - 1 Sound Pressure Spectrum

### FNA25-35A



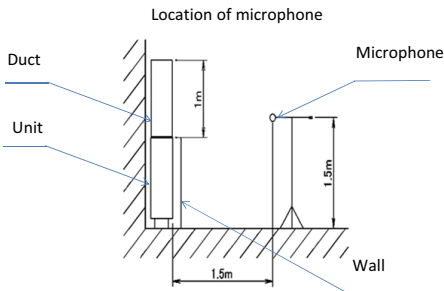
**Legend**

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

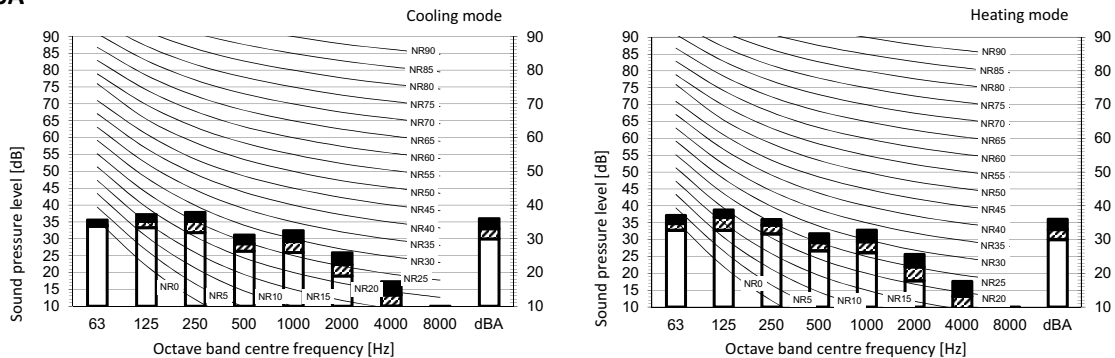


**Notes**

- 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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### FNA50-60A



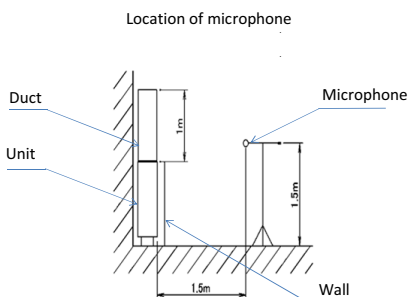
**Legend**

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**

- 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

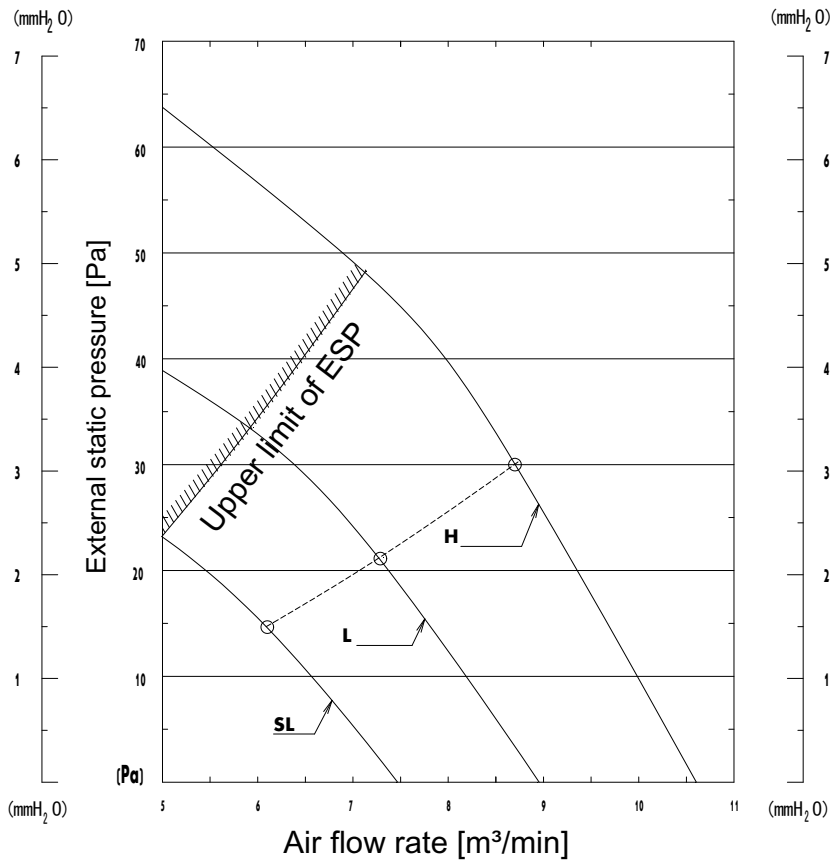
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# 11 Fan characteristics

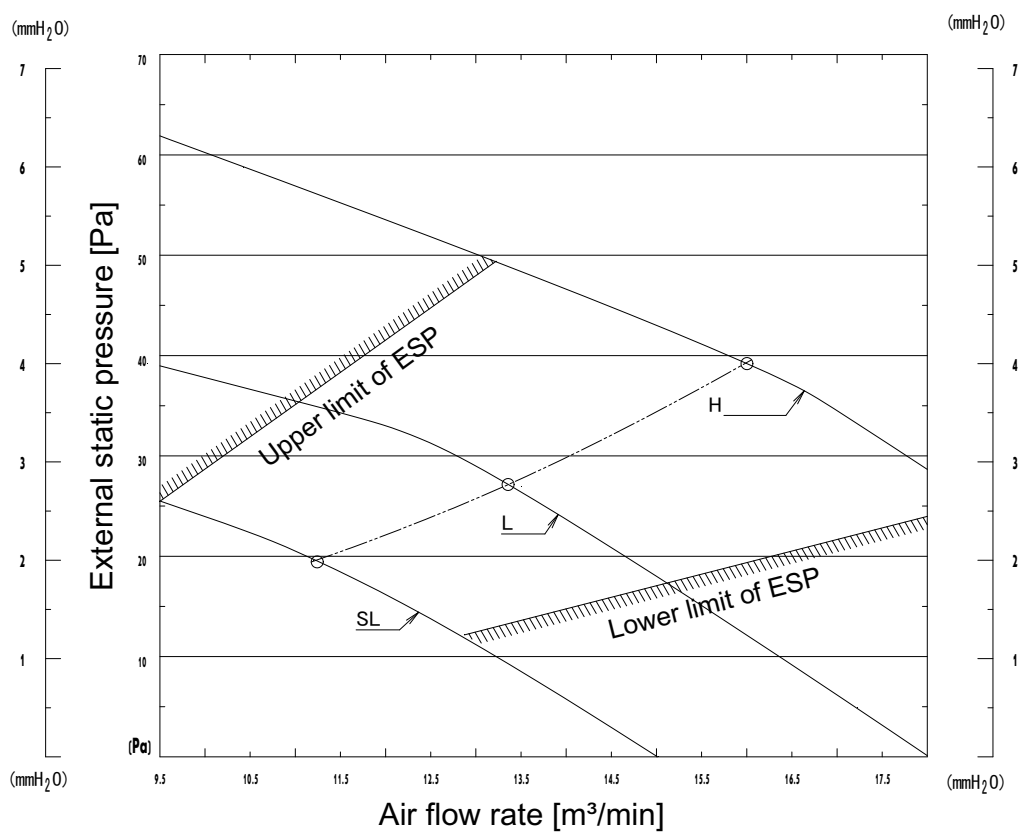
## 11 - 1 Fan Characteristics

### FNA25-35A



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### FNA50A



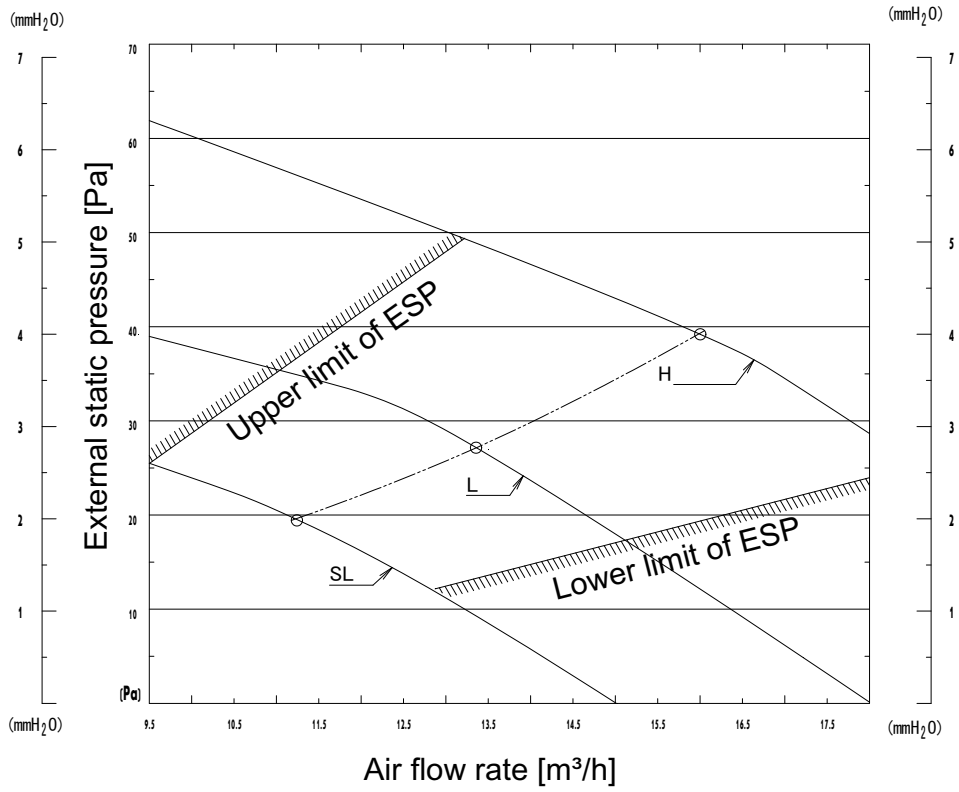
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# 11 Fan characteristics

## 11 - 1 Fan Characteristics

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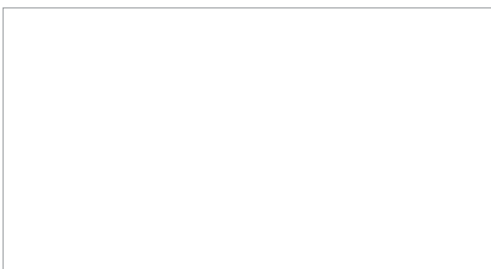
FNA60A



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