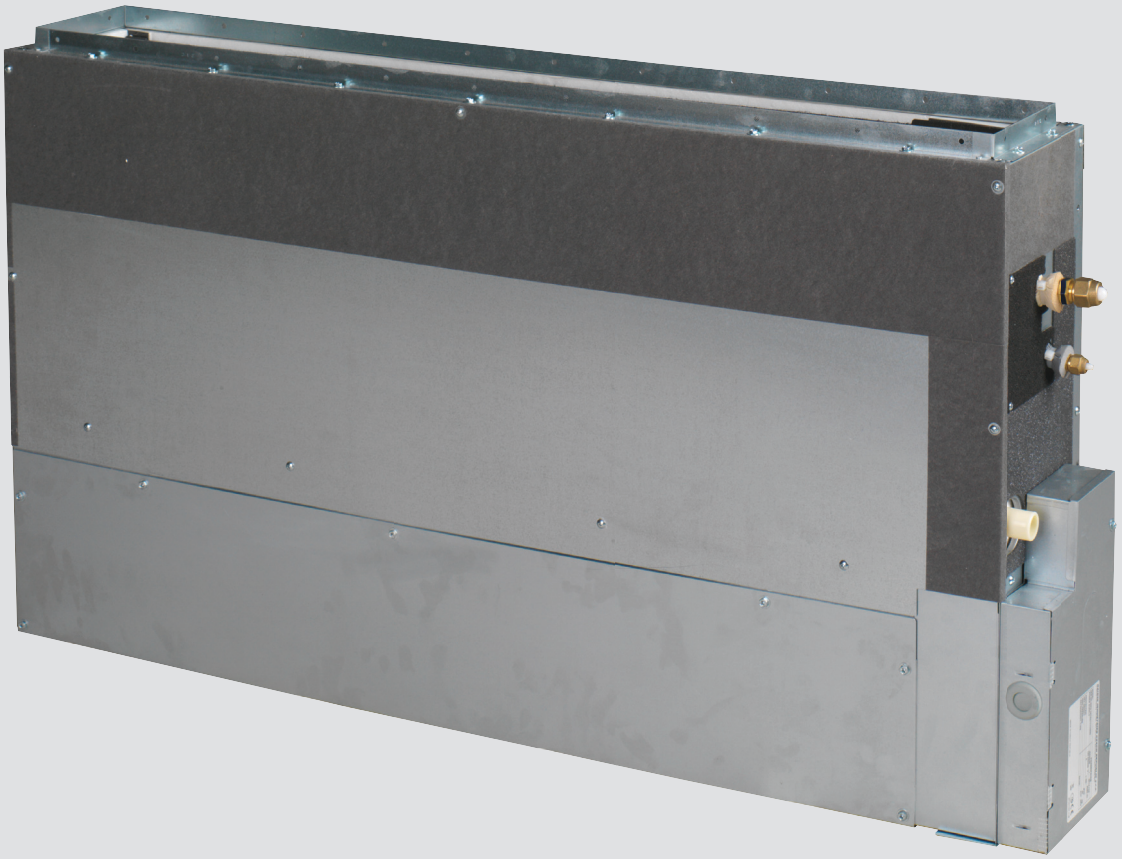
DAIKIN

Sky Air

Air Conditioning Technical Data

FNQ-A



> FNQ25A2VEB
> FNQ35A2VEB
> FNQ50A2VEB
> FNQ60A2VEB

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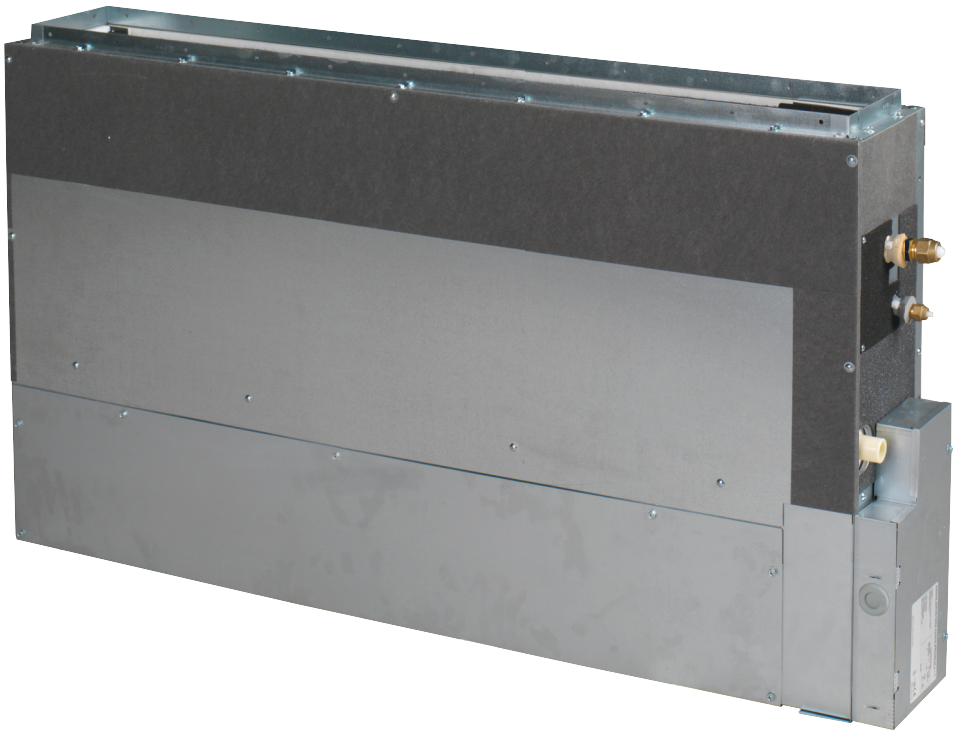
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1 Features

Designed to be concealed in walls

- Ideal for installation in offices, hotels and residential applications
- Blends unobtrusively with any interior décor: only the suction and discharge grills are visible
- Its low height (620 mm) enables the unit to fit perfectly beneath a window
- Requires very little installation space as the depth is only 200mm
- 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					FNQ25A	FNQ35A	FNQ50A	FNQ60A
Cooling capacity	Nom.			kW	2.6	3.4	5.0	6.0
Heating capacity	Nom.			kW	3.2	4.0	5.8	7.0
Casing	Colour				Unpainted			
	Material				Galvanised steel plate			
Dimensions	Unit	Height/Width/Depth		mm	620 / 720 (1)/790/200		620 / 720 (1)/1,190/200	
	Packed unit	Height/Width/Depth		mm	265/925/885		265/1,325/885	
Weight	Unit			kg	23		30	
	Packed unit			kg	27		35	
Heat exchanger	Type				Cross fin coil (multi slit fins with hydrophilic treatment ø7 Hi-XD tubes)			
Air filter	Type				Resin net with mold resistance			
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		14.8	
			Low	m³/min	7.3		13.5	
		Heating	High	m³/min	8.7		16.0	
			Nom.	m³/min	8		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			
	Output	Rated		W	44		65	
	Type				DC motor			
Sound power level	Cooling			dBA	53		56	
	Heating			dBA	-			
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28		36/33/30	
	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			
	GWP				2,087.5			
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			FNQ25A	FNQ35A	FNQ50A	FNQ60A
Power supply	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			

Notes

(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

FNQ-A

	Safety devices		25	35	50	60
FNQ	Fuse		250V, 5A	250V, 5A	250V, 5A	250V, 5A
	Fan motor thermal protector	°C	---	---	---	---

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4 Options

4 - 1 Options

FNQ-A

	Optional equipment	Part name		Availability SA FNQ25A2VEB FNQ35A2VEB FNQ50A2VEB FNQ60A2VEB
Individual control systems	Wired remote control	BRC1D52	Current	X
		BRC1D61 (1)	Current	X
		BRC1E51A	Current	X
	Simplified remote control for hotel use	BRC2E52C7 (3)	Current	X
	Stylish remote control	BRC1E52A, BRC1E52B	Current	X
	Remote control for hotel use	BRC3E52C7 (3)	Current	X
	Wireless remote control	BRC4C65	Current	X
Centralised control systems	Central remote control	DCS302CA51 DSC302CA61 (1)	Current	X
	Unified ON/OFF controller	DSC301BA51 DCS301BA61 (1)	Current	X
	Schedule timer	DST301BA51 DST301BA61 (1)	Current	X
	Residential central remote control	DCS303A51 (1) (2)	Current	X
Other options	Adaptor for wiring	KRP1B56	Current	X
	Wiring adaptor for electrical appendices 1	KRP2A53	Current	
	Wiring adaptor for electrical appendices 2	KRP4A54	Current	X
	Remote sensor	KRCS01-4B	Current	X
	Installation box for adaptor PCB	KRP1BA101	Current	X
	Electrical box with earth terminal (2 blocks)	KJB212AA	Current	X
	Electrical box with earth terminal (3 blocks)	KJB311AA	Current	X
	Noise filter (for electromagnetic interface only)	KEK26-1A	Current	X
	External adaptor for outdoor unit (installation on indoor unit)	DTA104A53	Current	/
	Multi-tenant	DTA114A61	Current	/
	Digital input adaptor	BRP7A51 (4) (5)	Current	X

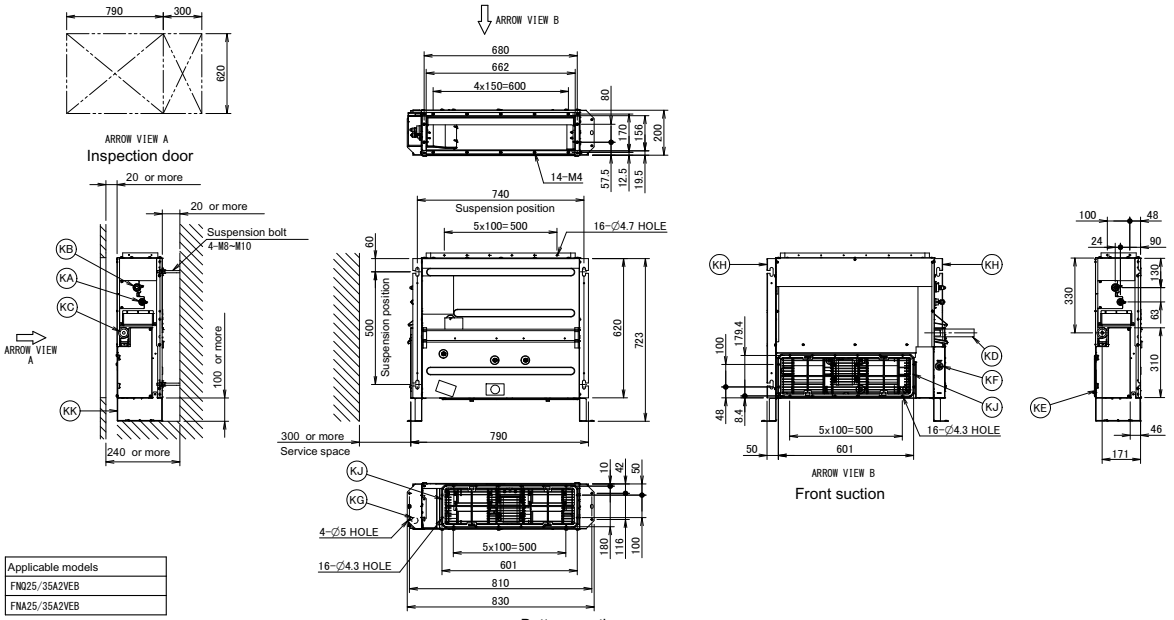
Notes
(1) : For Daikin Middle East only.
(2) : For residential use only. Cannot be used with other centralised control equipment.
(3) : Included languages are:
Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With PC cable EKPCCAB3 in combination with the Updater PC 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) : This option needs to be installed together with installation box _____.
(5) : Only possible in combination with simplified remote control BRC2/3E52C7.

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5 Dimensional drawings

5 - 1 Dimensional Drawings

FNQ25-35A



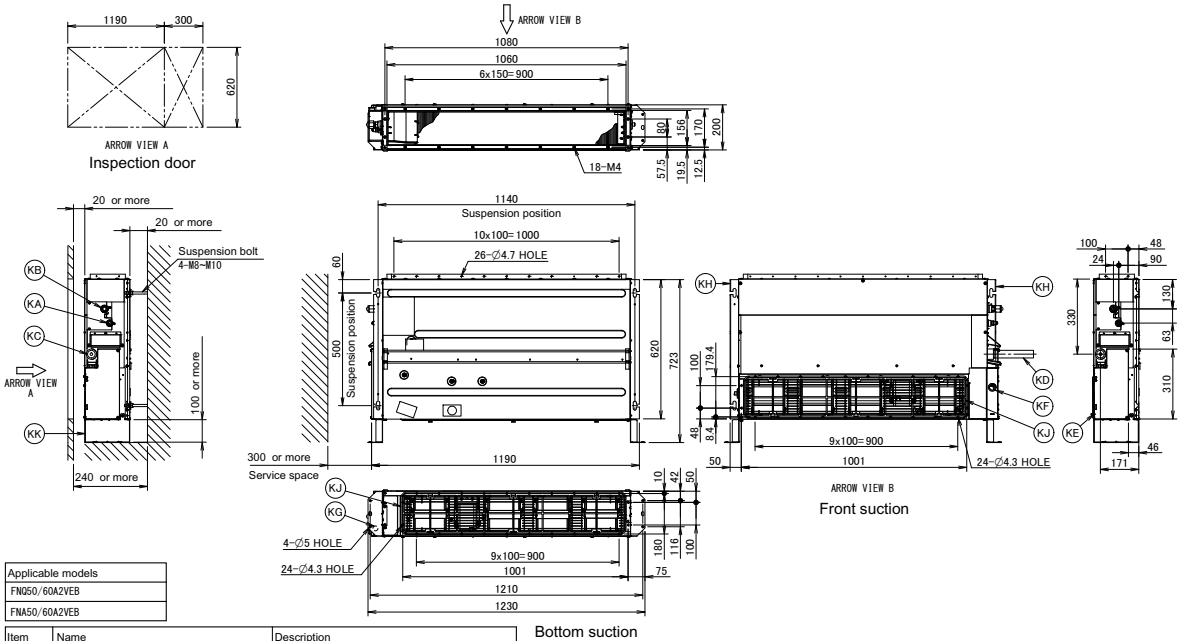
Applicable models
FNQ25/35A2VEB
FNA25/35A2VEB

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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FNQ50-60A



Applicable models
FNQ50/60A2VEB
FNA50/60A2VEB

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	/

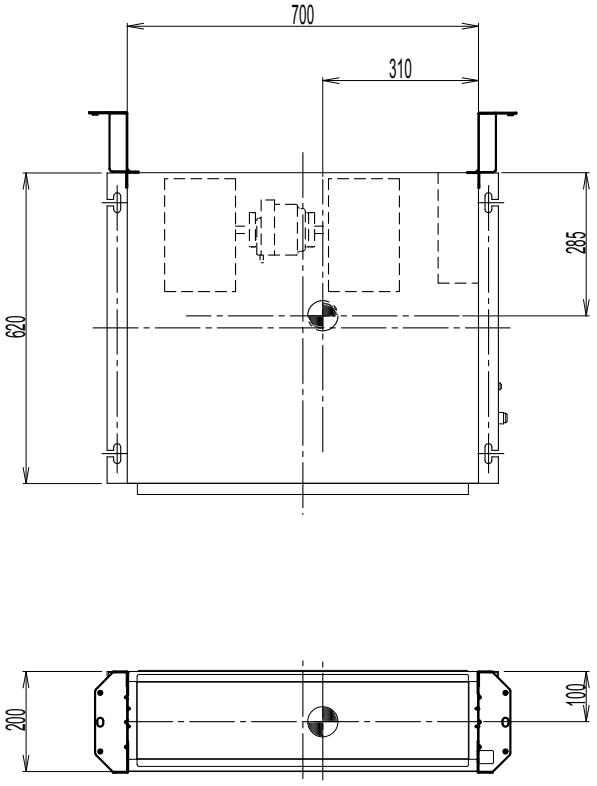
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

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6 Centre of gravity

6 - 1 Centre of Gravity

FNQ25-35A

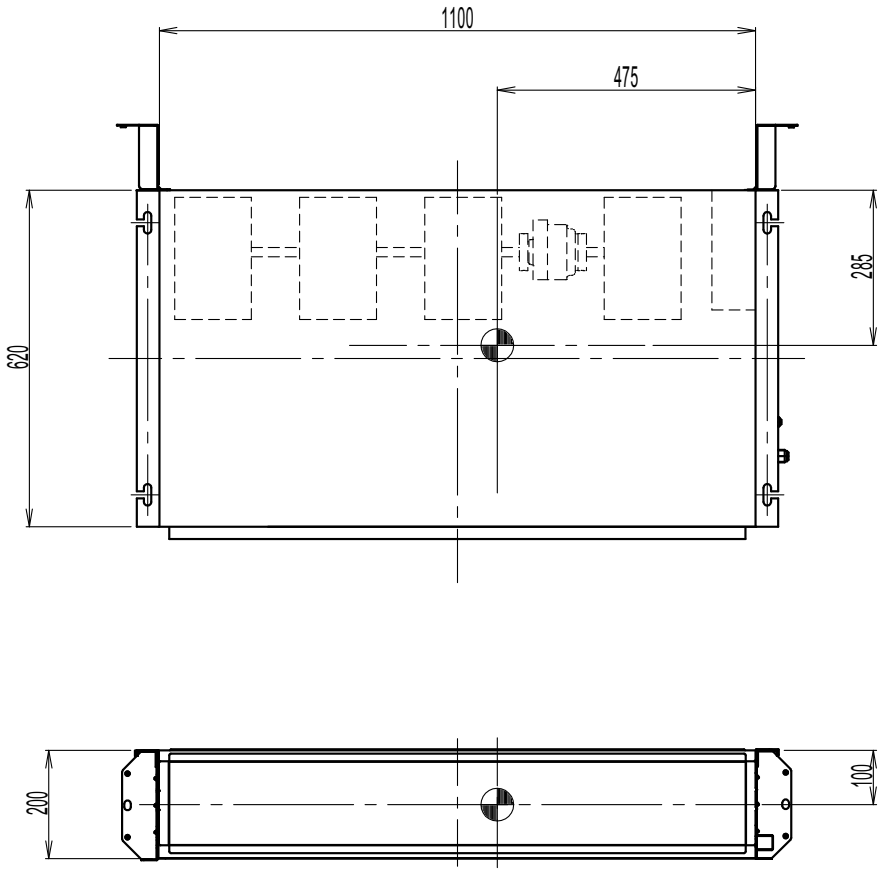


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6 Centre of gravity

6 - 1 Centre of Gravity

FNQ50-60A

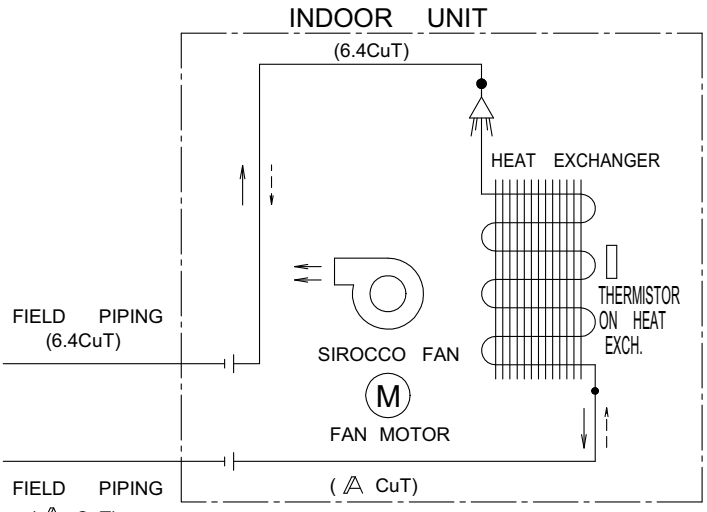


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7 Piping diagrams

7 - 1 Piping Diagrams

FNQ-A



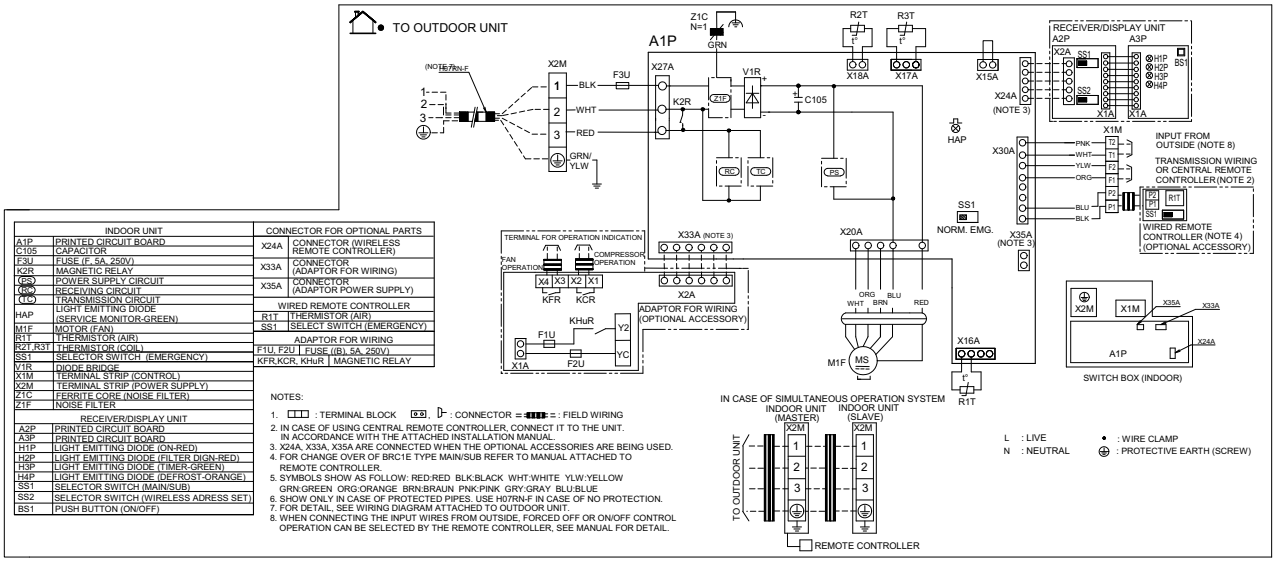
	A		A
FDXS25F2VEB FDXS35F2VEB FNQ25A2VEB FNQ35A2VEB FDXM25F2V1B FDXM35F2V1B	9.5	FDXS50F2VEB FDXS60F2VEB FDXS50F2VEB9 FNQ50A2VEB FNQ60A2VEB FDXM50F2V1B FDXM60F2VEB	12.7
			15.9

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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

FNQ-A



INDOOR UNIT	
A1P	PRINTED CIRCUIT BOARD
C105	CAPACITOR
F3U	FUSE (F, 5A, 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)
SS1	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	
A2P	PRINTED CIRCUIT BOARD
A3P	PRINTED CIRCUIT BOARD
H1P	LIGHT EMITTING DIODE (ON-RED)
H2P	LIGHT EMITTING DIODE (FILTER DIGN-RED)
H3P	LIGHT EMITTING DIODE (TIMER-GREEN)
H4P	LIGHT EMITTING DIODE (DEFROST-ORANGE)
SS1	SELECTOR SWITCH (MAIN/SUB)
SS2	SELECTOR SWITCH (WIRELESS ADRESS SET)
BS1	PUSH BUTTON (ON/OFF)

CONNECTOR FOR OPTIONAL PARTS	
X24A	CONNECTOR (WIRELESS REMOTE CONTROLLER)
X33A	CONNECTOR (ADAPTOR FOR WIRING)
X35A	CONNECTOR (ADAPTOR POWER SUPPLY)
WIRED REMOTE CONTROLLER	
R1T	THERMISTOR (AIR)
SS1	SELECT SWITCH (EMERGENCY)
ADAPTOR FOR WIRING	
F1U, F2U	FUSE (B), 5A, 250V)
KFR,KCR, KHuR	MAGNETIC RELAY

NOTES:

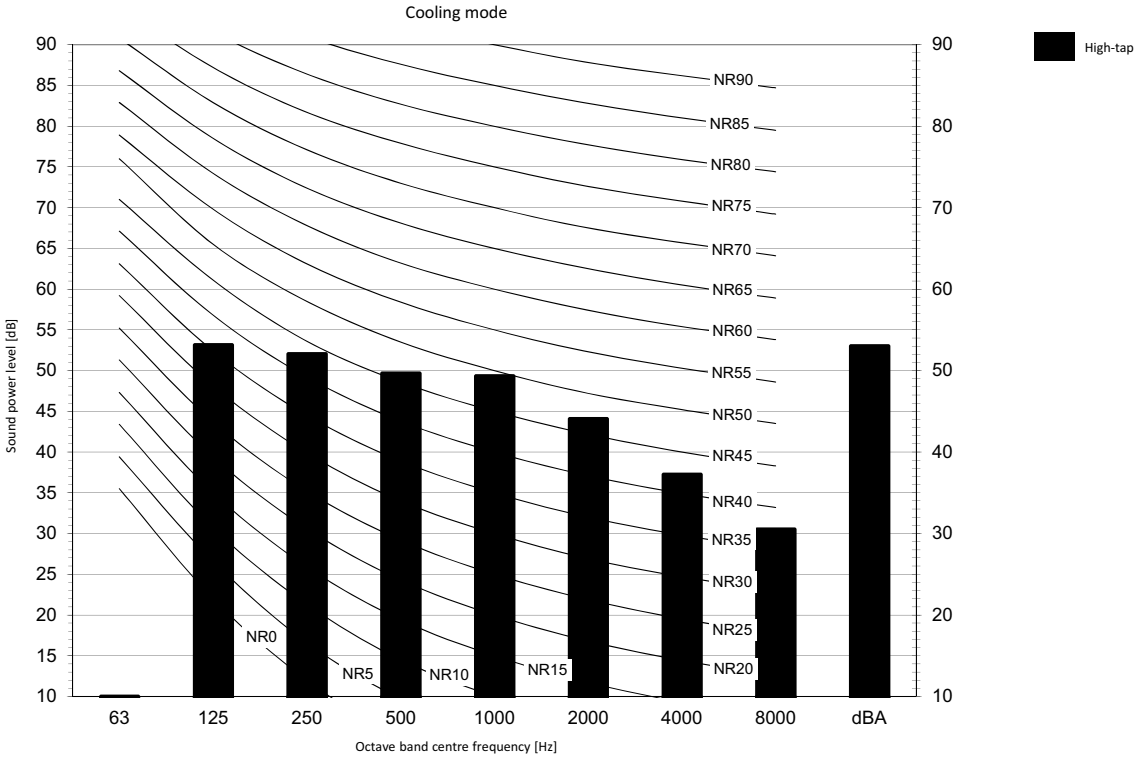
1. : TERMINAL BLOCK , : CONNECTOR = : FIELD WIRING
2. IN CASE OF USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT. IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
3. X24A, X33A, X35A ARE CONNECTED WHEN THE OPTIONAL ACCESSORIES ARE BEING USED.
4. FOR CHANGE OVER OF BRC1E TYPE MAIN/SUB REFER TO MANUAL ATTACHED TO REMOTE CONTROLLER.
5. SYMBOLS SHOW AS FOLLOW: RED:RED BLK:BLACK WHT:WHITE YLW:YELLOW GRN:GREEN ORG:ORANGE BRN:BRAUN PNK:PINK GRY:GRAY BLU:BLUE
6. SHOW ONLY IN CASE OF PROTECTED PIPES. USE H07RN-F IN CASE OF NO PROTECTION.
7. FOR DETAIL, SEE WIRING DIAGRAM ATTACHED TO OUTDOOR UNIT.
8. 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

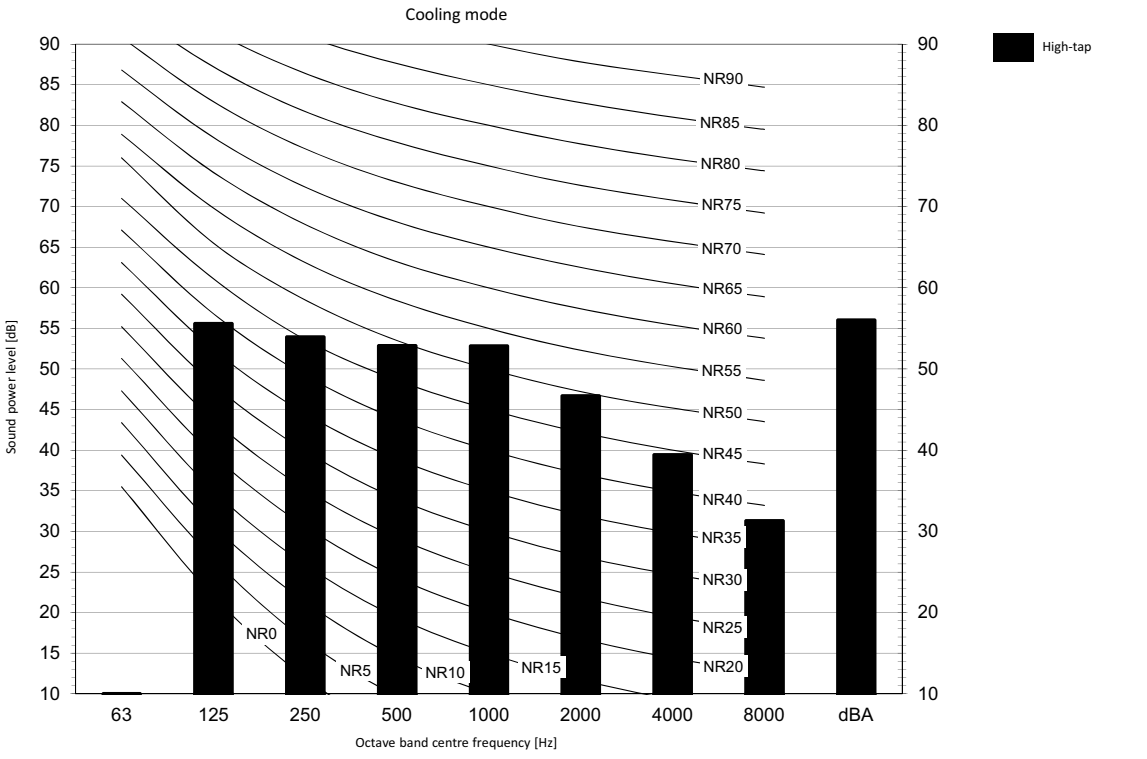
FNQ25-35A



Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10E-6µW/m2
3. Measured according to ISO 3744

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FNQ50-60A



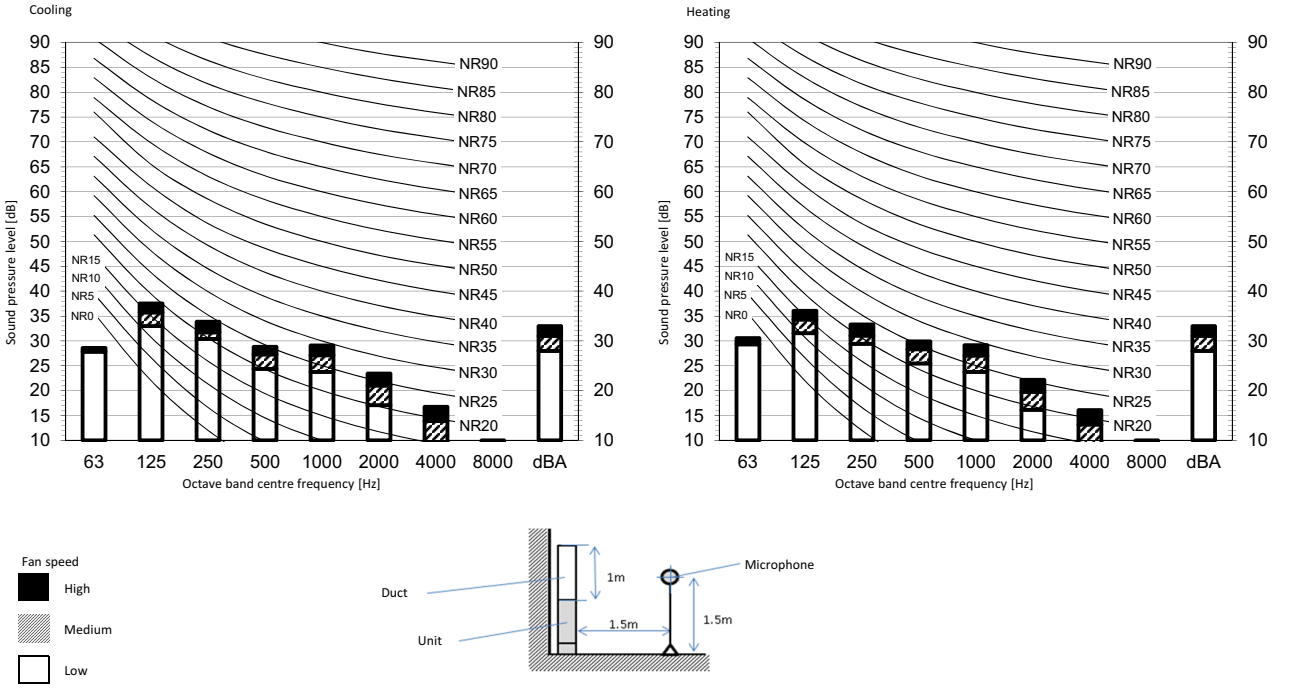
Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10E-6µW/m2
3. Measured according to ISO 3744

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9 Sound data

9 - 2 Sound Pressure Spectrum

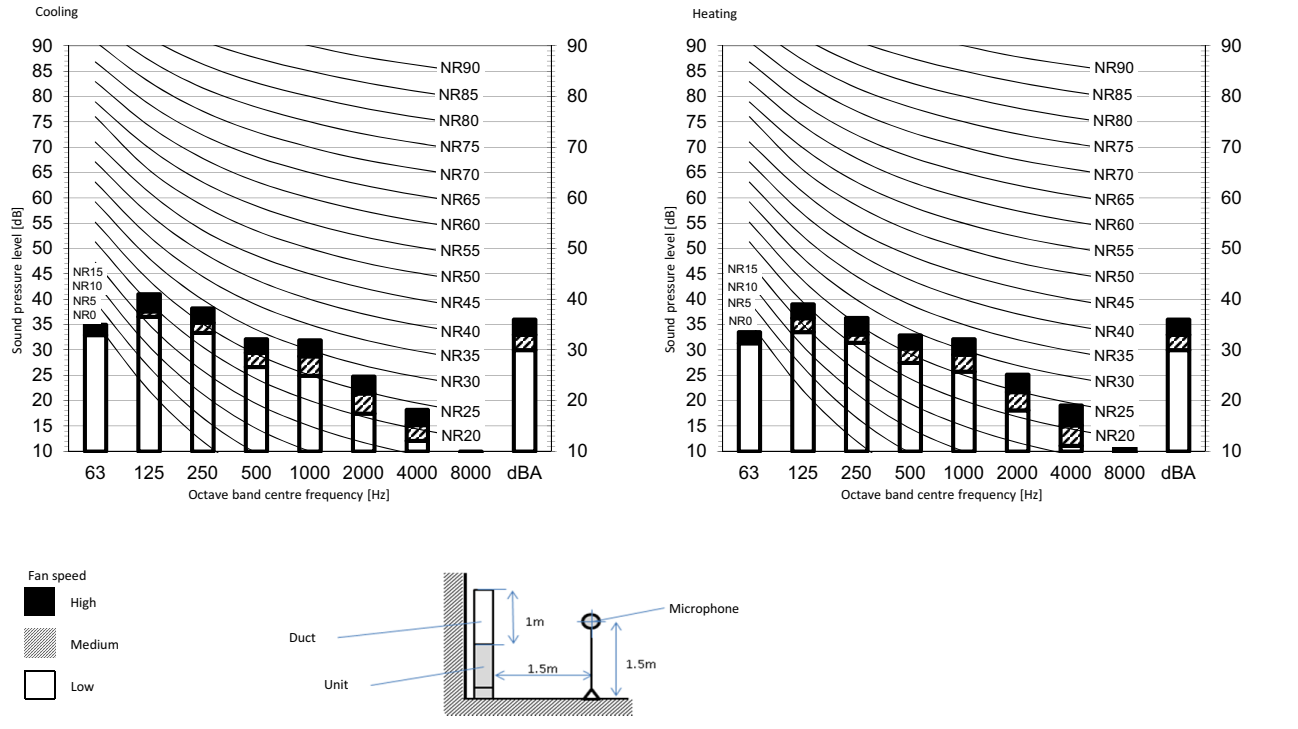
FNQ25-35A



Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

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FNQ50-60A



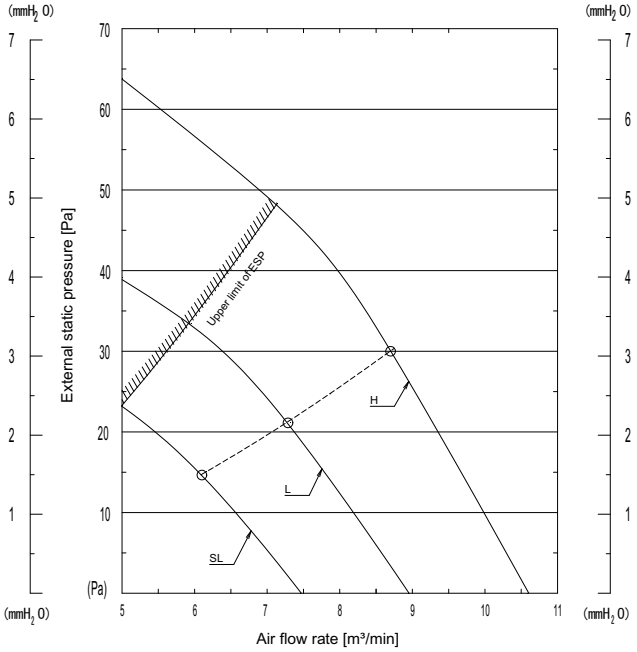
Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

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10 Fan characteristics

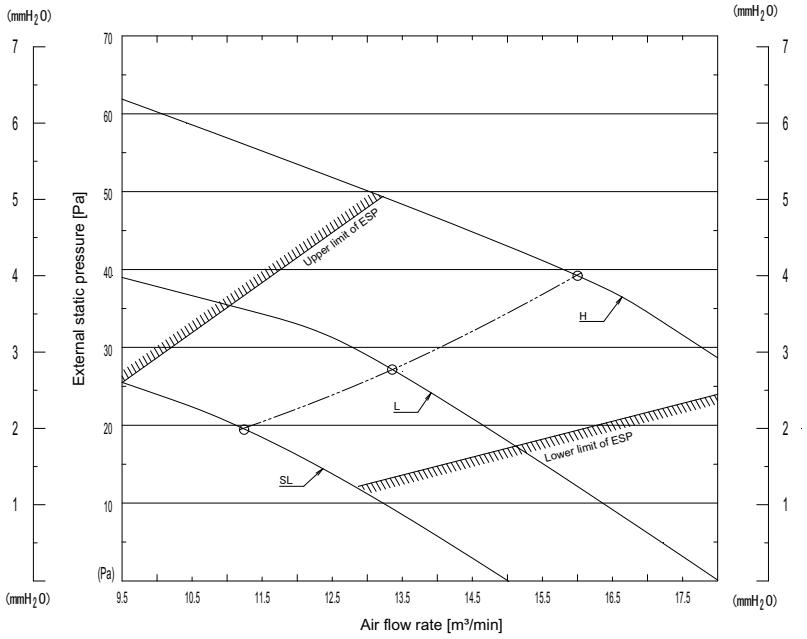
10 - 1 Fan Characteristics

FNQ25-35A



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FNQ50A

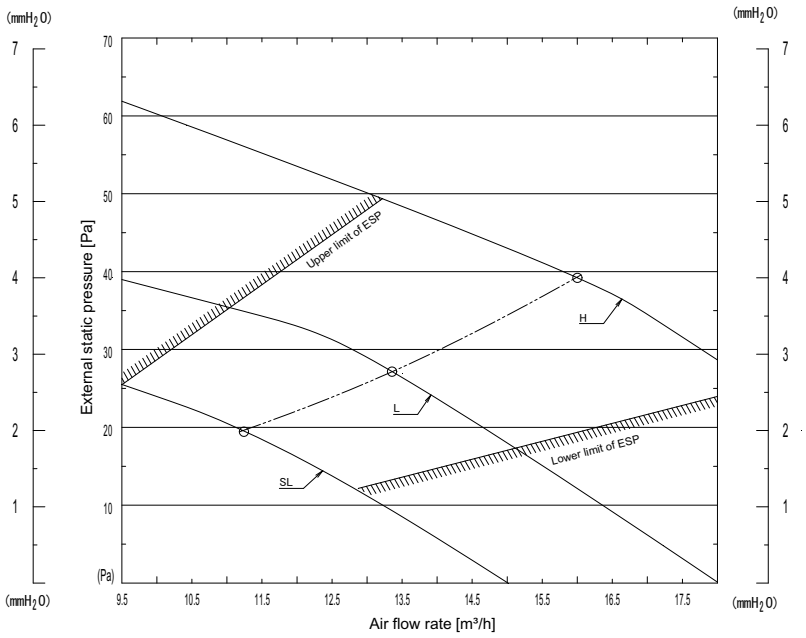


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10 Fan characteristics

10 - 1 Fan Characteristics

FNQ60A



3D081329C

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