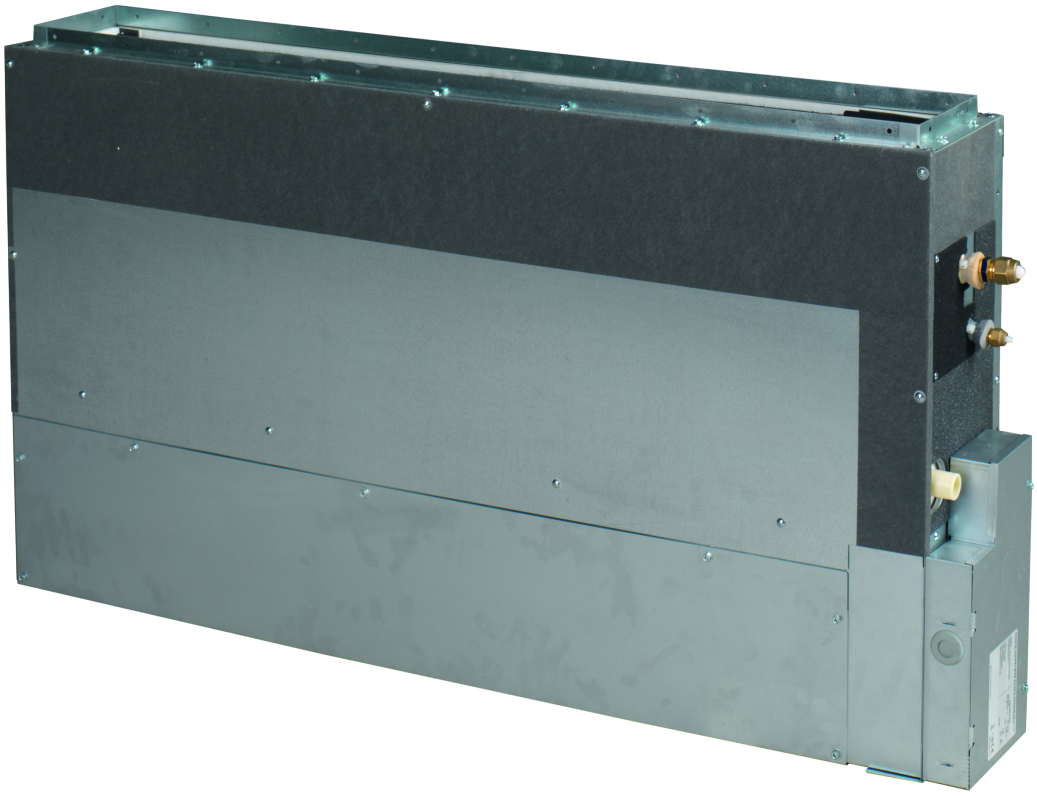
Concealed floor standing unit Air Conditioning Technical Data

FXNQ-A



FXNQ20A2VEB
FXNQ25A2VEB
FXNQ32A2VEB
FXNQ40A2VEB
FXNQ50A2VEB
FXNQ63A2VEB

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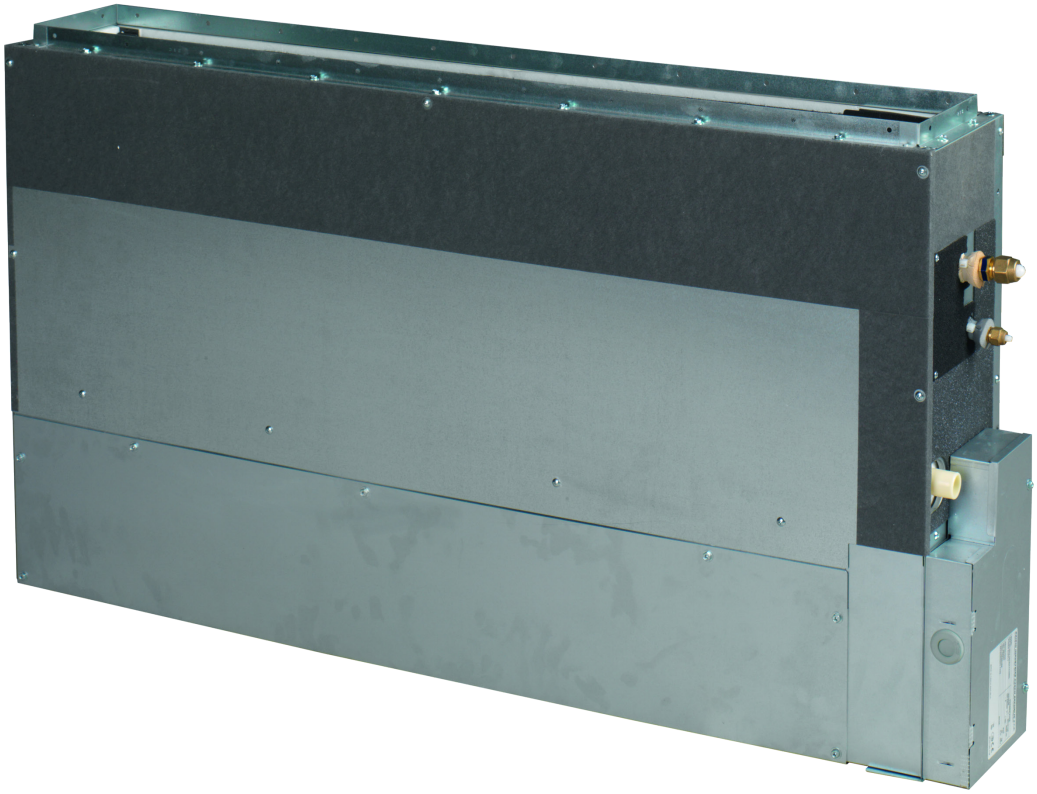
1 Features

1 - 1 FXNQ-A

Designed to be concealed in walls

1

- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 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 (3 steps)

Dry programme

Air filter

Weekly timer (optional)

Infrared remote control (optional)

Wired remote control (optional)

Centralised control (optional)

Auto-restart

Self diagnosis

Multi tenant (optional)

2 Specifications

2 - 1 Specifications

Technical specifications					FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A
Cooling capacity	Sensible capacity	At high fan speed		kW	1.90	2.10	2.60	3.30	4.00	4.90
	Latent capacity	At high fan speed		kW	0.300	0.700	1.00	1.20	1.60	2.20
	Total capacity	At high fan speed		kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fan speed		kW	0.071			0.078	0.099	0.110
	Heating	At high fan speed		kW	0.068			0.075	0.096	0.107
Dimensions	Unit	Height		mm	620 (1) / 720					
		Width		mm	790			990		1,190
		Depth		mm	200					
	Packed unit	Height		mm	265					
		Width		mm	925			1,125		1,325
		Depth		mm	885					
Weight	Unit			kg	23.5			27.5		32.0
	Packed unit			kg	27.5			32.0		37.0
Casing	Colour				Unpainted					
	Material				Galvanised steel plate					
Heat exchanger	Inside length			mm	500			700		900
	Rows	Quantity			2		3			
	Fin pitch			mm	1.50					
	Passes	Quantity			3		6			
	Face area			m^2	0.126			0.176		0.227
	Stages	Quantity			12					
	Empty tubeplate hole	Quantity			0		4	0		
	Tube type				7.0 Hi-XD					
	Fin	Type			Cross fin coil					
Fan	Type				Sirocco fan					
	Quantity				2			3		4
	Air flow rate - 50Hz	Cooling	At high fan speed	m^3/min	8.0			10.5	12.5	16.5
			At medium fan speed	m^3/min	7.20			9.50	11.0	14.5
			At low fan speed	m^3/min	6.4			8.5	10.0	13.0
		Heating	At high fan speed	m^3/min	8.0			10.5	12.5	16.5
			At medium fan speed	m^3/min	7.2			9.5	11.0	14.5
			At low fan speed	m^3/min	6.4			8.5	10.0	13.0
	External static pressure - 50Hz	Factory set		Pa	10			15		
		High		Pa	41.0		42.0	52.0	59.0	55.0
Sound power level	Cooling	At high fan speed		dBA	51			52	53	54
Sound pressure level	Cooling	At high fan speed		dBA	30.0			32.0	33.0	35.0
		At medium fan speed		dBA	28.5			30.0	31.0	33.0
		At low fan speed		dBA	27.0			28.0	29.0	32.0
	Heating	At high fan speed		dBA	30.0			32.0	33.0	35.0
		At medium fan speed		dBA	28.5			30.0	31.0	33.0
		At low fan speed		dBA	27.0			28.0	29.0	32.0
Fan motor	Quantity				1					
	Model				KFD-280-44-8A			KFD-280-65-8A		
	Speed	Steps			3					
	Output	Max		W	44			65		
Refrigerant	Type				R-410A					
	GWP				2,087.5					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6.35					9.52
	Gas	Type			Flare connection					
		OD		mm	12.7					15.9
	Drain				VP20 (I.D. 20/O.D. 26)					
	Heat insulation				Foamed polystyrene / Foamed polyethylene					
	Sound absorbing insulation				Butyl Rubber					
Air filter	Type				Resin net					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					

Electrical specifications			FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A
Power supply	Name		VE					
	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220					

2 Specifications

2 - 1 Specifications

Electrical specifications			FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A
Current - 50Hz	Minimum circuit amps (MCA)	A	0.4			0.5		0.6
	Maximum fuse amps (MFA)	A	16					
	Full load amps (FLA) Total	A	0.3			0.4		0.5

(1)Including installation legs |
(2)The sound power level is an absolute value indicating the power which a sound source generates. |
(3)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
(4)Select wire size based on the value of MCA |
(5)Maximum allowable voltage range variation between phases is 2%. |
(6)Use a circuit breaker instead of a fuse. |
(7)MCA/MFA; MCA= 1,25 x FLA; MFA=< 4 x FLA; The next lower standard fuse rating is minimum 16 ampere. |
(8)Contains fluorinated greenhouse gases |
(9)Next lower standard fuse rating minimum 16A

3 Electrical data

3 - 1 Electrical Data

FXNQ-A

Indoor Units				Power supply		IFM	Power input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	FLA	Cooling	Heating
FXNQ20A	50/60	220-240/220V	Max. 264V/Max. 242V Min. 198V/Min. 198V	0.4	16	0.3	71	68
FXNQ25A								
FXNQ32A								
FXNQ40A				0.5		0.4	78	75
FXNQ50A							99	96
FXNQ63A				0.6		0.5	110	107

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps. (A)

NOTES

1 Voltage range
Units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above the listed range limits.
2 Select wire size based on the MCA.
3 Maximum allowable voltage unbalance between phases is 2%.
4 Instead of fuse, use circuit breaker.
5 MCA/MFA
MCA=1.25xFLA
MFA≤4xFLA
(next lower standard fuse rating min. 16A)

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4 Safety device settings

4 - 1 Safety Device Settings

FXNQ-A

	Safety devices		20	25	32	40	50	63
FXNQ	Printed circuit board (main)		250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A
	Fan motor thermal protector	°C	----	----	----	----	----	----

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5 Options

5 - 1 Options

FXNQ-A

Option kit		Product name	Availability	
			FXNQ20-63A2VEB	FNQ25-60A2VEB
Individual control systems	Wired remote control	BRC1E53A7/B7/C7, BRC1D528, BRC1H52W/S/K, BRC1H82W/S	✓	✓
	Simplified remote control for hotel use	BRC2E52C7③	✓	✓
	Stylish remote control	BRC1E52A, BRC1E52B	✓	✓
	Remote control for hotel use	BRC2E52C7③	✓	✓
	Wireless remote control	BRC4C65	✓	✓
Centralised control systems	Central remote control	DCS302CA51, DSC302CA61①	✓	✓
	Unified ON/OFF controller	DSC301BA51, DCS301BA61①	✓	✓
	Schedule timer	DST301BA51, DST301BA61①	✓	✓
	Residential central remote control	DCS303A51①②	✓	✓
Other options	Adaptor for wiring	KRP1B56	✓	✓
	Wiring adaptor for electrical appendices ·1·	KRP2A53	✓	
	Wiring adaptor for electrical appendices ·2·	KRP4A54	✓	✓
	Remote sensor	KRCS01-4B	✓	✓
	Service space of installation box for adaptor PCB.	KRP1BA101	✓	✓
	Electrical box with earth terminal (·2· blocks)	KJB212AA	✓	✓
	Electrical box with earth terminal (·3· blocks)	KJB312AA	✓	✓
	Noise filter (for electromagnetic interface only)	KEK26-1A	✓	✓
	External adaptor for outdoor unit (installation on indoor unit)	DTA104A53	✓	
	Multi-tenant	DTA114A61	✓	
	Digital input adaptor	BRP7A54④⑤	✓	✓

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 ·KRP1B(A)101·.

⑤ Only possible in combination with ·BRC2/3E52C7, BRC1E53A/B/C7, BRC1H52W/S/K, BRC1H82W/S·

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6 Capacity tables

6 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
  https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html

- An overview of **all software tools** that we offer can be found here:
  https://my.daikin.eu/denv/en_US/home/applications/software-finder.html

6 Capacity tables

6 - 2 Cooling Capacity Tables

FXNQ-A

Unit size	Outdoor °CDB	Indoor air temp.													
		14.0 WB		16.0 WB		18.0 WB		19.0 WB		20.0 WB		22.0 WB		24.0 WB	
		20.0 DB		23.0 DB		26.0 DB		27.0 DB		28.0 DB		30.0 DB		32.0 DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
15	35.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.5	1.8	1.4	1.8	1.4	1.9	1.4
20	35.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.7	2.4	1.8
25	35.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0
32	35.0	2.4	1.9	2.9	2.2	3.4	2.4	3.6	2.6	3.8	2.6	3.9	2.5	4.0	2.5
40	35.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.7	3.2	4.9	3.1	5.0	3.2
50	35.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	5.9	4.0	6.0	3.9	6.2	3.7
63	35.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.5	4.8	7.7	4.8	7.8	4.8

TC: Total capacity (kW)
SHC:Sensible heating capacity (kW)

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6 Capacity tables

6 - 3 Heating Capacity Tables

FXNQ-A

Unit size	Outdoor air temp.		On coil temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
63	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0

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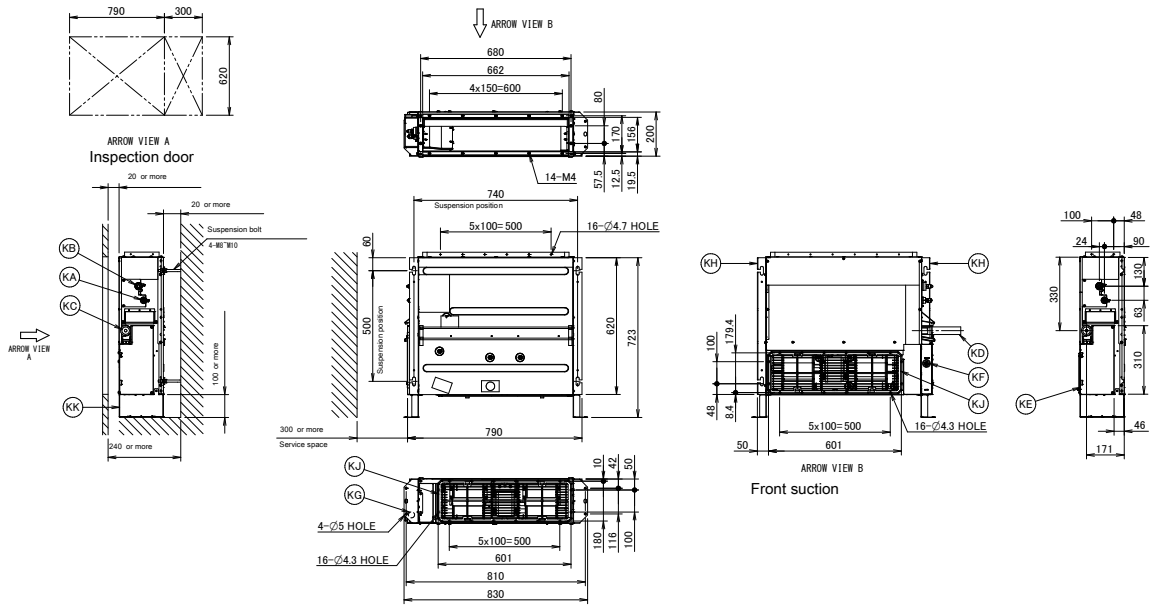
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXNQ20-32A



Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø12.7 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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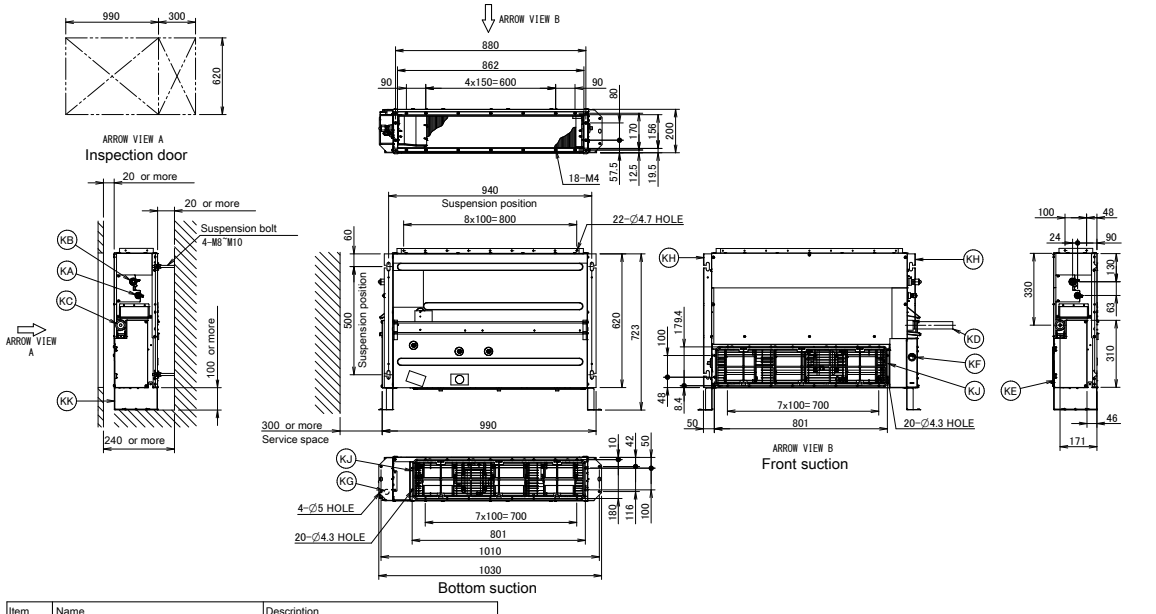
FXNQ40-50A



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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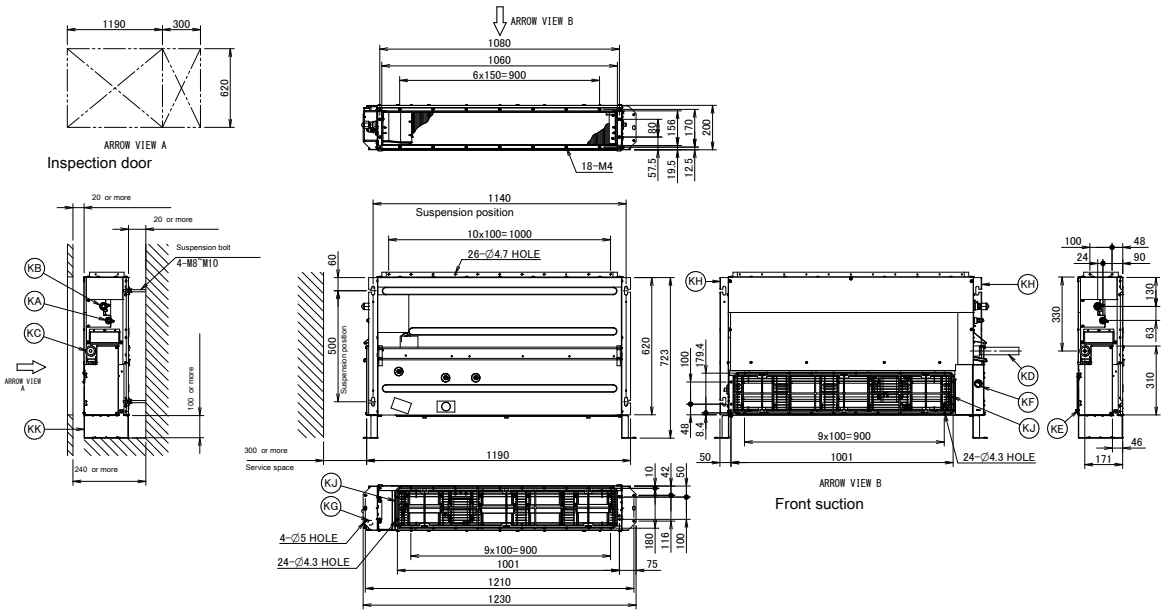
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXNQ63A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.9 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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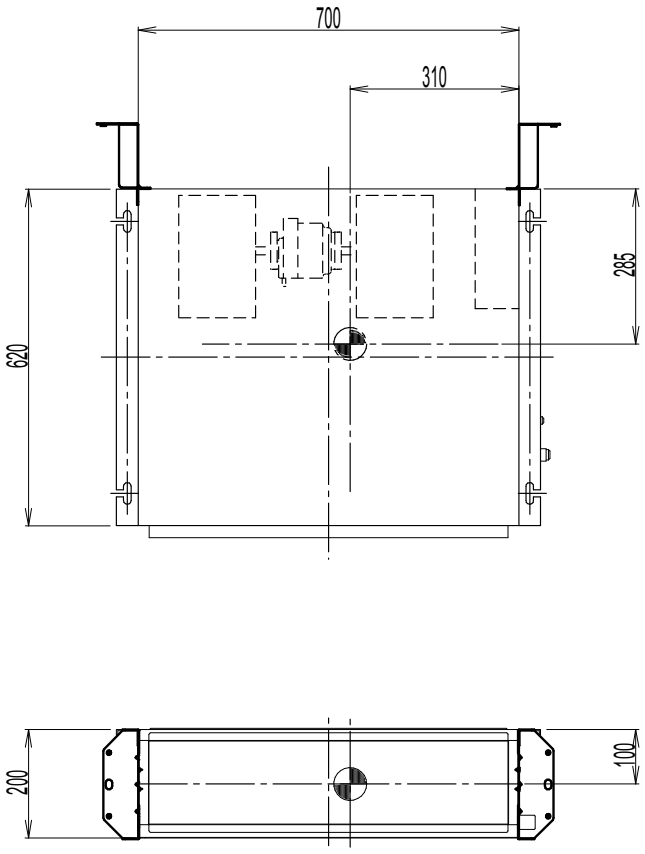
8 Centre of gravity

8 - 1 Centre of Gravity

FXNQ20-32A



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8 Centre of gravity

8 - 1 Centre of Gravity

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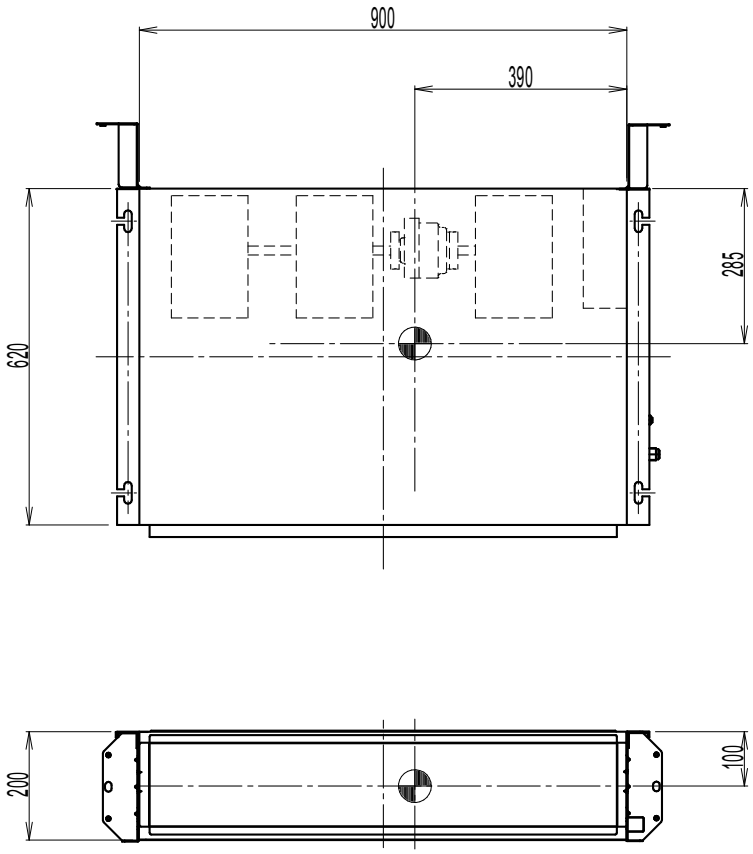
FXNQ40-50A



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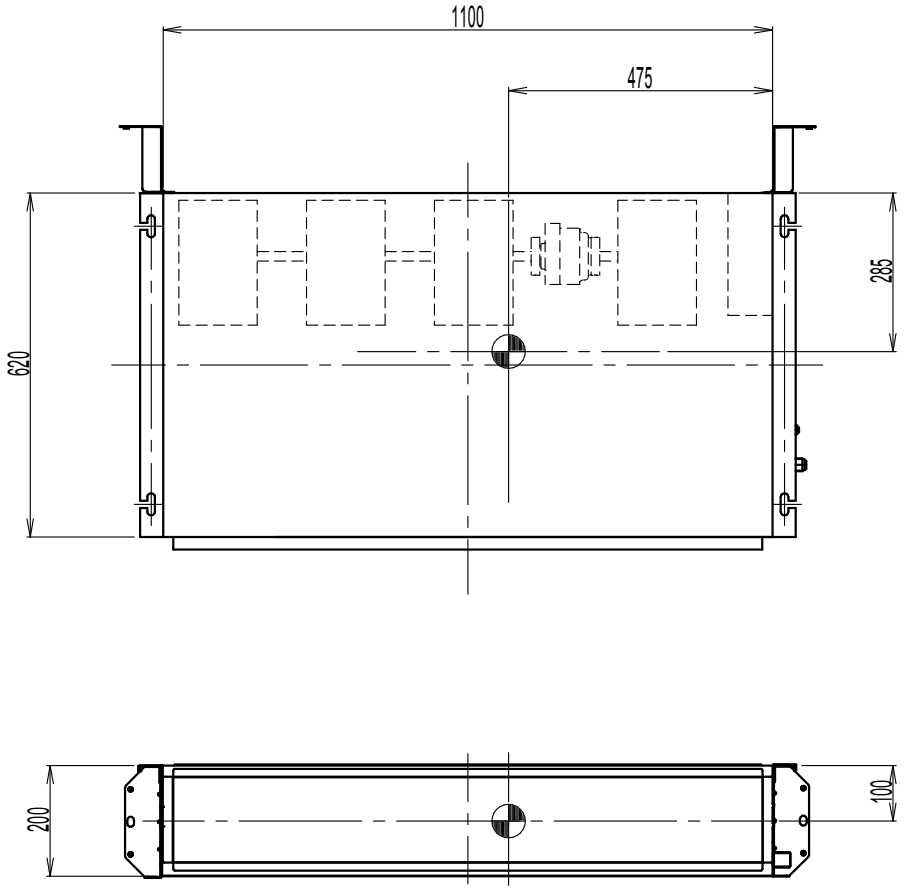
8 Centre of gravity

8 - 1 Centre of Gravity

FXNQ63A



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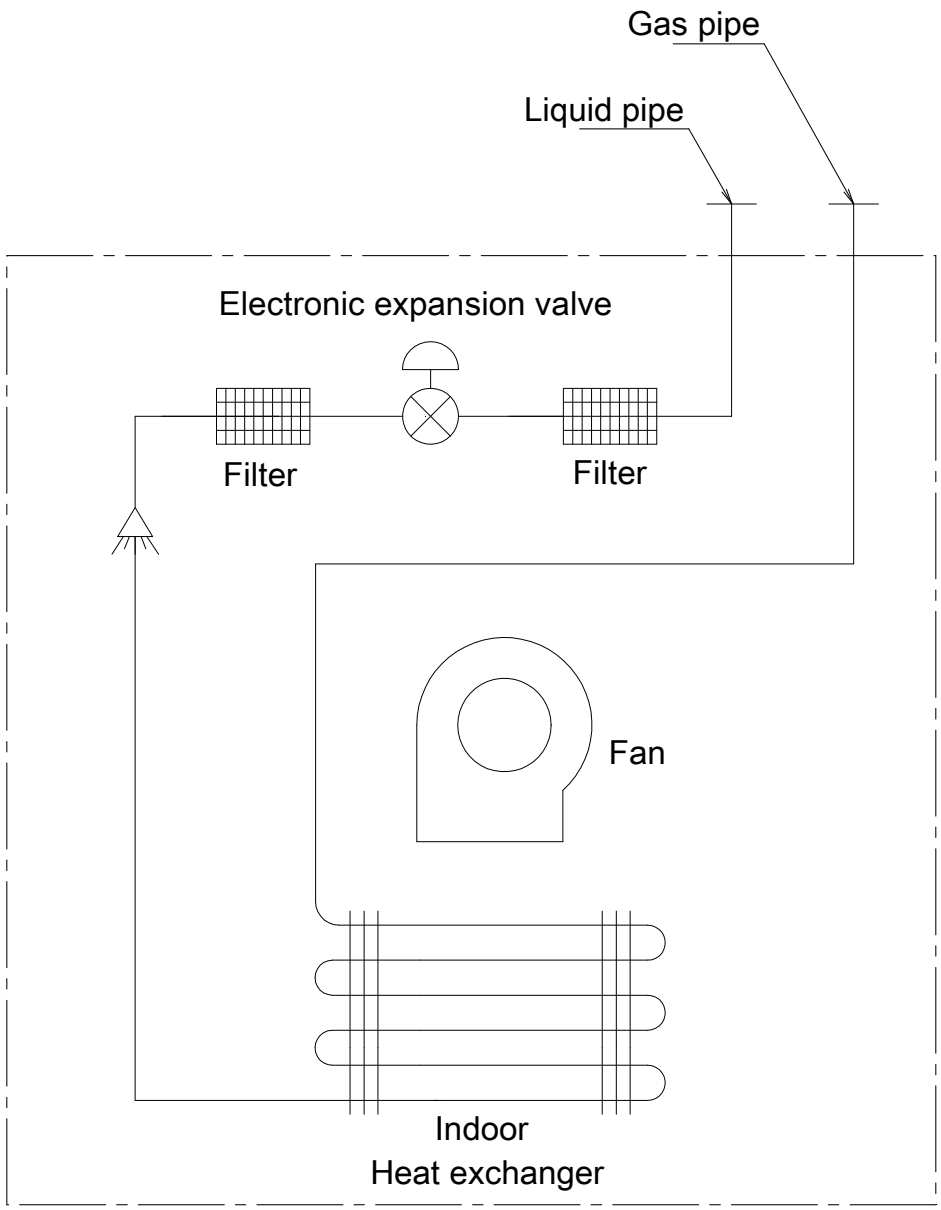
9 Piping diagrams

9 - 1 Piping Diagrams

FXNQ-A



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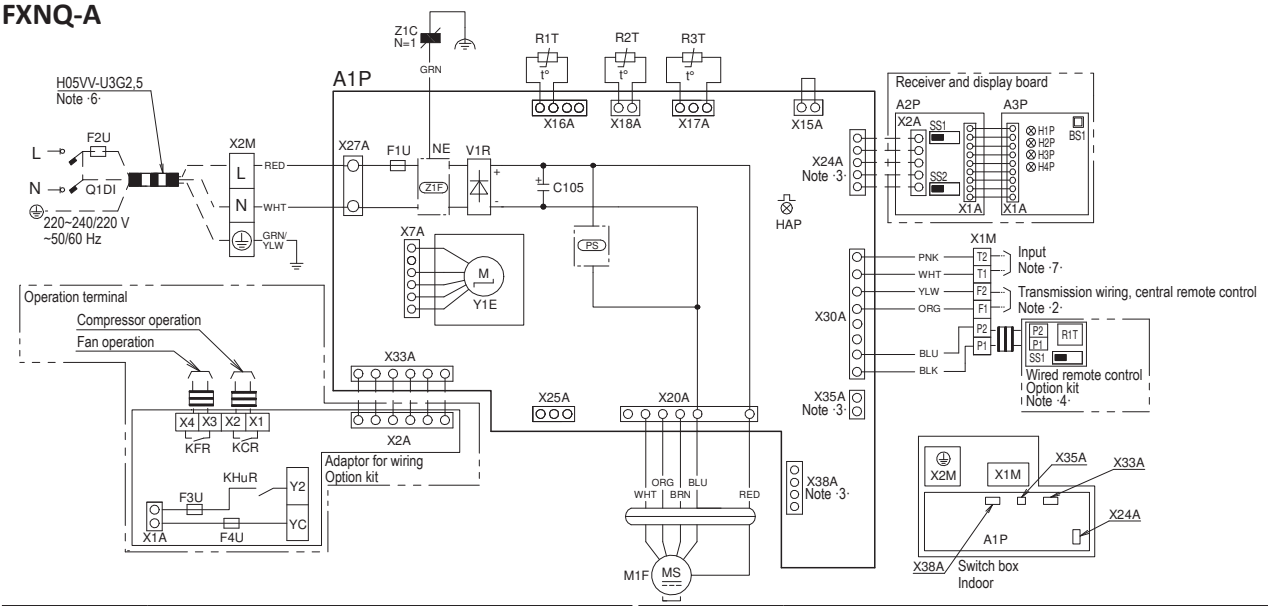
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXNQ-A



Indoor unit	
A1P	Printed circuit board
C105	Capacitor
PS	Power supply
F1U	Fuse ·(T,3,15A,250V)·
F2U	Field fuse
Z1C	Ferrite core
HAP	Light-emitting diode (service monitor is green)
M1F	Motor (fan)
Q1DI	Earth leakage detector
R1T	Thermistor (air)
R2T, R3T	Thermistor (coil)
V1R	Diode bridge
X1M	Terminal block (control)
X2M	Terminal block (power)
Y1E	Electronic expansion valve
Z1F	Noise filter
Receiver and display board	
A2P	Printed circuit board
A3P	Printed circuit board
BS1	Push button ·(ON/OFF)·

H1P	Light-emitting diode (on - red)
H2P	Light-emitting diode (filter diagnostic - red)
H3P	Light-emitting diode (timer - green)
H4P	Light-emitting diode (defrost - orange)
SS1	Select switch (main/sub)
SS2	Select switch (wireless address set)
Connector (optional accessories)	
X24A	Connector Wireless remote control
X33A	Connector Adaptor for wiring
X35A	Connector Power supply
X38A	Connector Multi-tenant
Adaptor for wiring	
F3U, F4U	Fuse ·((B), 5A, 250V)·
KFR, KCR, KHuR	Magnetic relay
Wired remote control	
R1T	Thermistor (air)
SS1	Select switch (main/sub)

NOTES

1. □□□□: terminal block, ⊙⊙, ⊐: connector, ▪▪▪: field wiring,
   • : wire clamp, ⏚: Protective earth (screw), L: Live, N: Neutral
2. When using a central remote control, connect it to the unit according to the installation manual.
3. ·X24A, X33A, X35A,X38A· are connectors for the optional accessories.
4. For how to switch between the main unit and the sub units, refer to the installation manual of the remote control.
5. Colours: blk:black; red:red; blu:blue; wht:white; grn:green; ylw:yellow; brn:brown; org:orange; pnk:pink; gry: grey; prp: purple
6. If the piping is protected, use cable type ·H05VV-U3G2,5·. If the piping is not protected, use cable type ·H07RN-F·.
7. When connecting the input wires from outside, forced OFF or On/OFF control operation can be selected by remote control. For details, refer to the installation manual.

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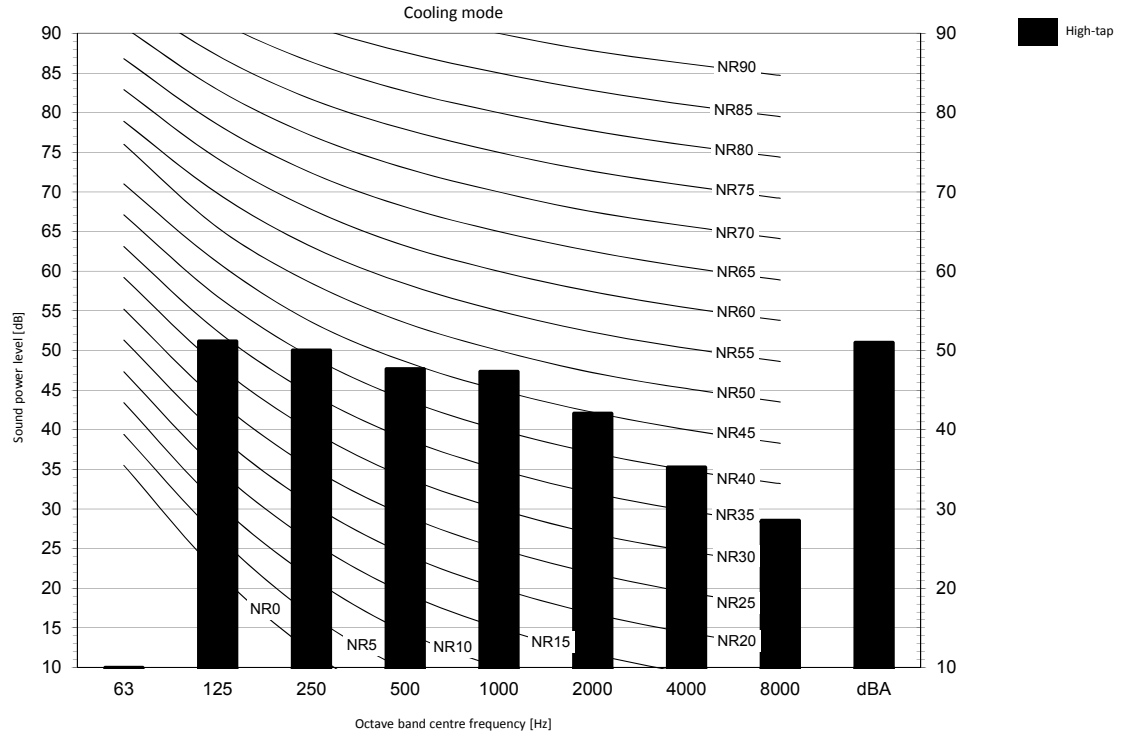
11 Sound data

11 - 1 Sound Power Spectrum

FXNQ20-32A



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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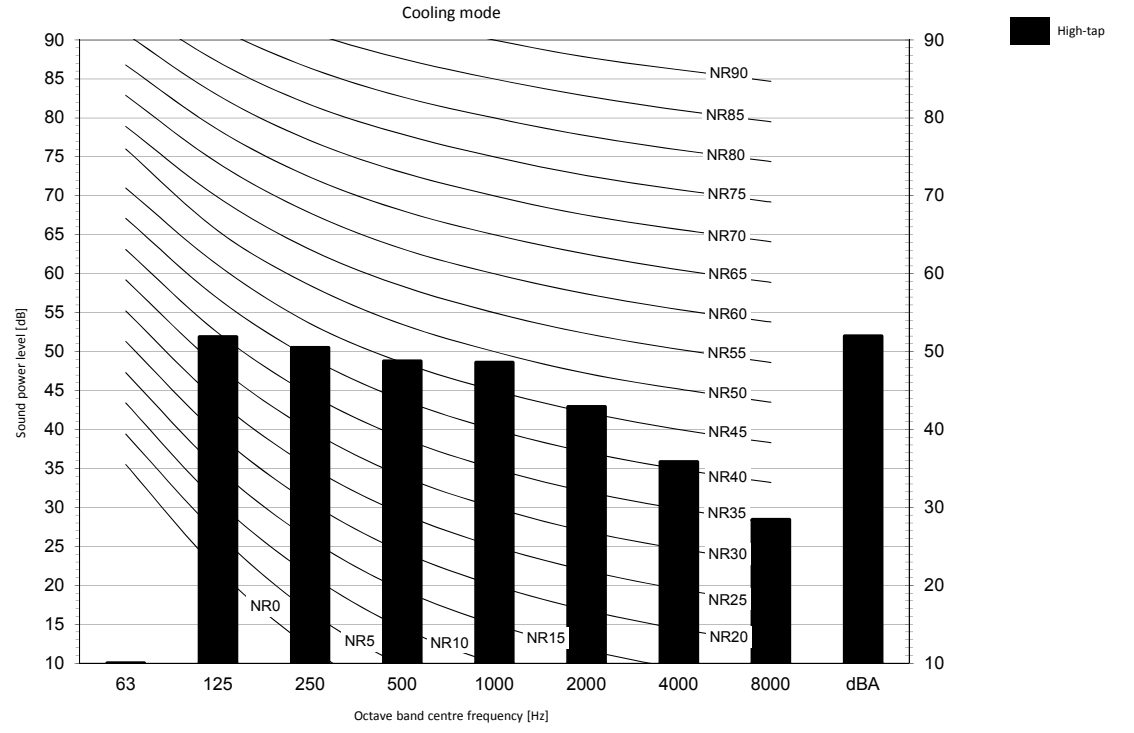
FXNQ40A



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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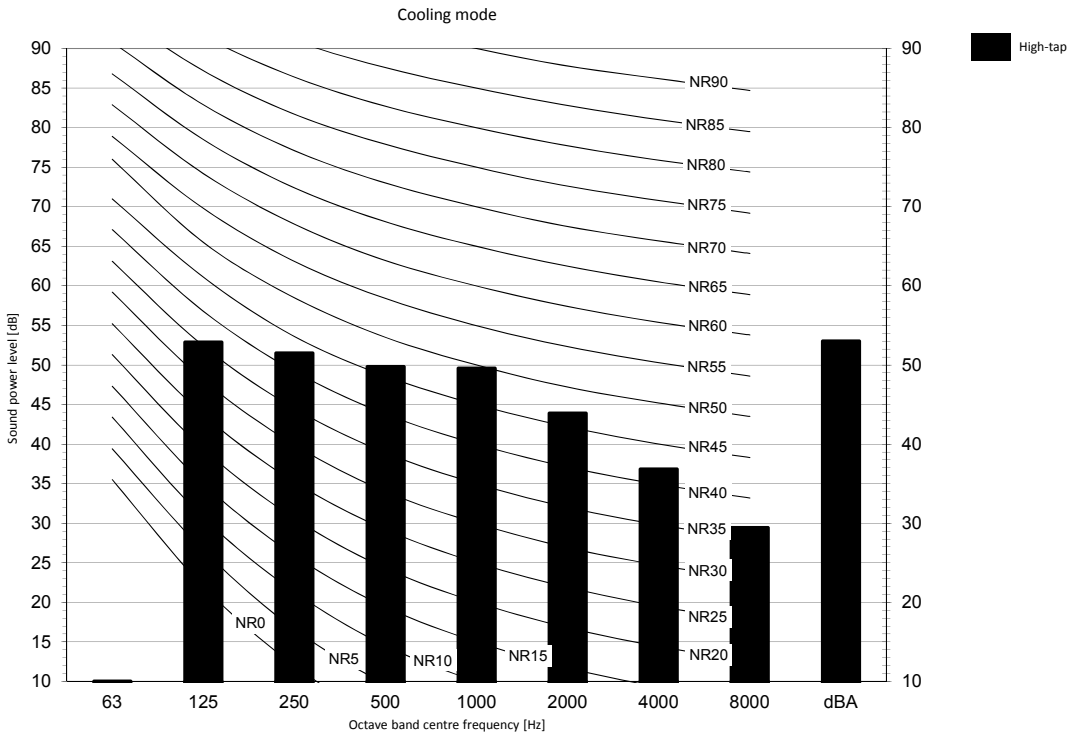
11 Sound data

11 - 1 Sound Power Spectrum

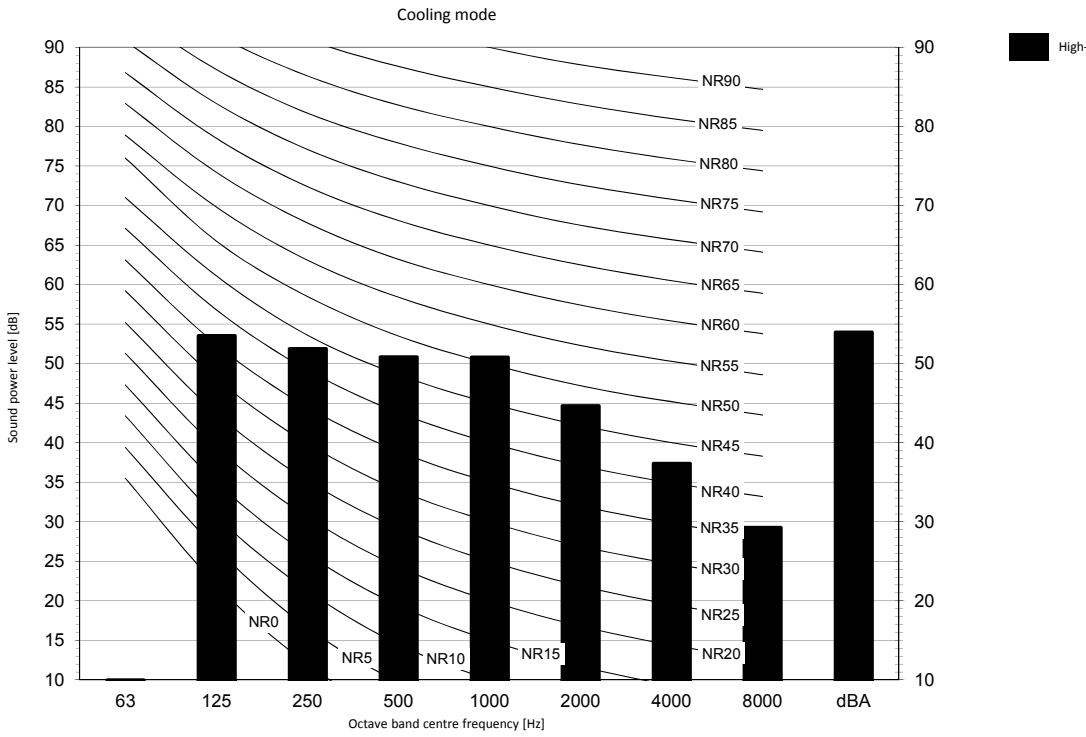
FXNQ50A



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

3D096619

FXNQ63A



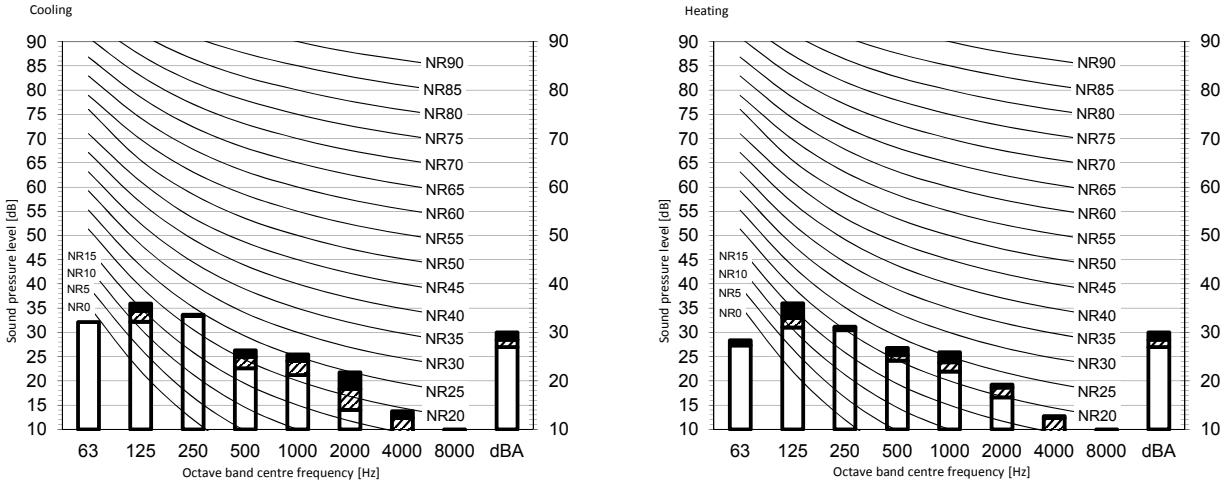
Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10E-6µW/m2
3. Measured according to ISO 3744

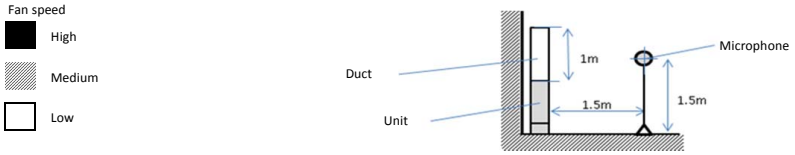
3D096620

11 Sound data

11 - 2 Sound Pressure Spectrum

FXNQ20-32A

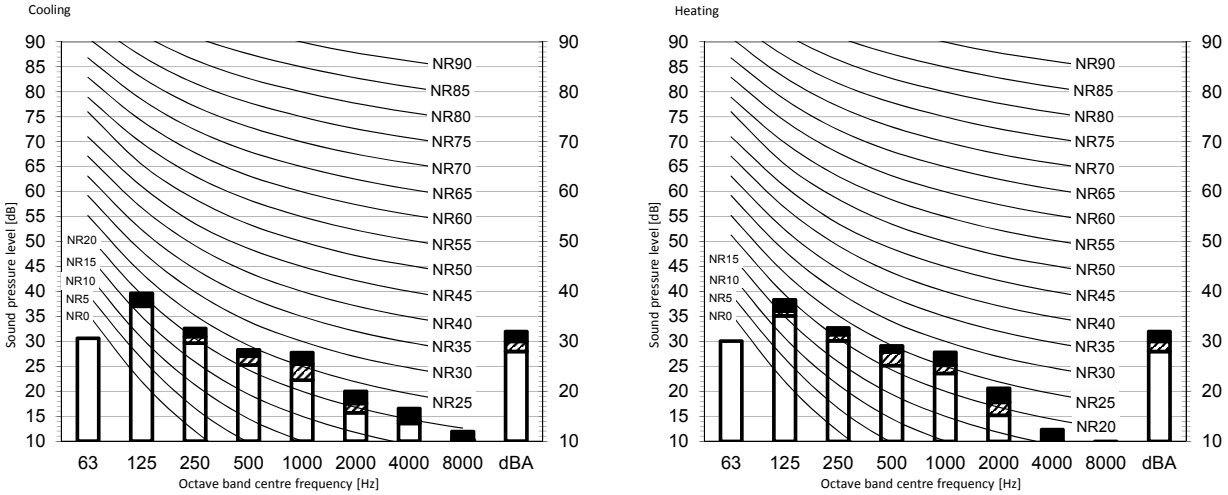


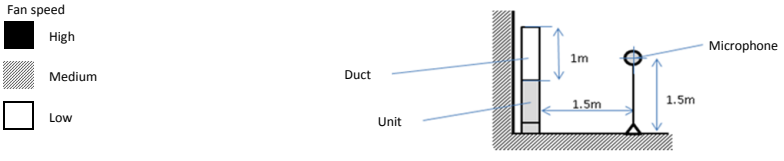


Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

3D096735

FXNQ40A





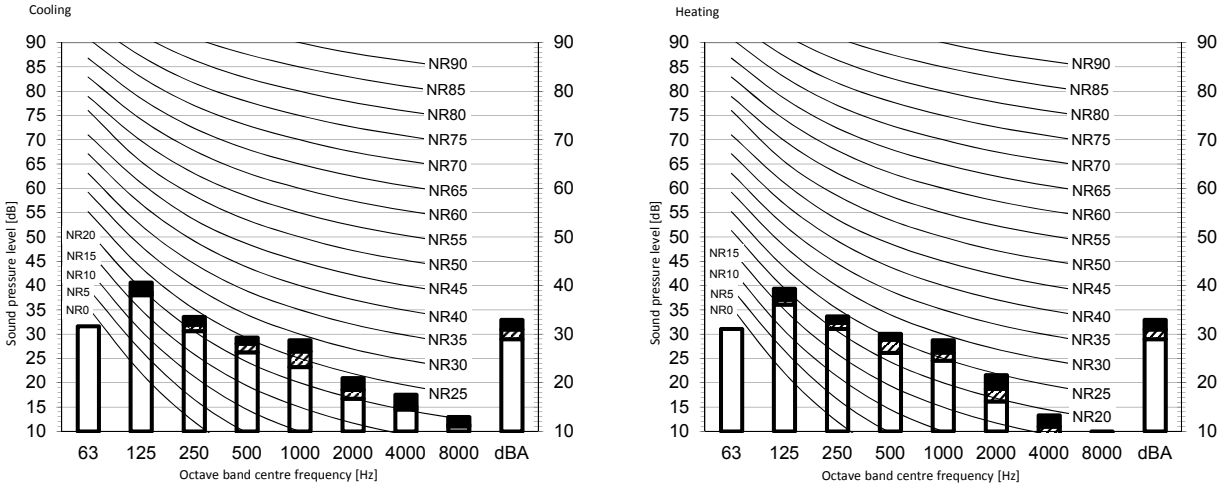
Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

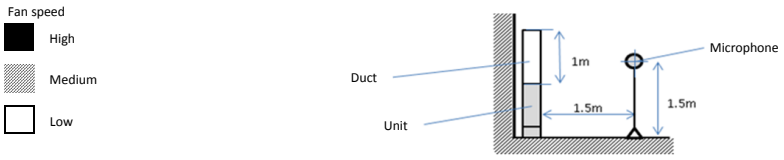
3D096736

11 Sound data

11 - 2 Sound Pressure Spectrum

FXNQ50A

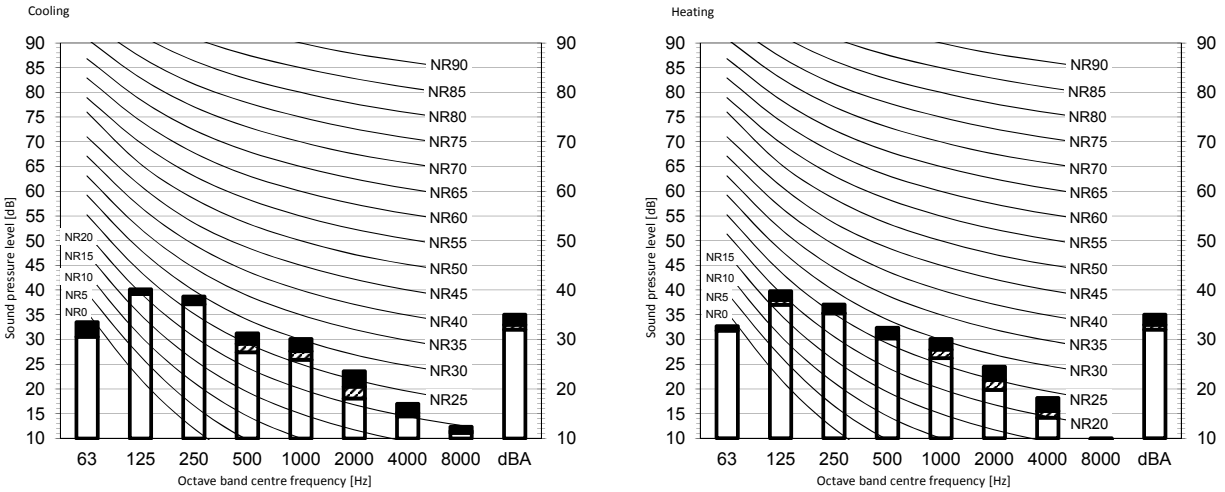


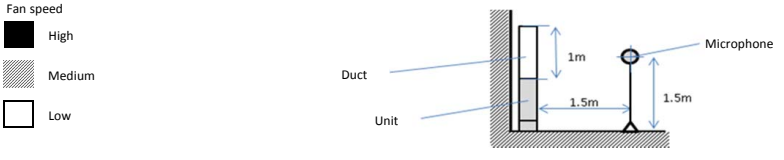


Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

3D096737

FXNQ63A





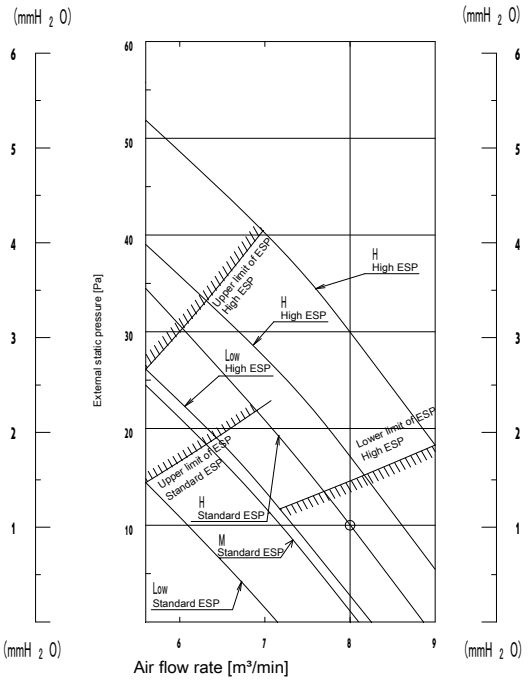
Notes
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 µPa

3D096738

12 Fan characteristics

12 - 1 Fan Characteristics

FXNQ20-25A



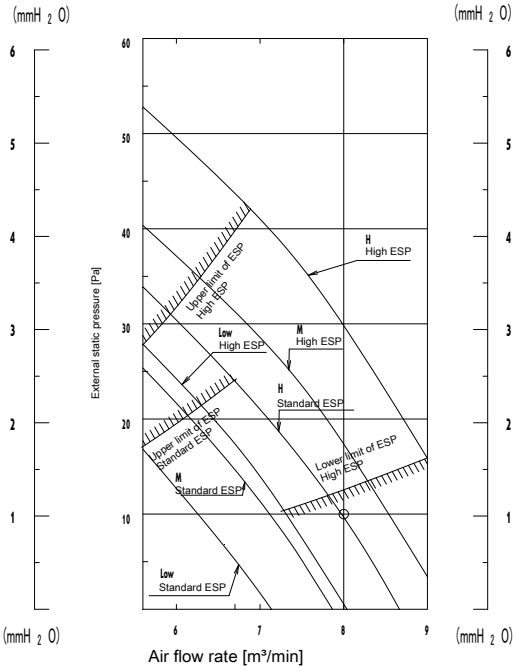
Notes

The remote controller can be used to switch between 'high' and 'low'.

The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D086736B

FXNQ32A



Notes

The remote controller can be used to switch between 'high' and 'low'.

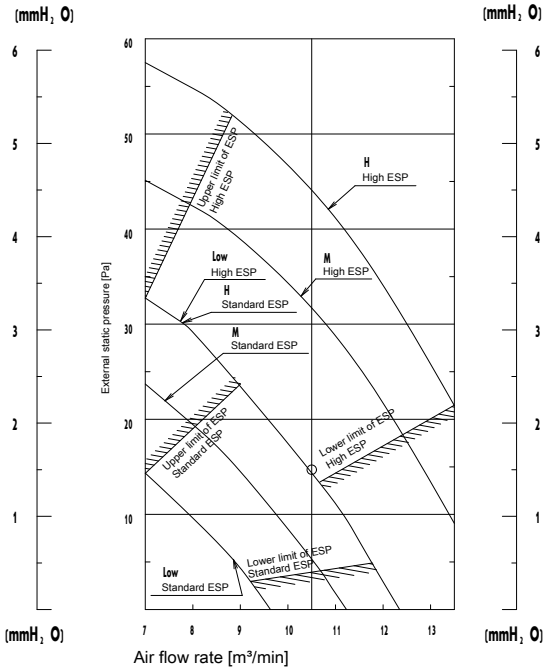
The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081425C

12 Fan characteristics

12 - 1 Fan Characteristics

FXNQ40A



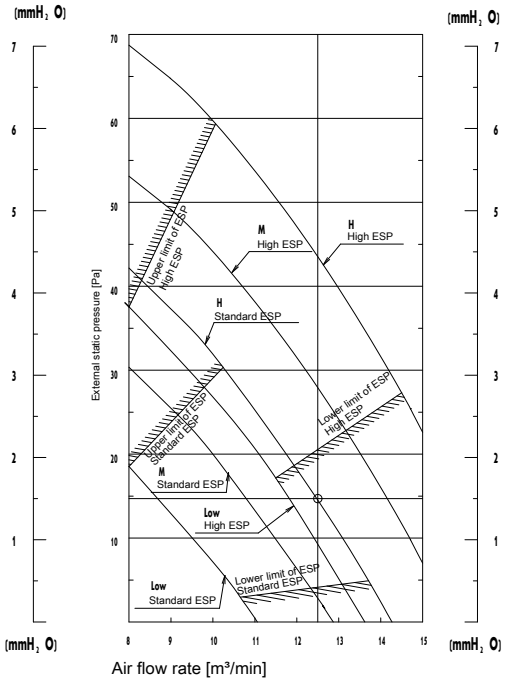
Notes

The remote controller can be used to switch between 'high' and 'low'.

The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C

FXNQ50A



Notes

The remote controller can be used to switch between 'high' and 'low'.

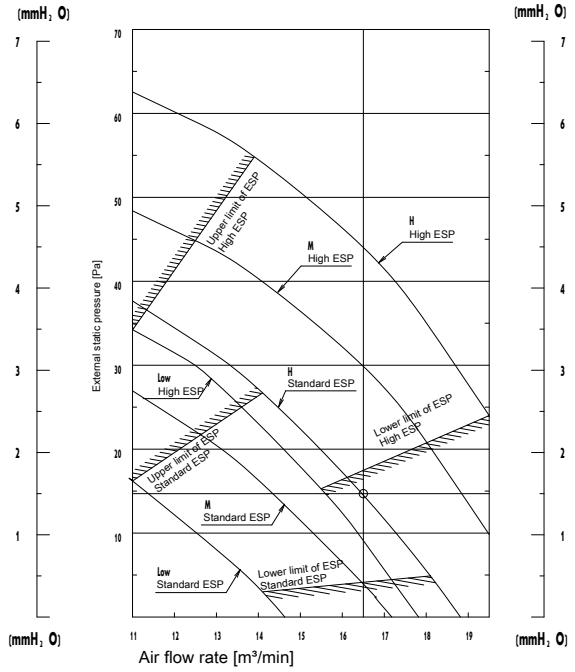
The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081427C

12 Fan characteristics

12 - 1 Fan Characteristics

FXNQ63A



Notes

The remote controller can be used to switch between 'high' and 'low'.

The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081429C

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