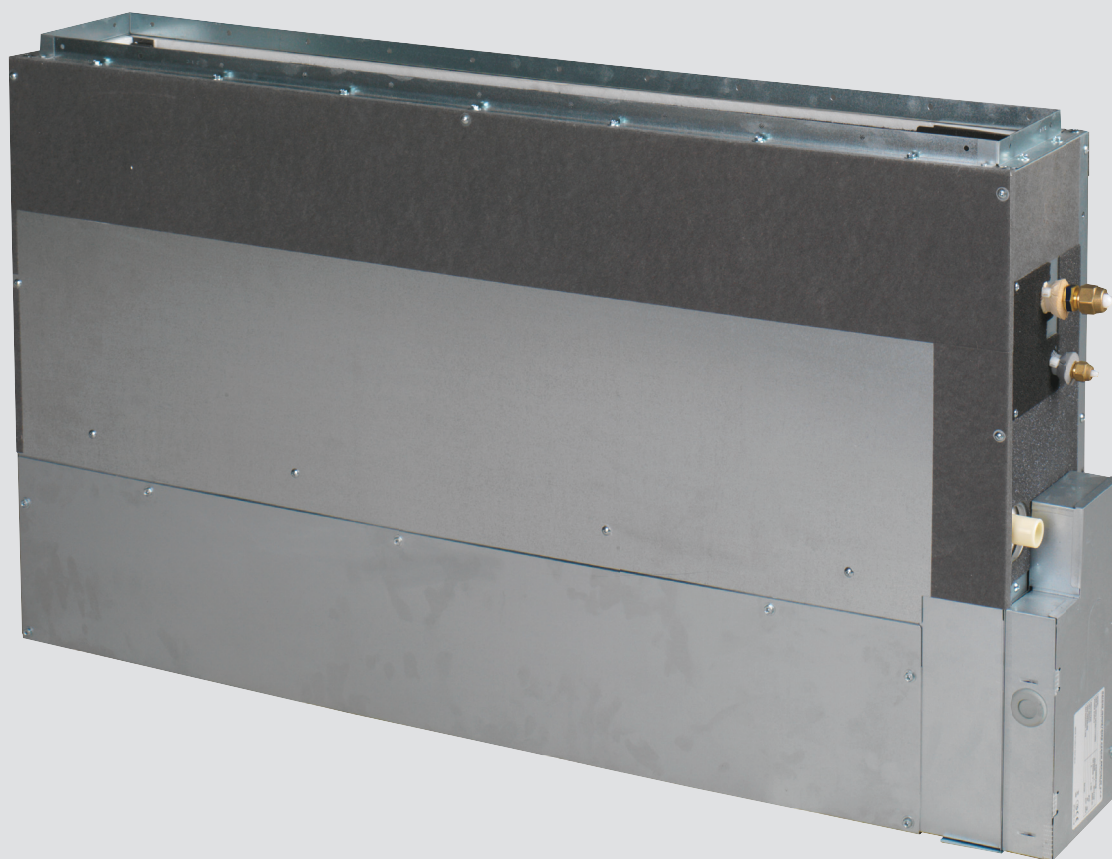


Air Conditioning Technical Data

FXNQ-A



- > FXNQ20A2VEB
- > FXNQ25A2VEB
- > FXNQ32A2VEB
- > FXNQ40A2VEB
- > FXNQ50A2VEB
- > FXNQ63A2VEB

TABLE OF CONTENTS

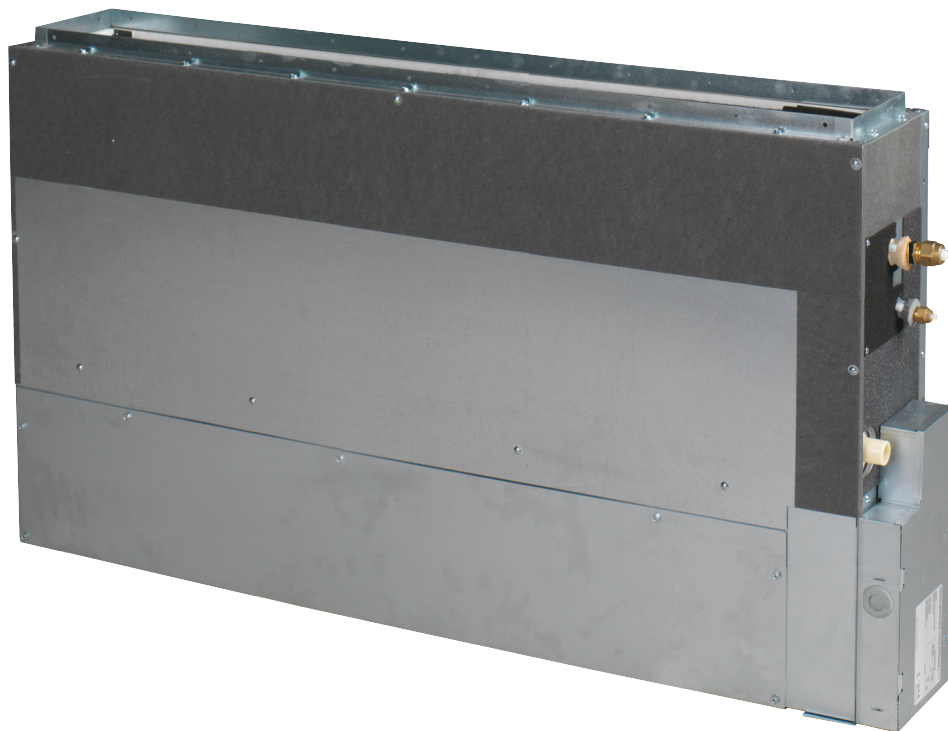
FXNQ-A

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	3
3	Electrical data	5
4	Safety device settings	6
5	Options	7
6	Capacity tables	8
	Cooling Capacity Tables	8
	Heating Capacity Tables	9
7	Dimensional drawings	10
8	Centre of gravity	12
9	Piping diagrams	15
10	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
11	Sound data	17
	Sound Power Spectrum	17
	Sound Pressure Spectrum	19
12	Fan characteristics	21

1 Features

Designed to be concealed in walls

- 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



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant

2 Specifications

2-1 Technical Specifications					FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A	
Cooling capacity	Nom.				kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Nom.				kW	2.5	3.2	4.0	5.0	6.3	8.00
Power input - 50Hz	Cooling	Nom.		kW	0.071			0.078	0.099	0.110	
	Heating	Nom.		kW	0.068			0.075	0.096	0.107	
Dimensions	Unit	Height	mm		620 / 720 (1)						
		Width	mm		750			950		1,150	
		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
	Packed unit				kg	27.5			32		37
Casing	Colour				Unpainted						
	Material				Galvanised steel plate						
Heat exchanger	Type				Cross fin coil (multi slit fins with hydrophilic treatment ø7 Hi-XD tubes)						
Fan	Type				Sirocco fan						
	Quantity				2			3		4	
	Air flow rate - 50Hz	Cooling	High	m³/min	8.0			10.5	12.5	16.5	
			Nom.	m³/min	7.2			9.5	11	14.5	
			Low	m³/min	6.4			8.5	10.0	13.0	
		Heating	High	m³/min	8.0			10.5	12.5	16.5	
			Nom.	m³/min	7.2			9.5	11	14.5	
			Low	m³/min	6.4			8.5	10.0	13.0	
	External static pressure - 50Hz	High		Pa	41 (2)		42 (2)	52 (2)	59 (2)	55 (2)	
		Nom.		Pa	10			15			
Fan motor	Quantity				1						
	Model				KFD-280-44-8A			KFD-280-65-8A			
	Speed	Steps			3						
	Output	High		W	44			65			
Air filter	Type				Resin net with mold resistance						
Sound power level	Cooling	High		dBA	51			52	53	54	
Sound pressure level	Cooling	High		dBA	30			32	33	35	
		Nom.		dBA	28.5			30	31	33	
		Low		dBA	27			28	29	32	
	Heating	High		dBA	30			32	33	35	
		Nom.		dBA	28.5			30	31	33	
		Low		dBA	27			28	29	32	
Refrigerant	Type				R-410A						
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						
Control systems	Infrared remote control				BRC4C65						
	Wired remote control				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						
2-2 Electrical Specifications					FXNQ20A	FXNQ25A	FXNQ32A	FXNQ40A	FXNQ50A	FXNQ63A	
Power supply	Phase				1~						
	Frequency			Hz	50/60						
	Voltage			V	220-240/220						
Voltage range	Min.			%	-10						
	Max.			%	10						

2 Specifications

2-2 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

2

Notes

(1) Including installation legs

(2) Contains fluorinated greenhouse gases

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

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Select wire size based on the value of MCA

Maximum allowable voltage range variation between phases is 2%.

Use a circuit breaker instead of a fuse.

MCA/MFA; MCA= 1,25 x FLA; MFA= < 4 x FLA; The next lower standard fuse rating is minimum 16 ampere.

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				0.5		0.4	78	75
FXNQ32A								
FXNQ40A								
FXNQ50A								
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)

3D096320A

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	—	—	—	—	—

3D097180

5 Options

5 - 1 Options

FXNQ-A

	Optional equipment	Part name	Status	Availability
				VRV FXNQ20A2VEB FXNQ25A2VEB FXNQ32A2VEB FXNQ40A2VEB FXNQ50A2VEB FXNQ63A2VEB
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 DCS302CA61 (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
	Adaptor for wiring	KRP1B56	Current	X
Other options	Wiring adaptor for electrical appendices 1	KRP2A53	Current	X
	Wiring adaptor for electrical appendices 2	KRP4A54	Current	X
	Remote sensor	KRC501-4B	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	X
	Multi-tenant	DTA114A61	Current	X
	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.

3D096739

6 Capacity tables

6 - 1 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)

3TW32902-4A

6 Capacity tables

6 - 2 Heating Capacity Tables

FXNQ-A

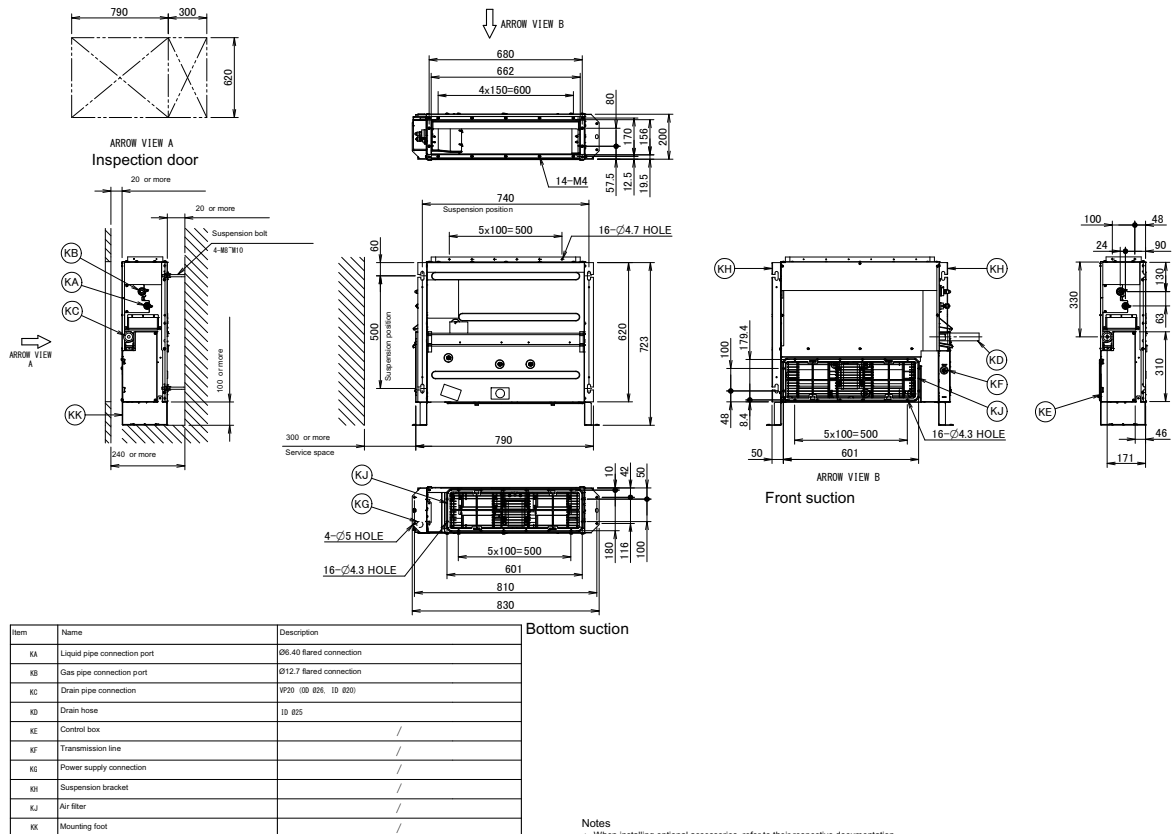
Unit size	Outdoor air temp.		On coil temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0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

3TW32902-3

7 Dimensional drawings

7 - 1 Dimensional Drawings

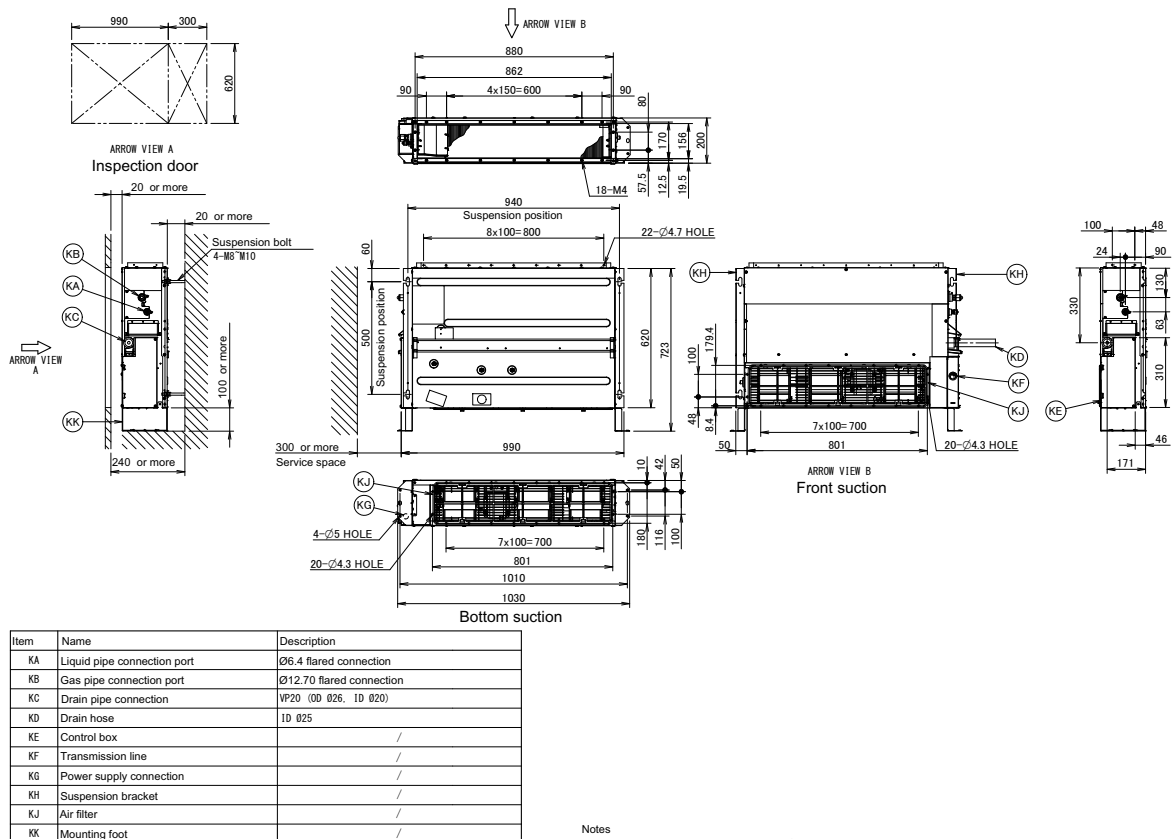
FXNQ20-32A



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

3D096749A

FXNQ40-50A



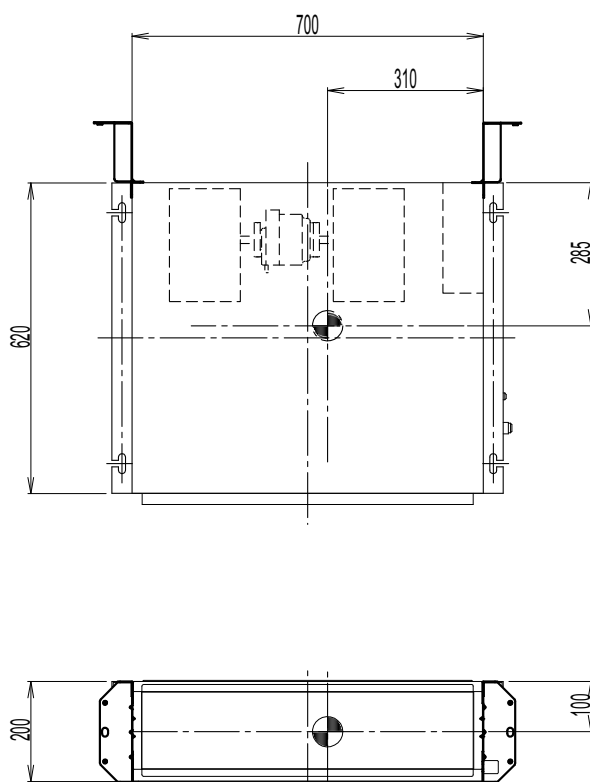
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D096747

8 Centre of gravity

8 - 1 Centre of Gravity

FXNQ20-32A

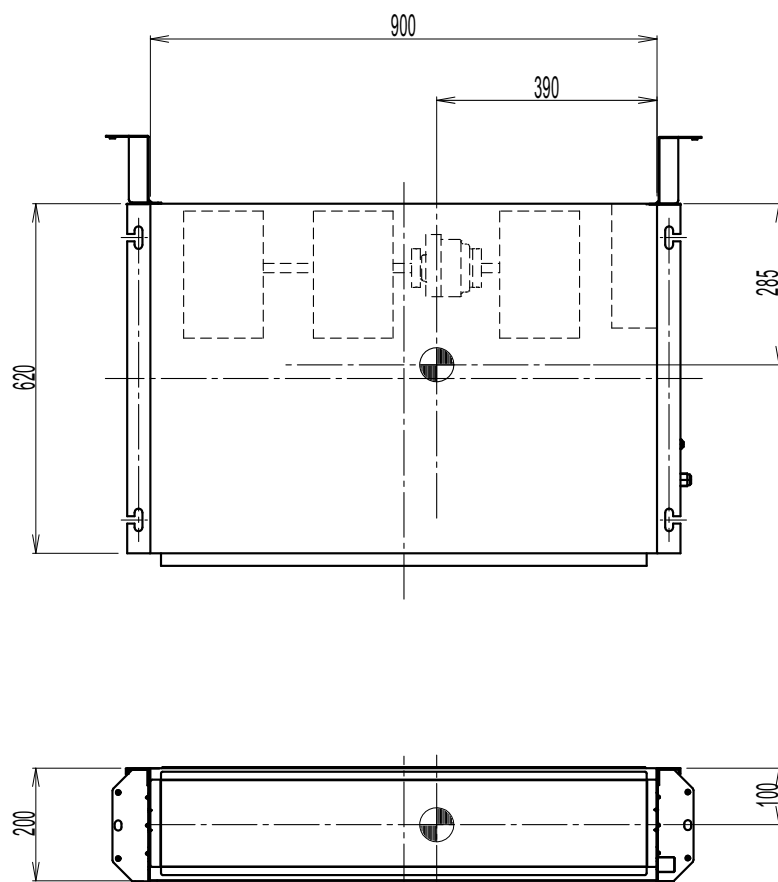


4D096841A

8 Centre of gravity

8 - 1 Centre of Gravity

FXNQ40-50A

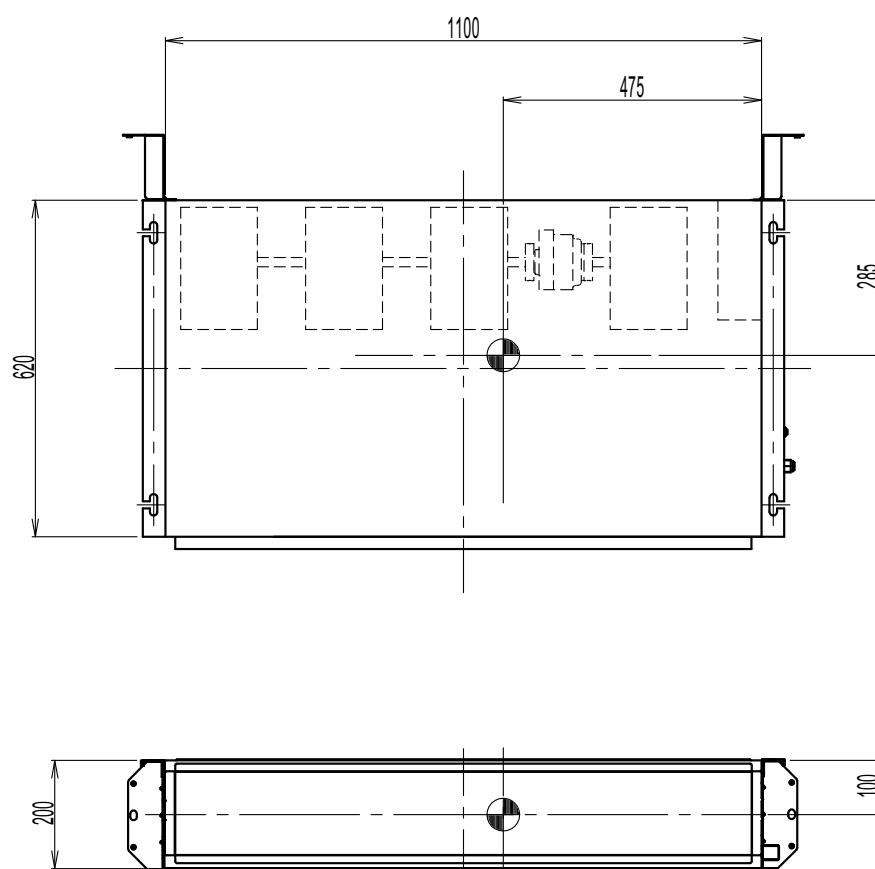


4D096842

8 Centre of gravity

8 - 1 Centre of Gravity

FXNQ63A

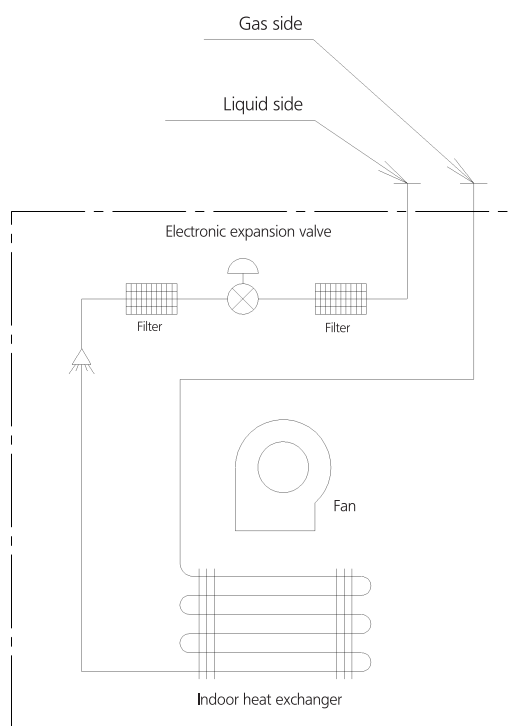


4D096843A

9 Piping diagrams

9 - 1 Piping Diagrams

FXNQ-A



4D081336A

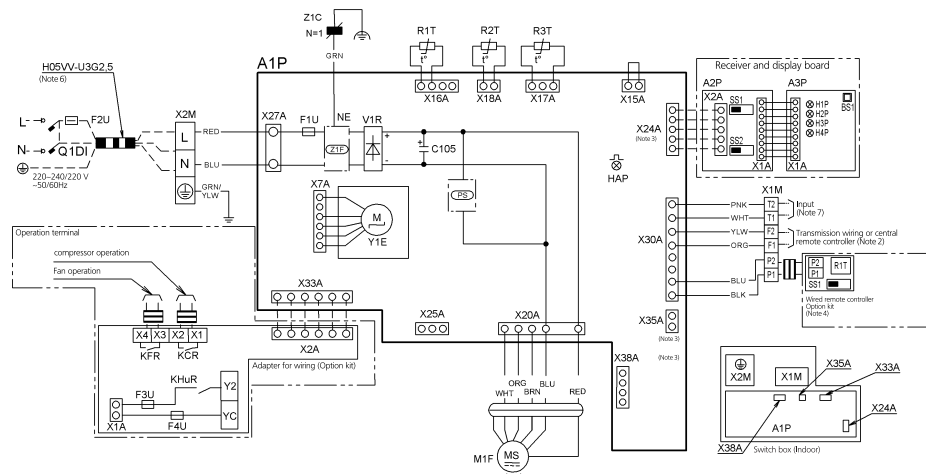
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

FXNQ-A

- Indoor unit
- A1P : Printed circuit board
 - C105 : Capacitor
 - F1U : Power supply
 - F2U : Fuse (T, 3.15A, 250V)
 - F2U : Field fuse
 - Z1C : Ferrite core
 - HAP : Light emitting diode (Service monitor-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 (Upward liquid pipe connection)
 - Y1E : Electronic expansion valve
 - Z1D : Noise filter
- Receiver and display board
- A2P : Printed circuit board
 - A3P : Push button (On/Off)
 - BS1 : Light emitting diode (on-red)
 - H1P : Light emitting diode (filter diagnostic - red)
 - H2P : Light emitting diode (timer-green)
 - H3P : Light emitting diode (defrost-orange)
 - H4P : Light emitting diode (defrost-orange)
 - SS1 : Selector switch (Main/Sub)
 - SS2 : Selector switch (Infrared address set)
- Connector (Optional accessories)
- X24A : Connector (Infrared remote controller)
 - X33A : Connector (Adapter for wiring)
 - X35A : Connector (Power supply)
 - X38A : Connector (Multitenant)
- Adapter for wiring
- F3U/F4U : Fuse (B, 5A, 250V)
 - KFR, KCR, KHuR : Magnetic relay
- Wired remote controller
- R1T : Thermistor (air)
 - SS1 : Select switch (MAIN-SUB)



Notes

1. : Terminal block. : D-Connector. : Field wiring.
2. In case using central remote controller, connect it to the unit in accordance with the attached 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. Colors BLK:Black; RED:Red; BLU:Blue; WHT:White; GRN:Green; YLW:Yellow; BRN:Brown; ORG:Orange; PNK:Pink; GRY:Gray; 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 the remote controller, see manual for detail.

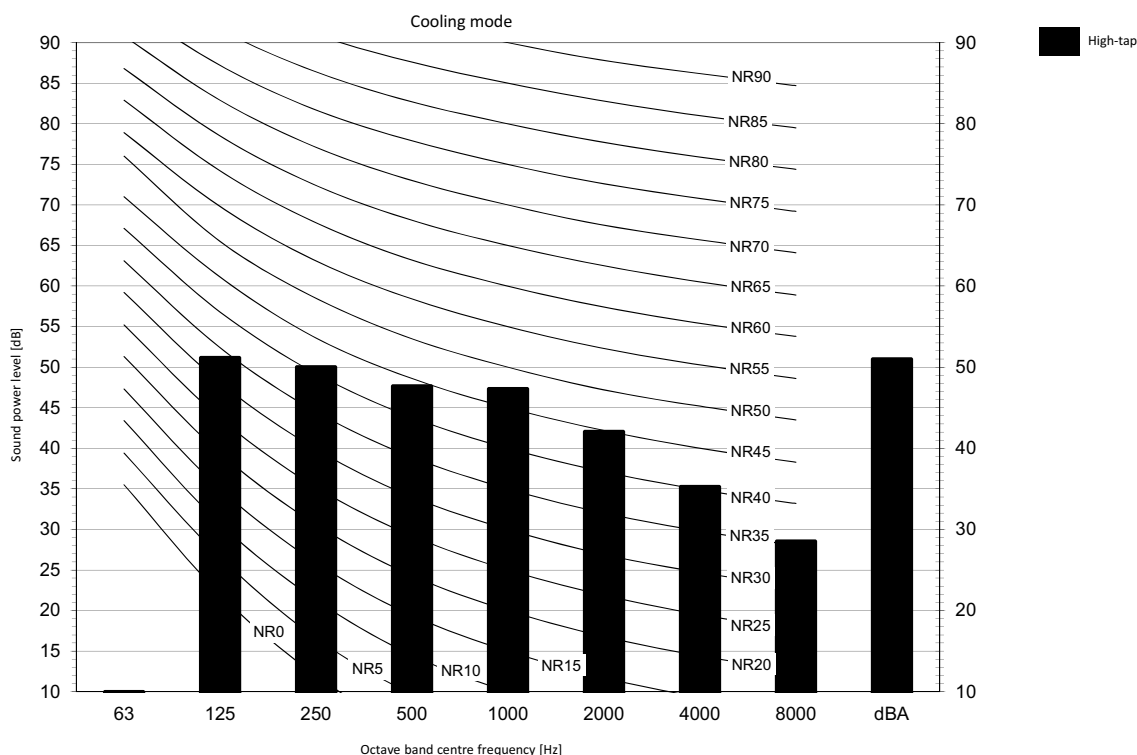
- : Wire clamp
- : Protective earth (screw)
- : Live
- : Neutral

3D095598

11 Sound data

11 - 1 Sound Power Spectrum

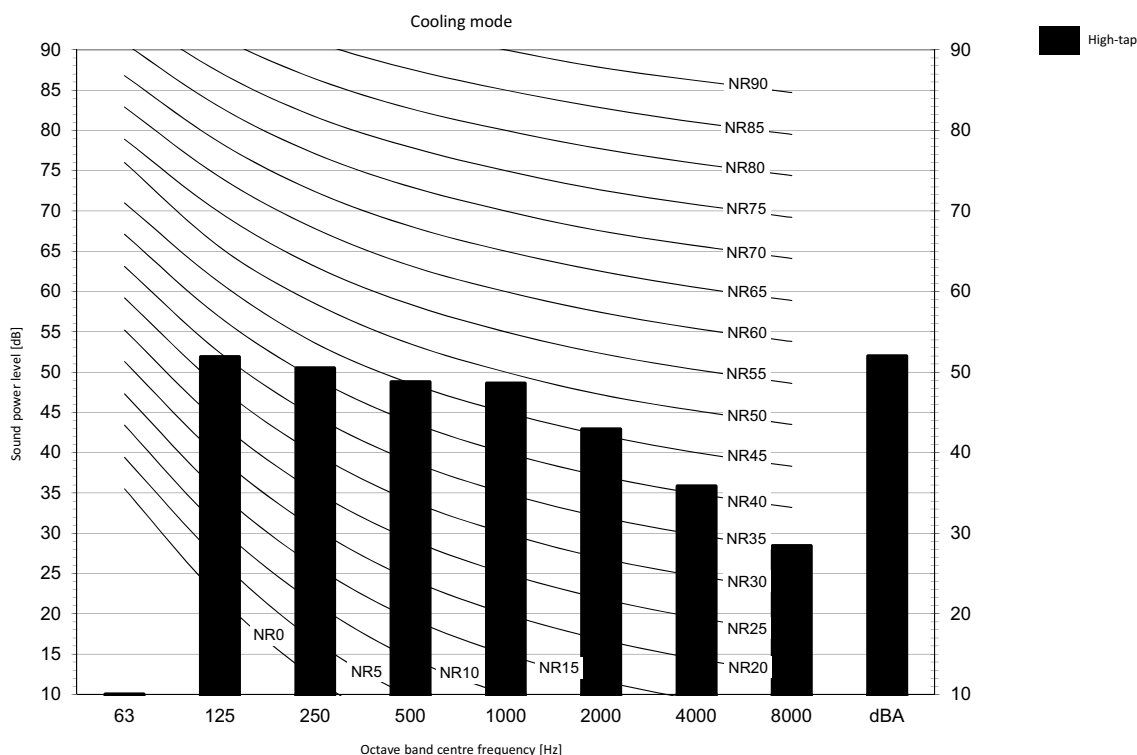
FXNQ20-32A



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

3D096617

FXNQ40A



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

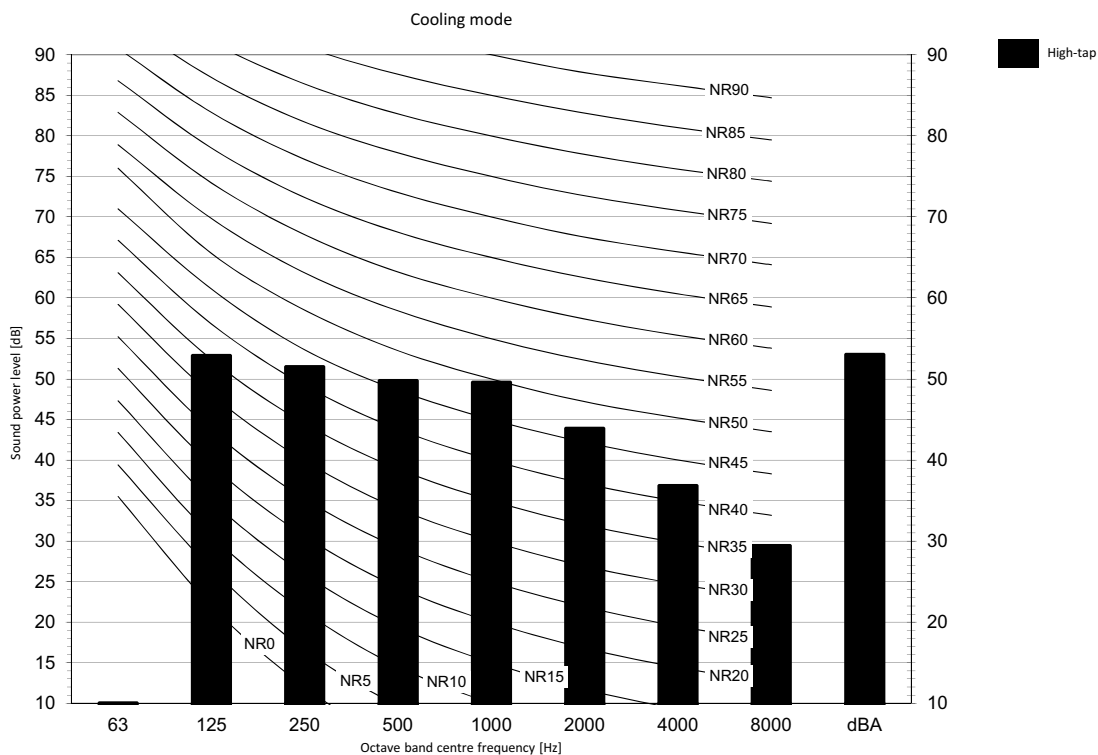
3D096618

11 Sound data

11 - 1 Sound Power Spectrum

11

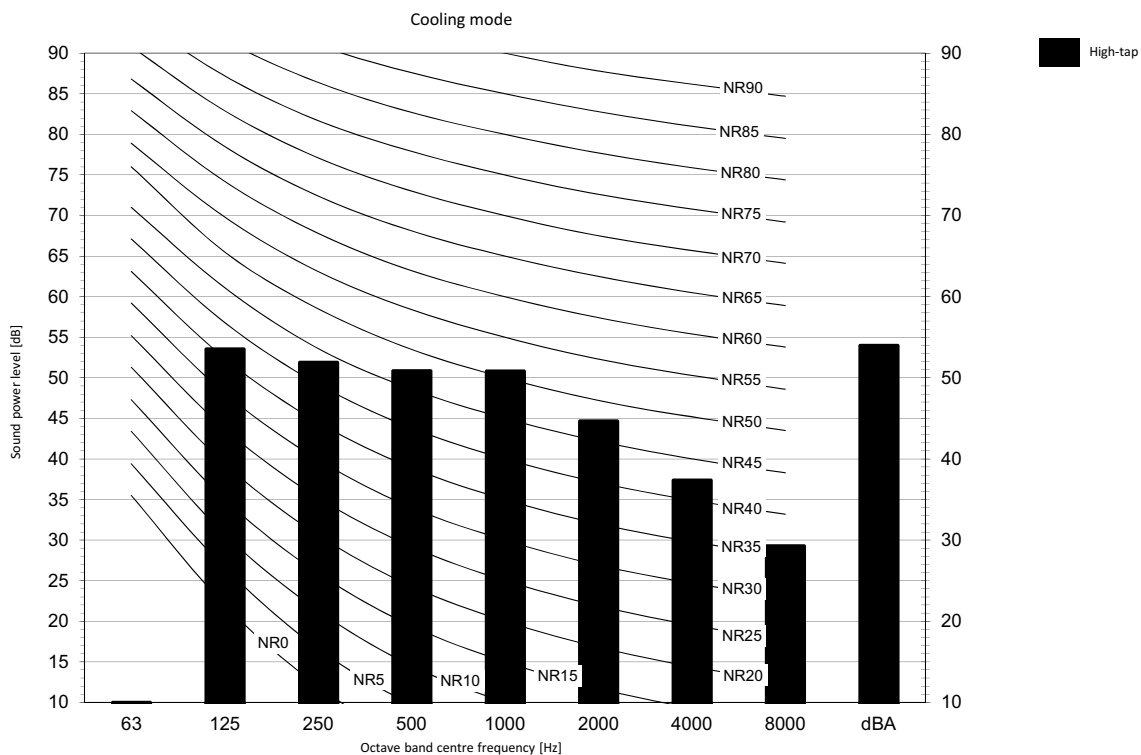
FXNQ50A



- 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

3D096619

FXNQ63A



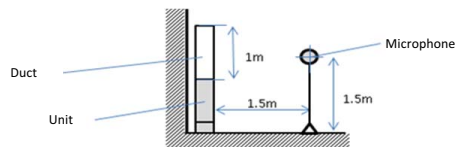
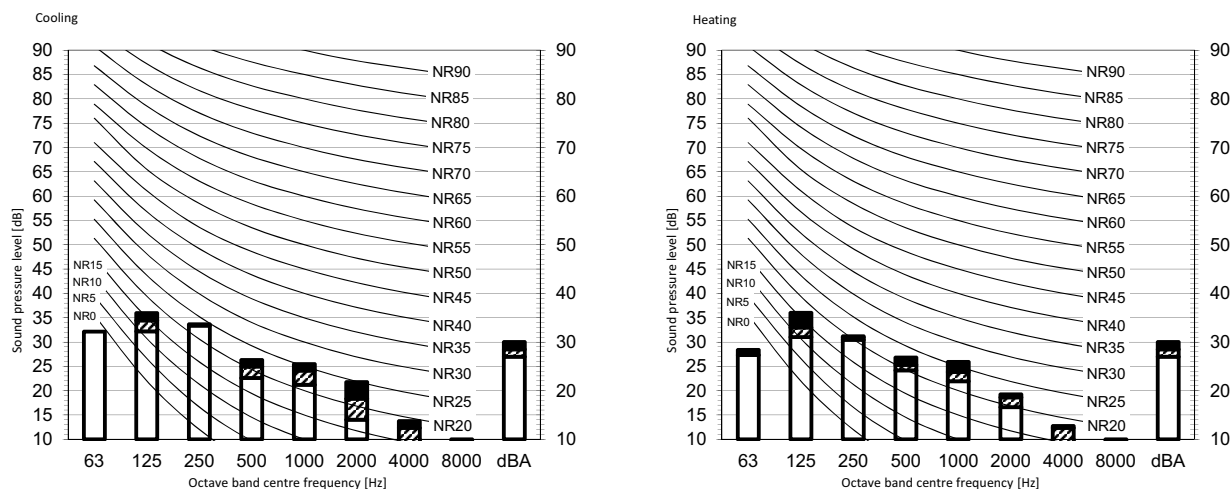
- Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
 2. Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$
 3. Measured according to ISO 3744

3D096620

11 Sound data

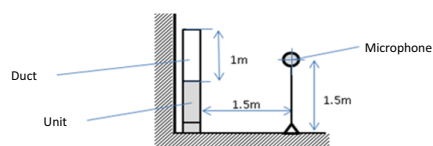
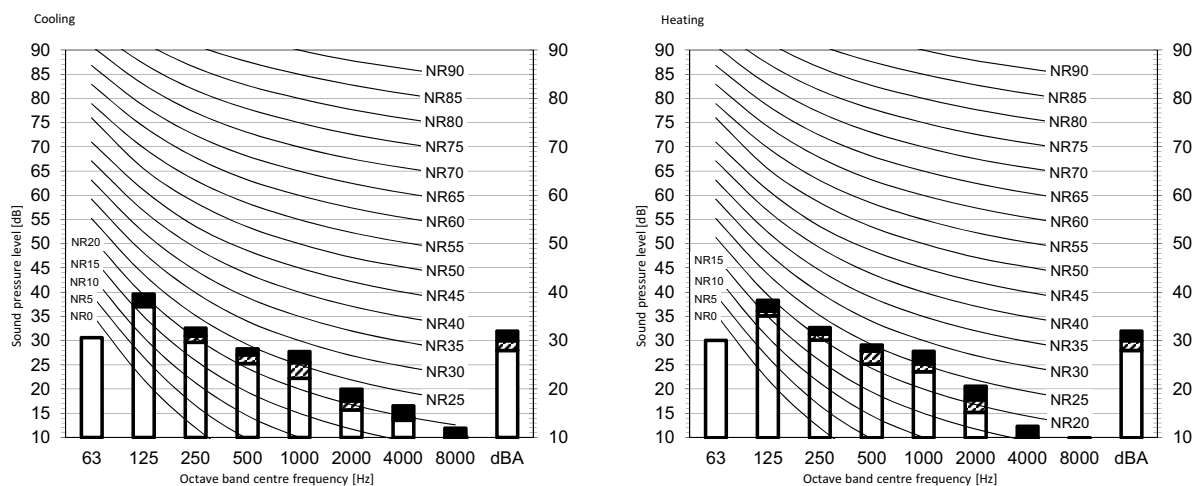
11 - 2 Sound Pressure Spectrum

FXNQ20-32A



3D096735

FXNQ40A

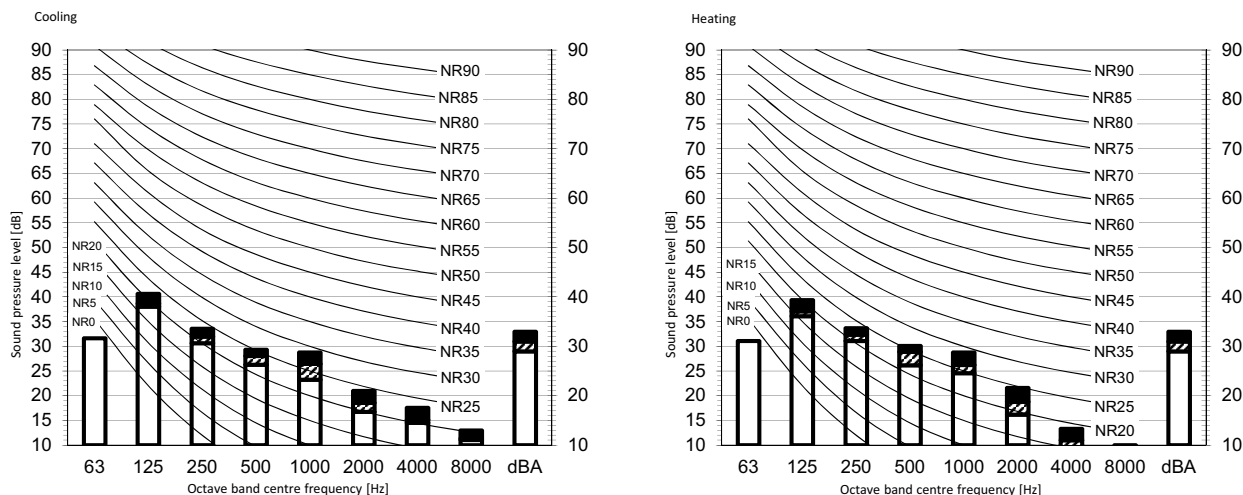


3D096736

11 Sound data

11 - 2 Sound Pressure Spectrum

FXNQ50A

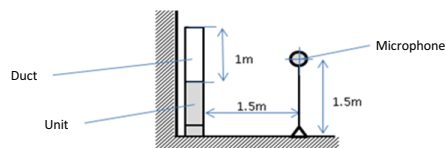


Fan speed

High

Medium

Low

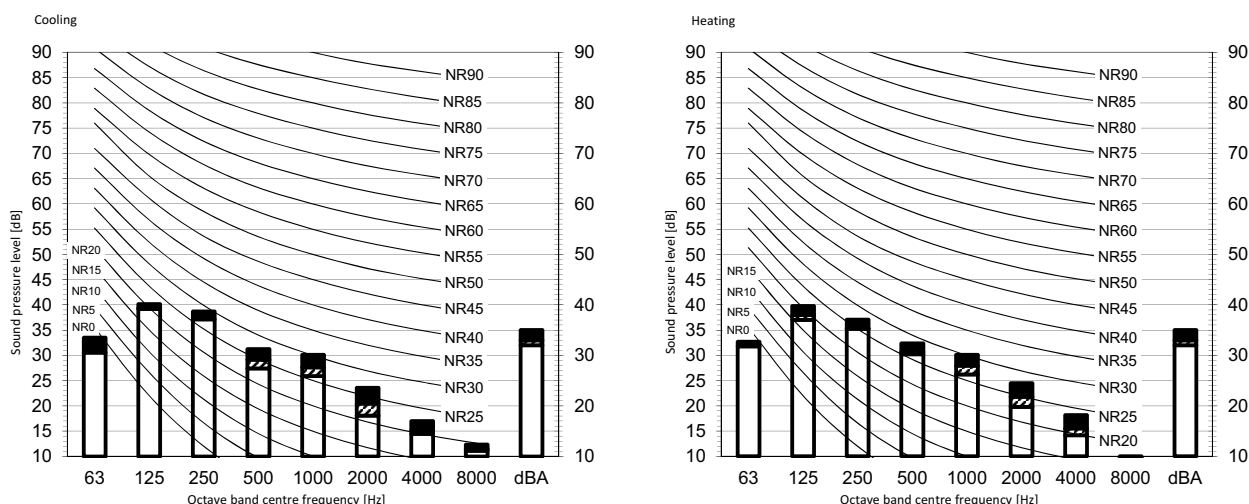


Notes

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 μ Pa

3D096737

FXNQ63A

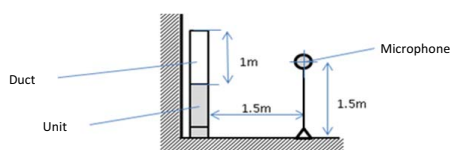


Fan speed

High

Medium

Low



Notes

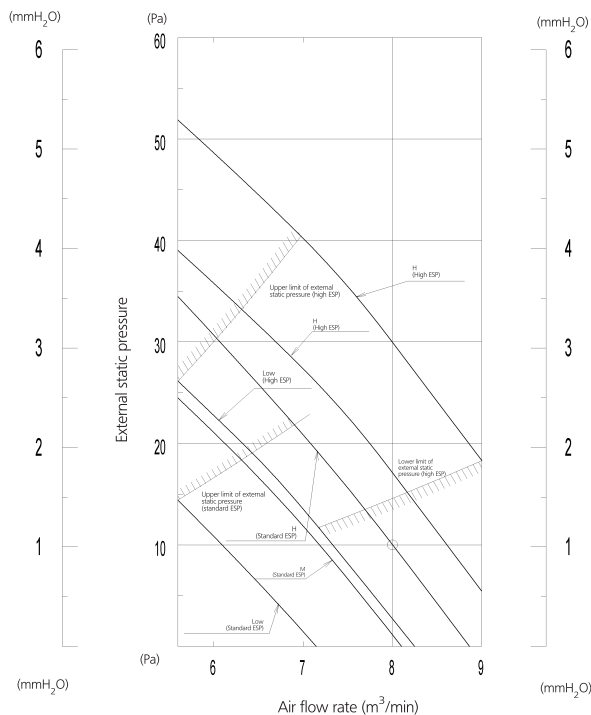
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μ Pa

3D096738

12 Fan characteristics

12 - 1 Fan Characteristics

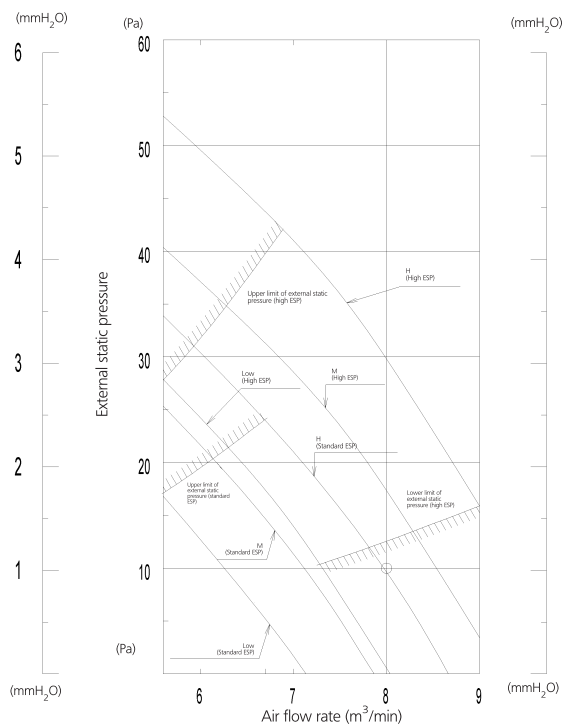
FXNQ20-25A



Notes:
 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D086736A

FXNQ32A



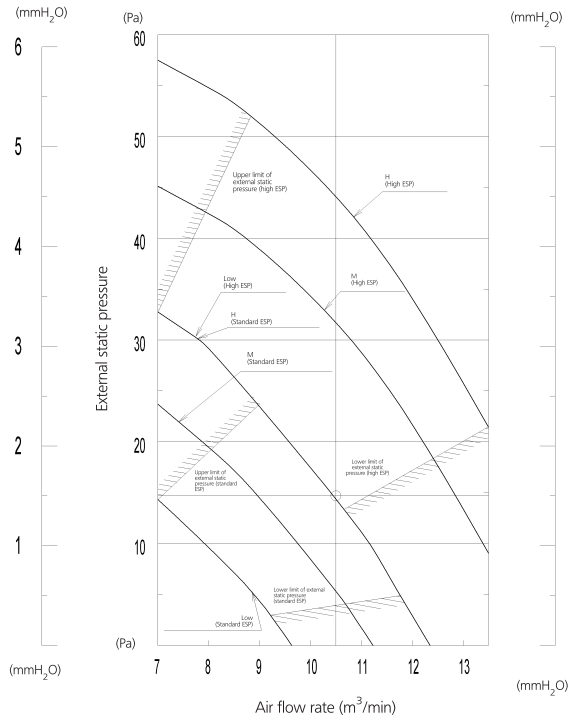
Notes:
 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081425B

12 Fan characteristics

12 - 1 Fan Characteristics

FXNQ40A

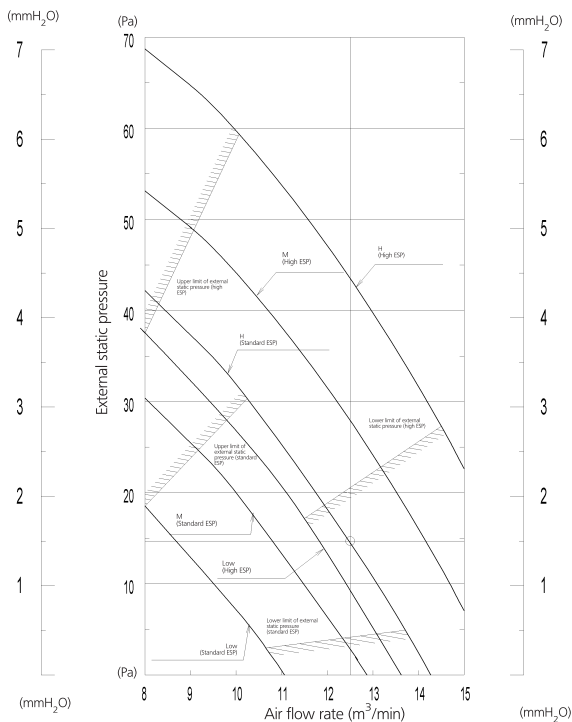


Notes:

1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081426B

FXNQ50A



Notes:

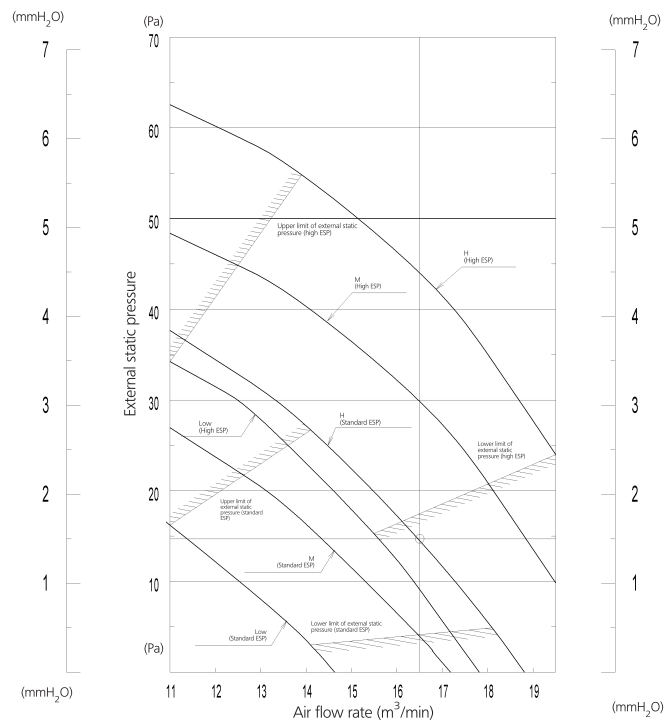
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081427B

12 Fan characteristics

12 - 1 Fan Characteristics

FXNQ63A

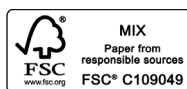


Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081429B



Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende



EEDEN16

11/16



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.