



# Air Conditioning Technical Data

Concealed floor standing unit



EEEN15-204

FXNQ-A



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## FXNQ-A

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# 1 Features

## Designed to be concealed in walls

- Blends unobtrusively with any interior décor: only the suction and discharge grilles 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



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	42	52	59	55	
		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						
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						
	Wired remote control			BRC1D52 / BRC1D61 / BRC1E52A/B						
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

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=1,4 x FLA; The next lower standard fuse rating is minimum 16 ampere.

### 3 Electrical data

#### 3 - 1 Electrical Data

#### FXNQ-A

Model	Indoor Units			Power supply		IFM	Power input (W)	
	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

#### 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

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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

	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
		BRC1E52A, BRC1E52B	Current	X
		BRC3E52C7 (3)	Current	X
		BRC4O65	Current	X
Centralised control systems	Central remote control	DCS302CA51	Current	X
		DSC302CA61 (1)	Current	X
	Unified ON/OFF controller	DSC301BA51	Current	X
		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	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.

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# 6 Capacity tables

## 6 - 1 Cooling Capacity Tables

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**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 - 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

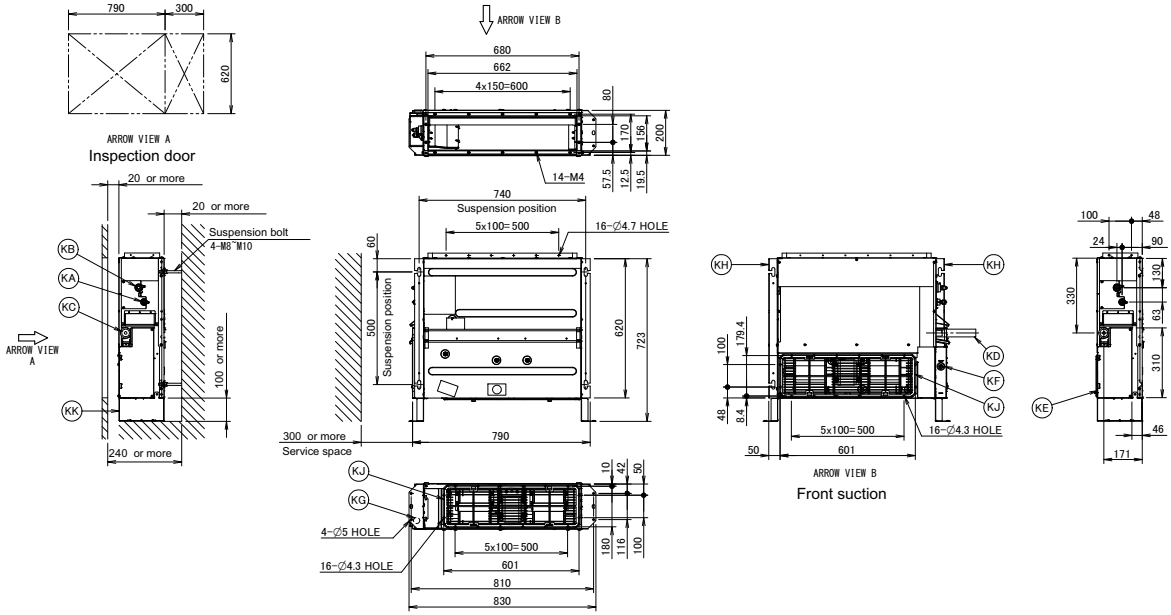
3TW32902-3

# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

7

### FXNQ20-32A



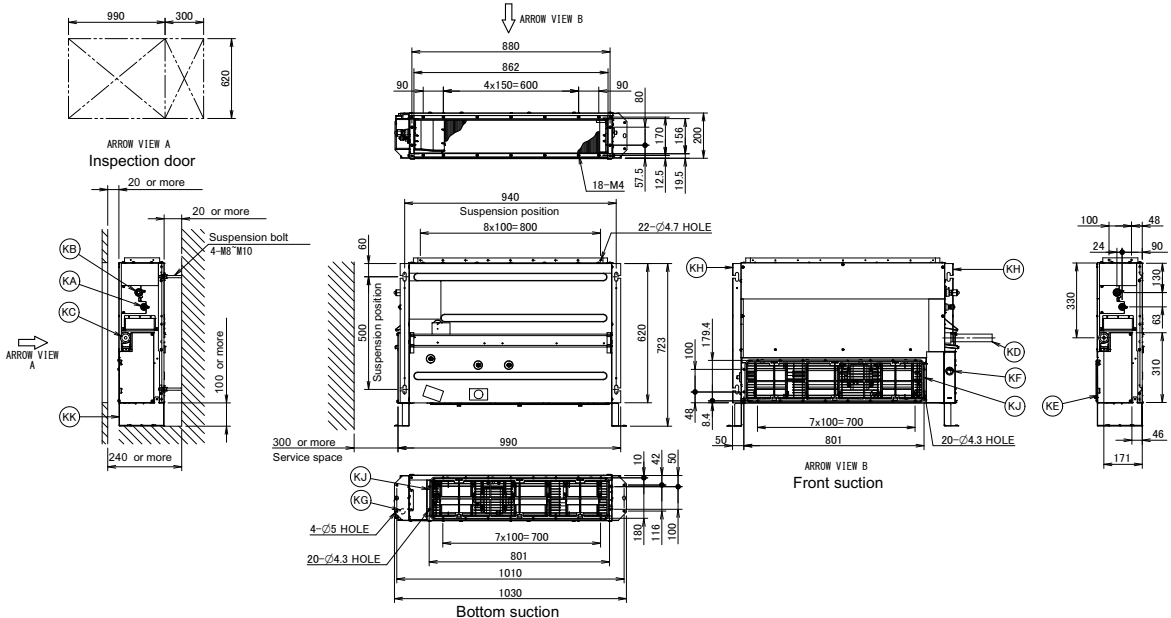
Item	Name	Description
KA	Liquid pipe connection port	∅6.40 flared connection
KB	Gas pipe connection port	∅9.50 flared connection
KC	Drain pipe connection	VP20 (OD ∅26, ID ∅20)
KD	Drain hose	ID ∅25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter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

Bottom suction

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	∅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	/

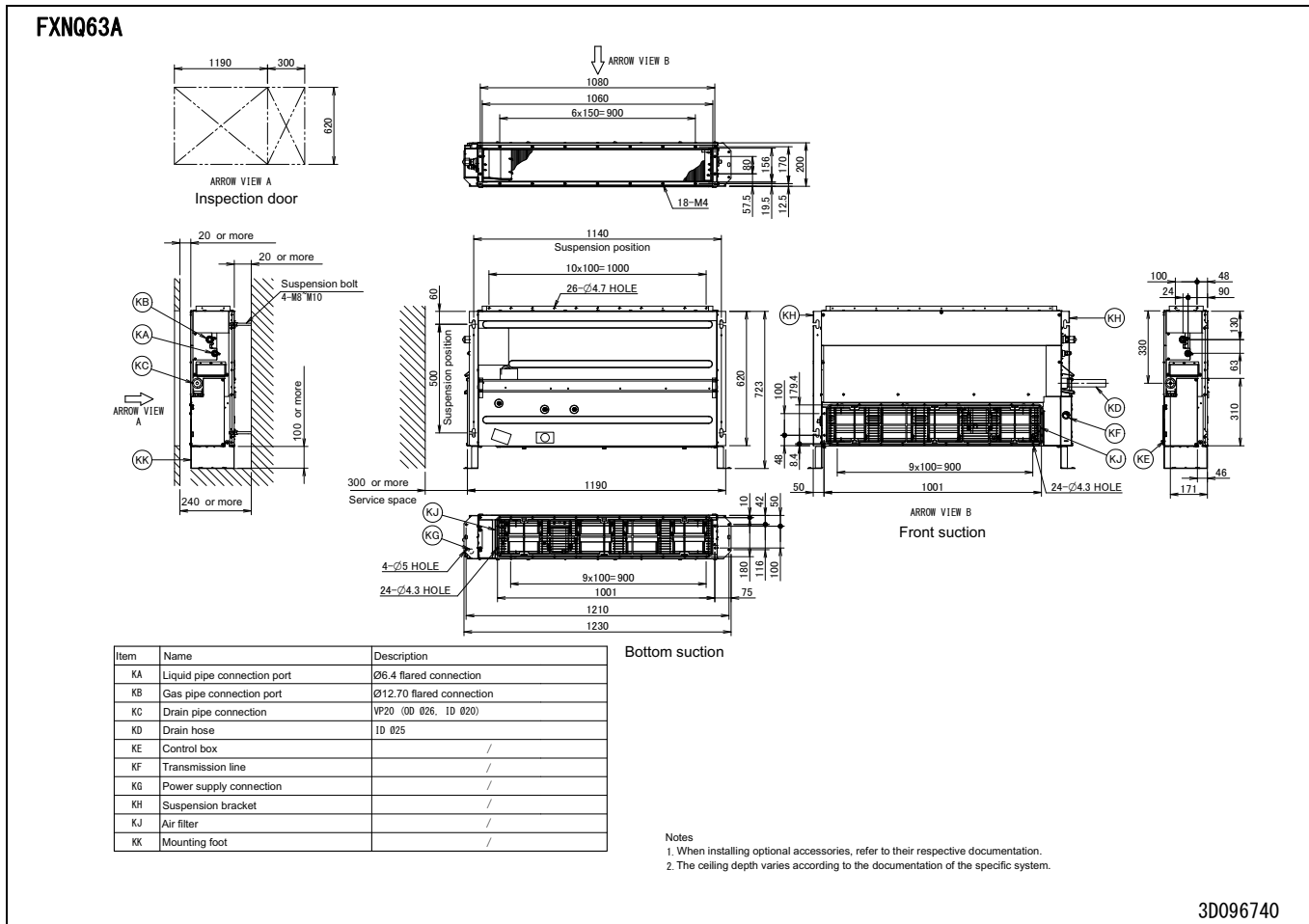
Bottom suction

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

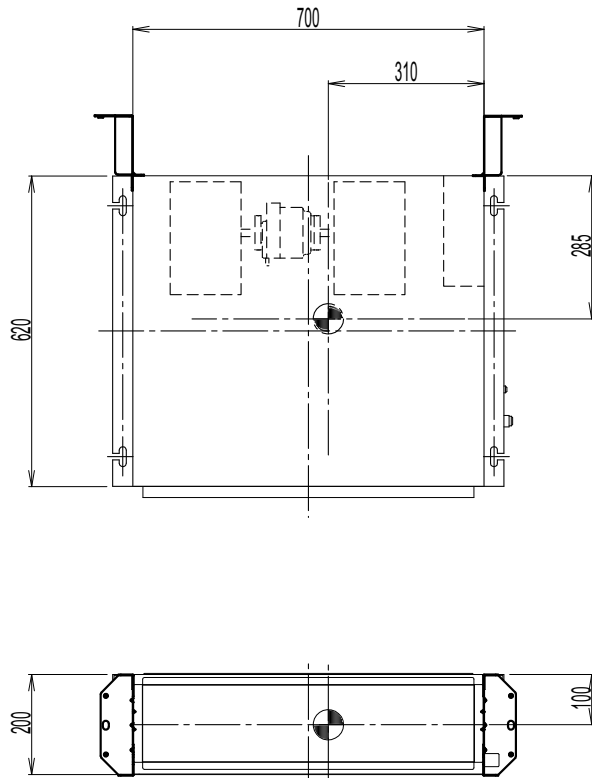


# 8 Centre of gravity

## 8 - 1 Centre of Gravity

FXNQ20-32A

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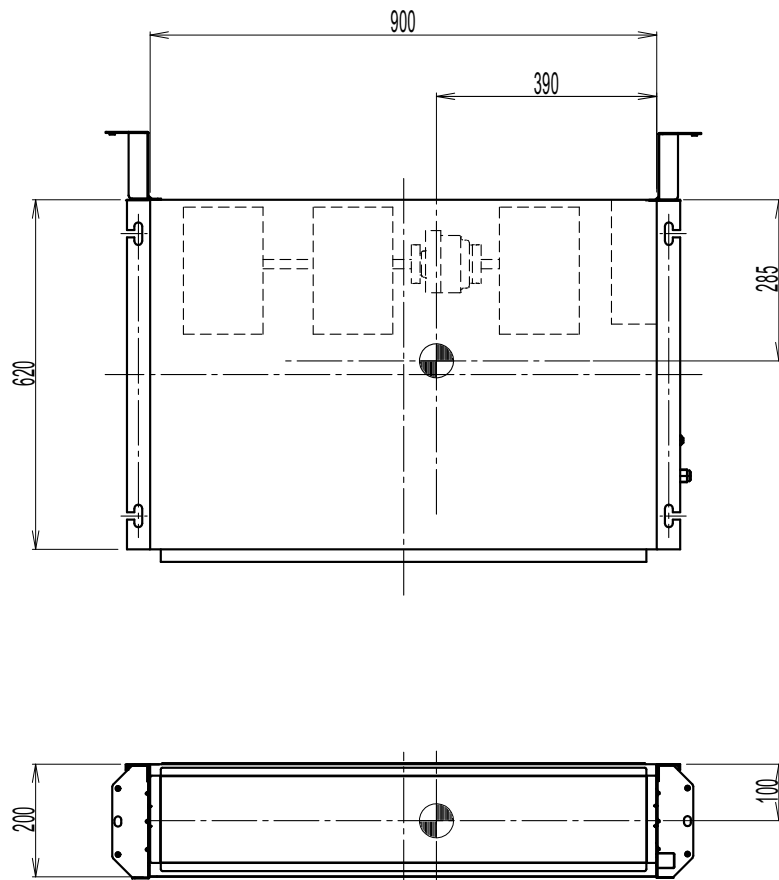


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# 8 Centre of gravity

## 8 - 1 Centre of Gravity

FXNQ40-50A

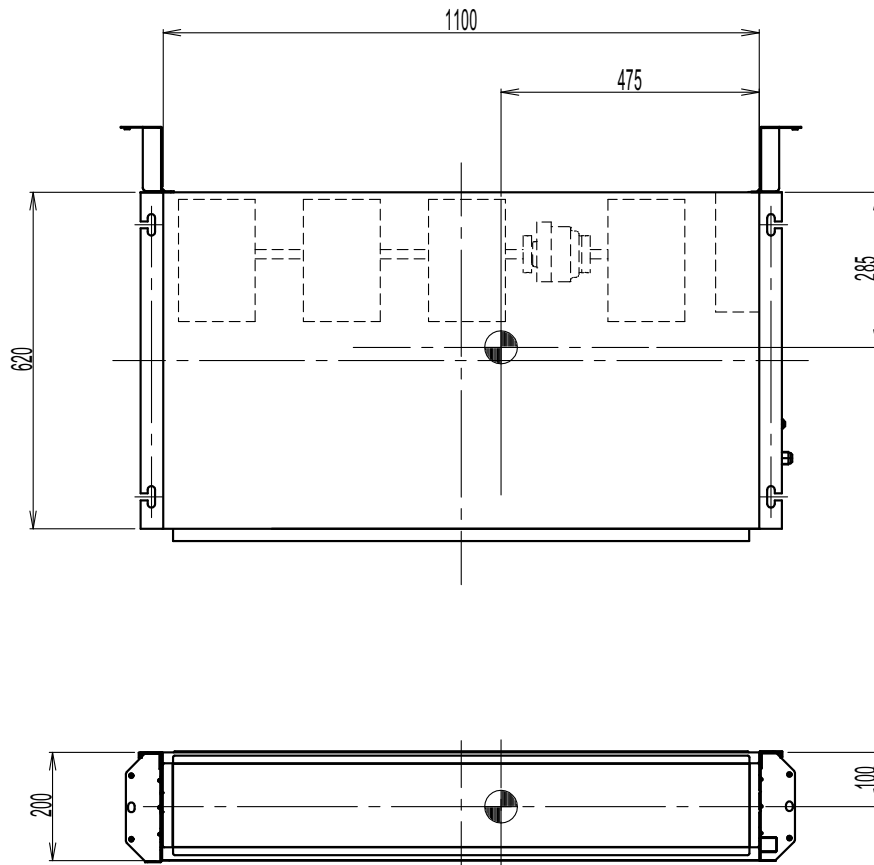


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# 8 Centre of gravity

## 8 - 1 Centre of Gravity

FXNQ63A

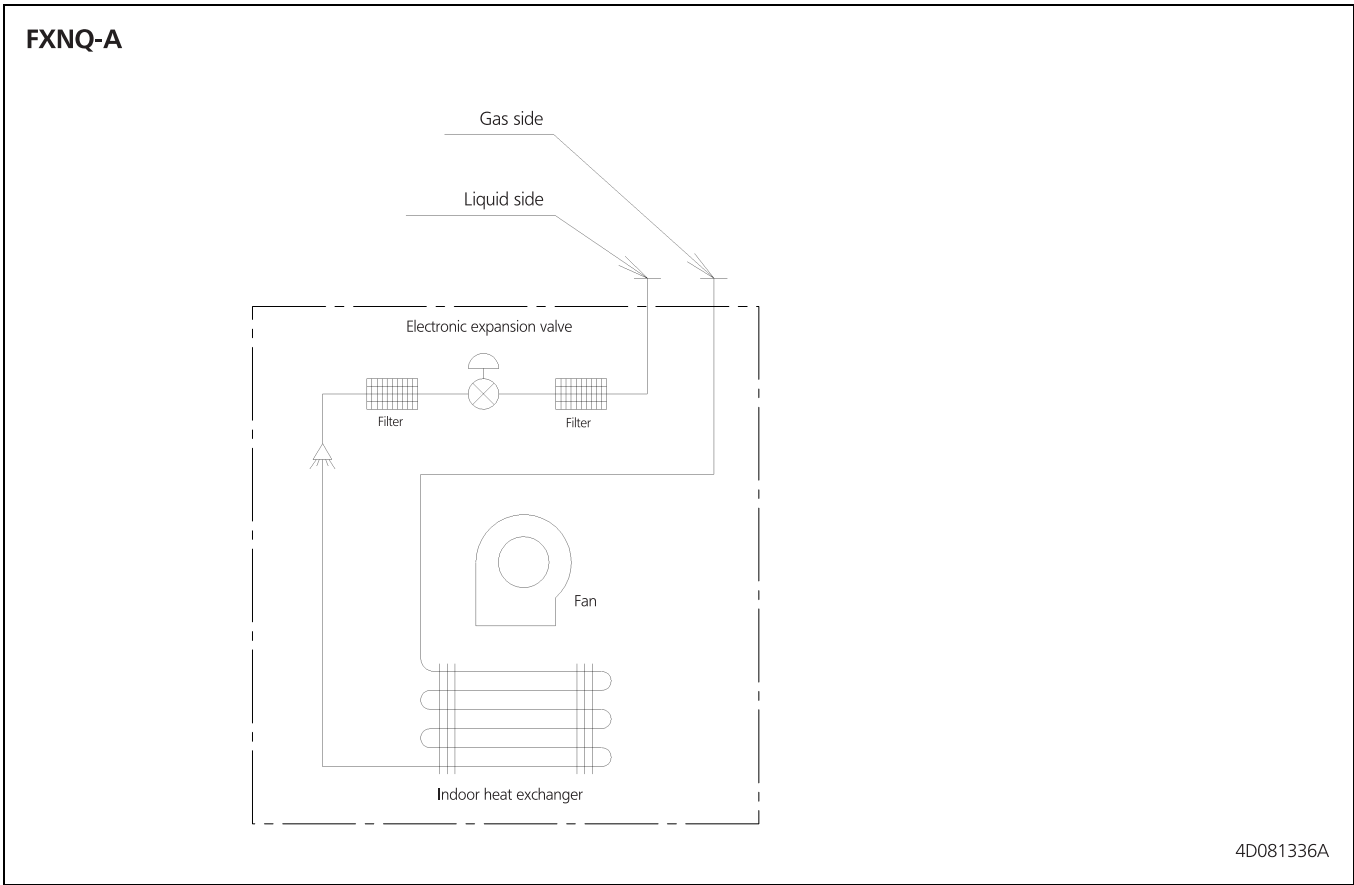


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# 9 Piping diagrams

## 9 - 1 Piping Diagrams



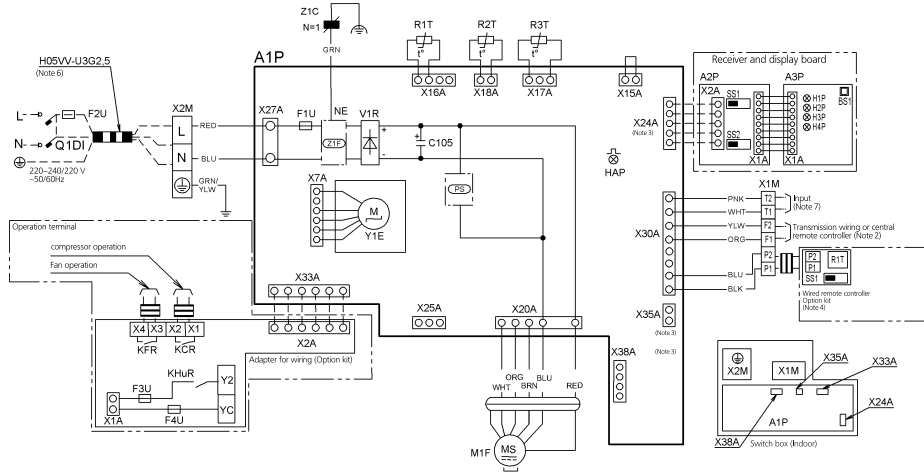
# 10 Wiring diagrams

## 10 - 1 Wiring Diagrams - Single Phase

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### FXNQ-A

- Indoor unit**
- A1P : Printed circuit board
  - C105 : Capacitor
  - F2U : Power supply
  - F1U : 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
  - Z1E : 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 : 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

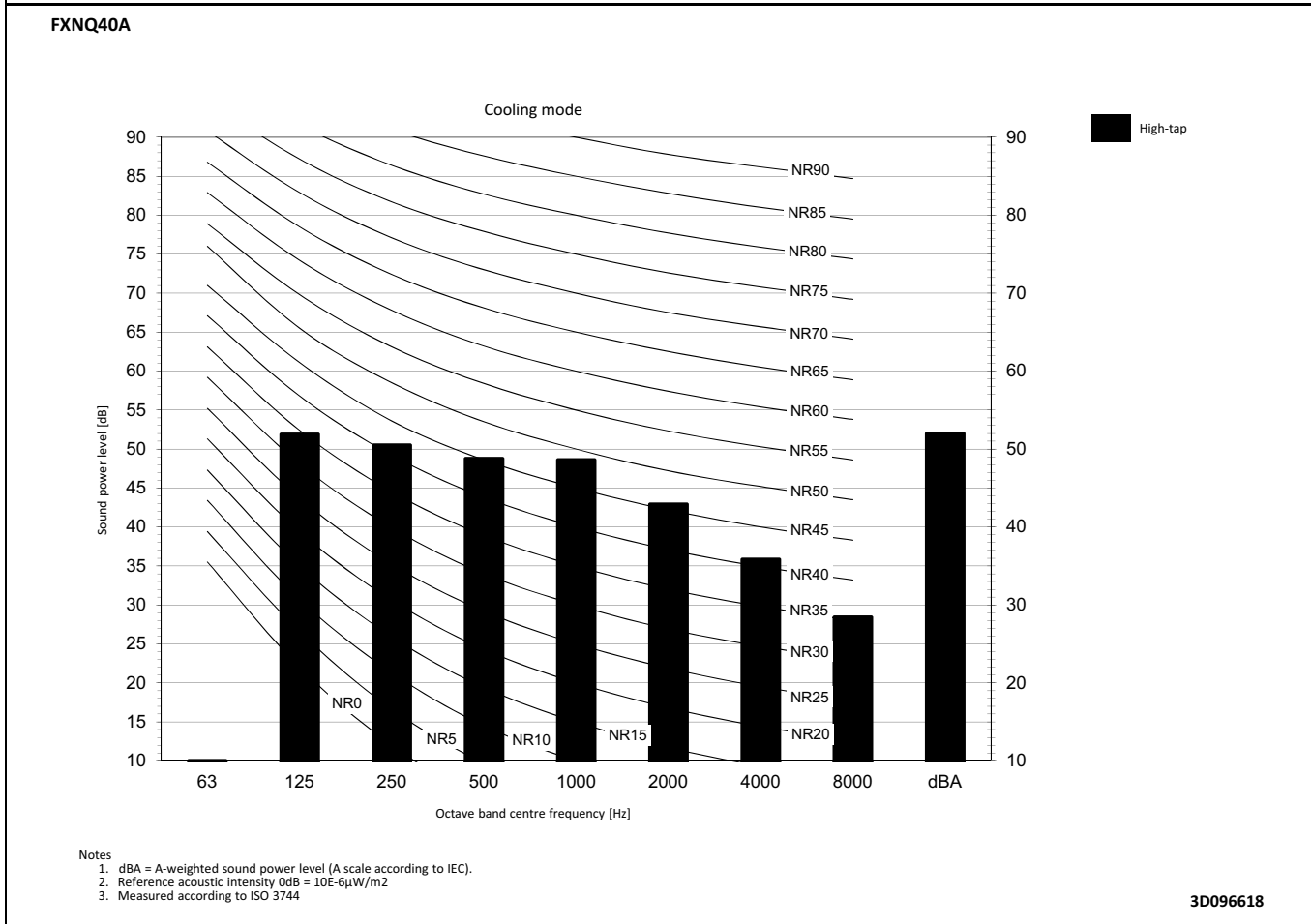
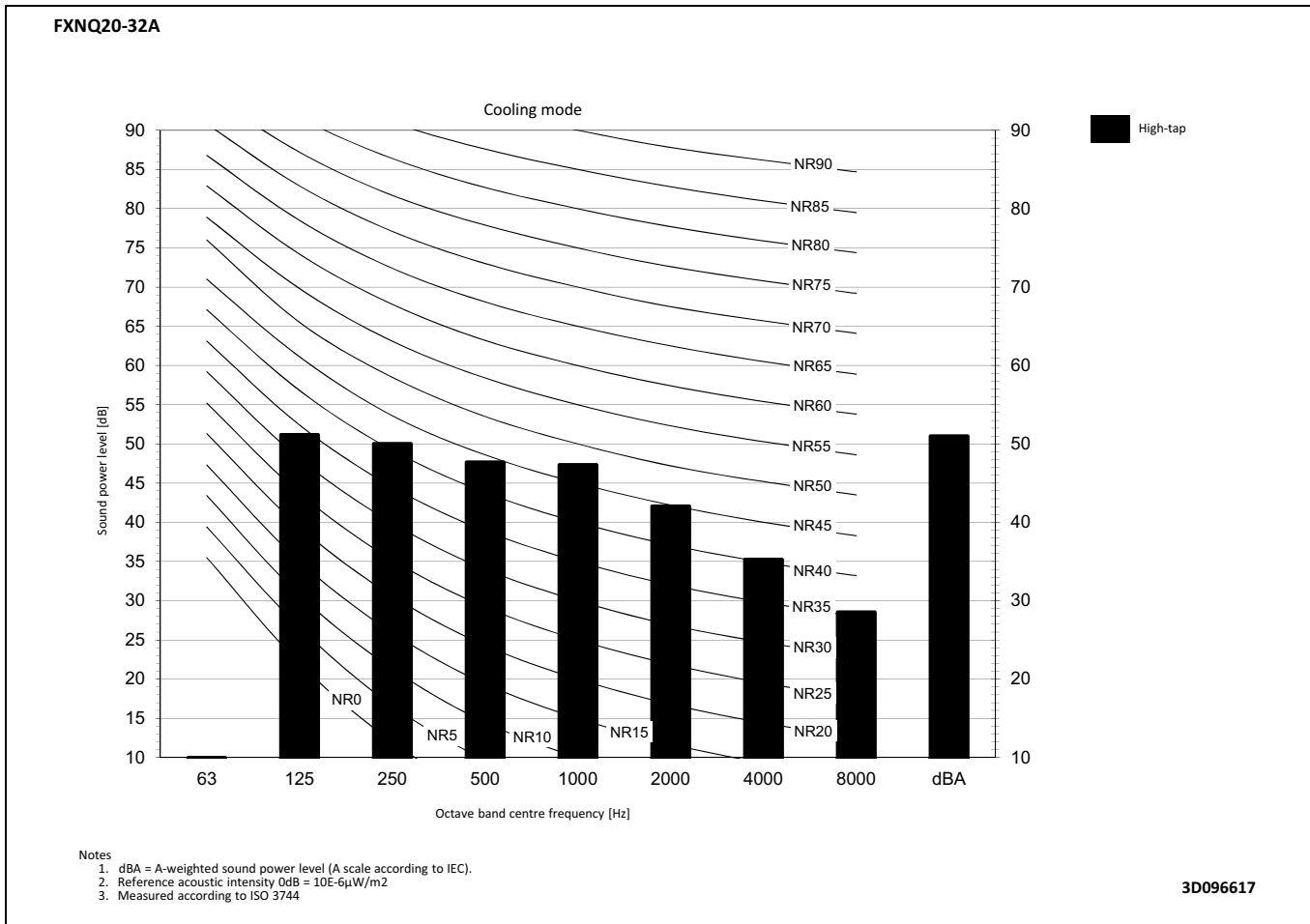
1. □□□□ : Terminal block    D- Connector,    III : Field wiring
2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. X24A, X33A, X35A, X38A are connectors for the optional accessories.
4. For how to switch between the main unit and 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)
- L : Live
- N : Neutral

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# 11 Sound data

## 11 - 1 Sound Power Spectrum

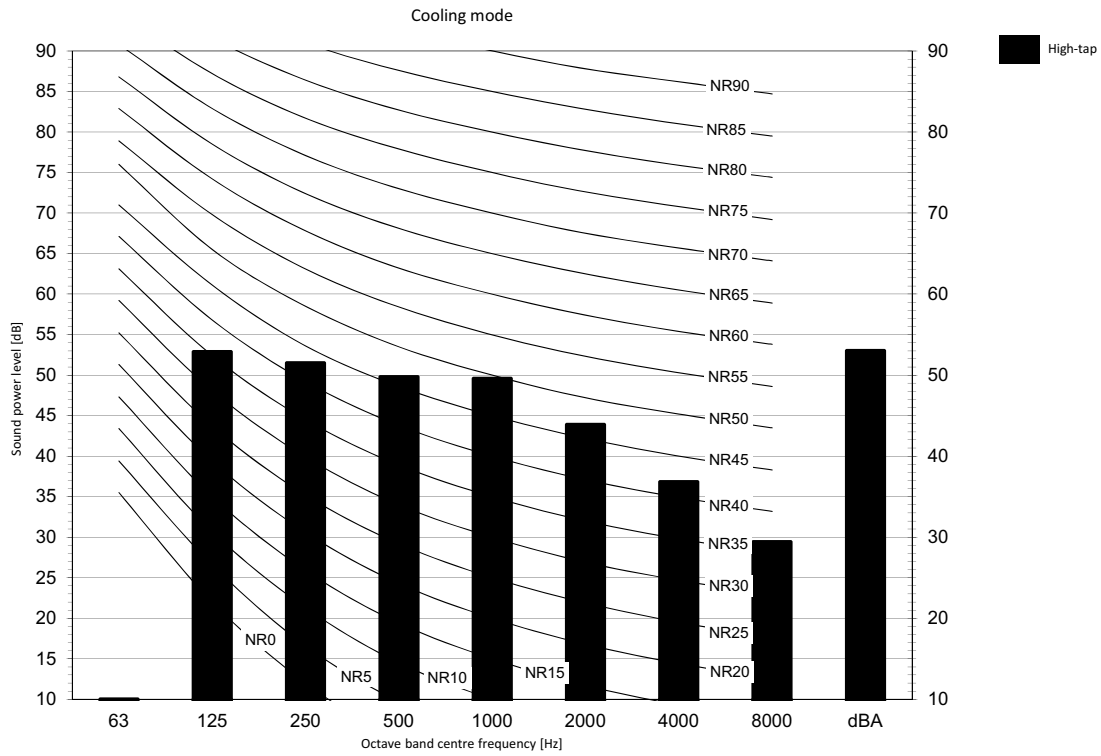


# 11 Sound data

## 11 - 1 Sound Power Spectrum

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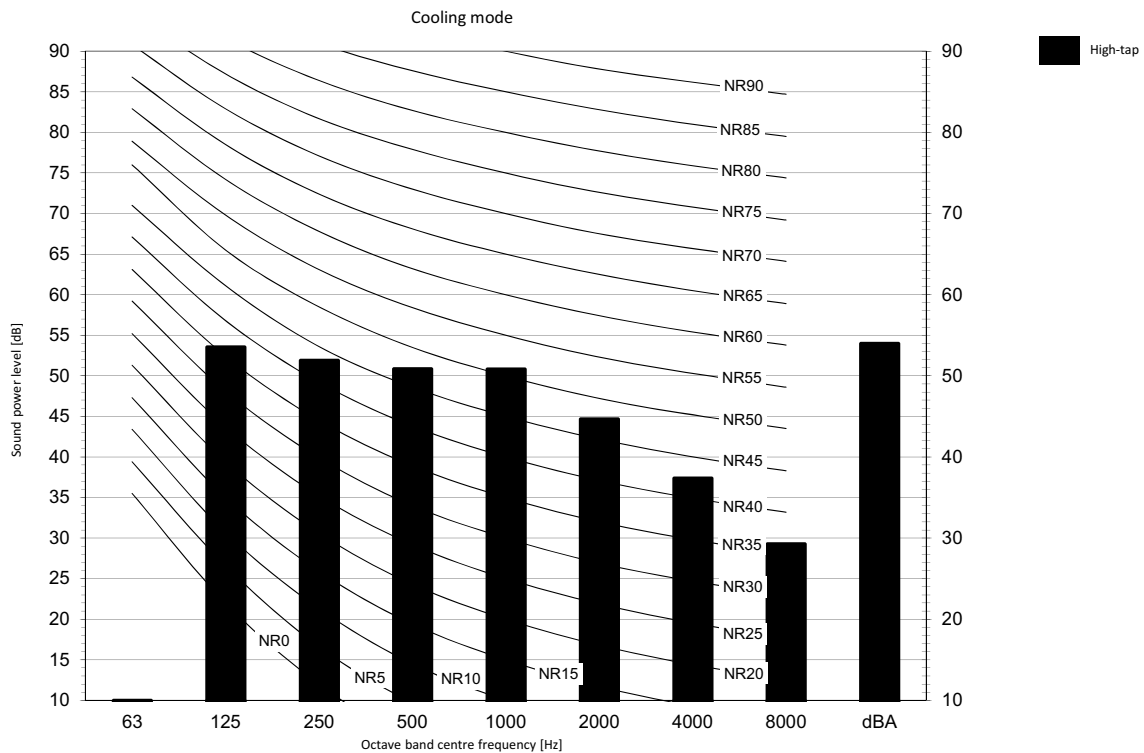
### FXNQ50A



- 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

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### FXNQ63A



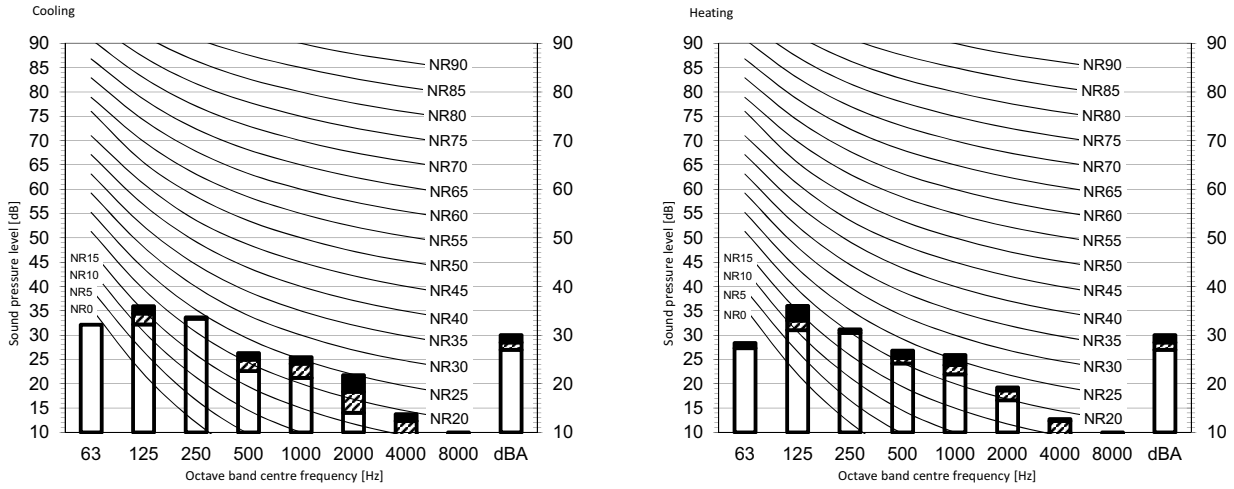
- Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
  2. Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$
  3. Measured according to ISO 3744

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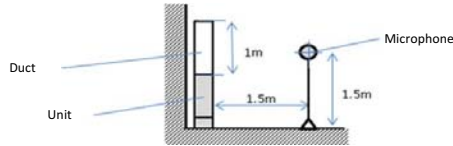
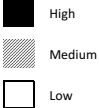
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

### FXNQ20-32A



Fan speed

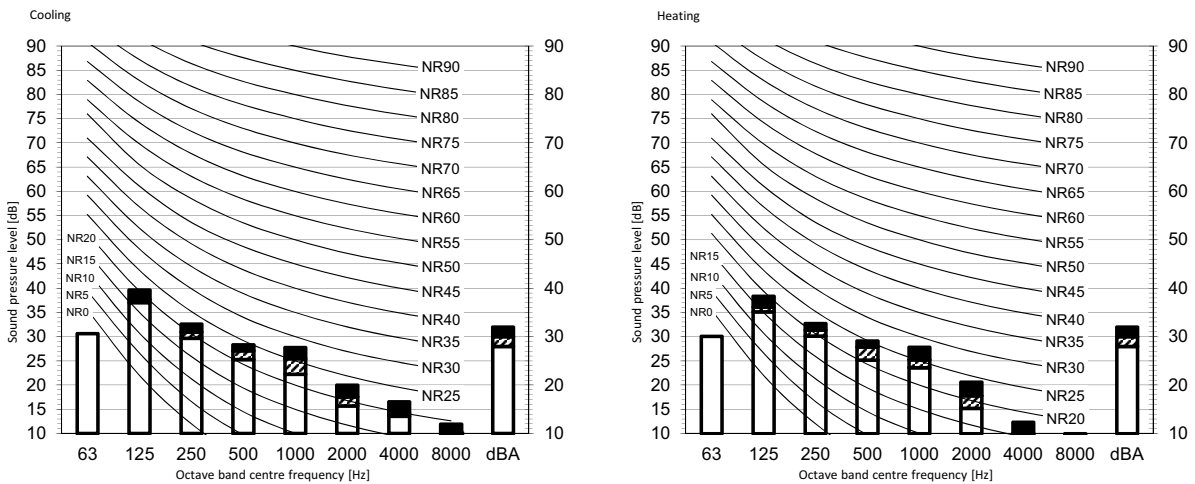


Notes

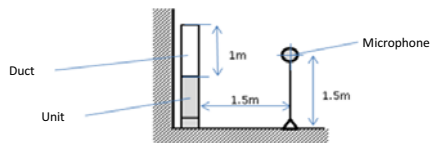
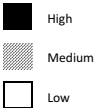
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa

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### FXNQ40A



Fan speed



Notes

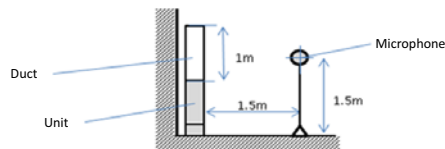
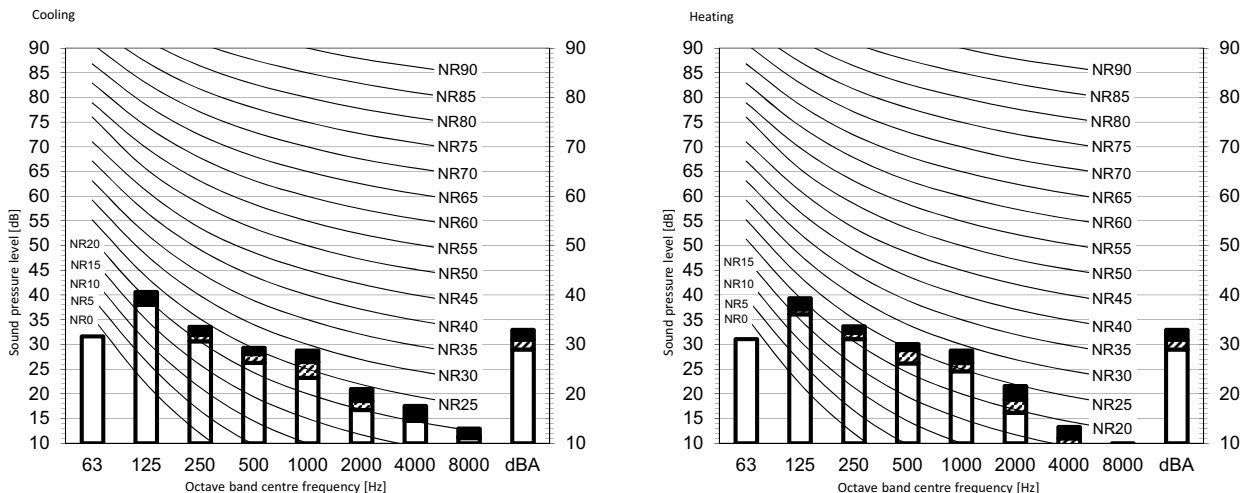
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa

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# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

### FXNQ50A

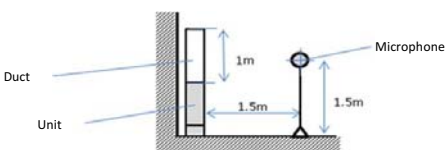
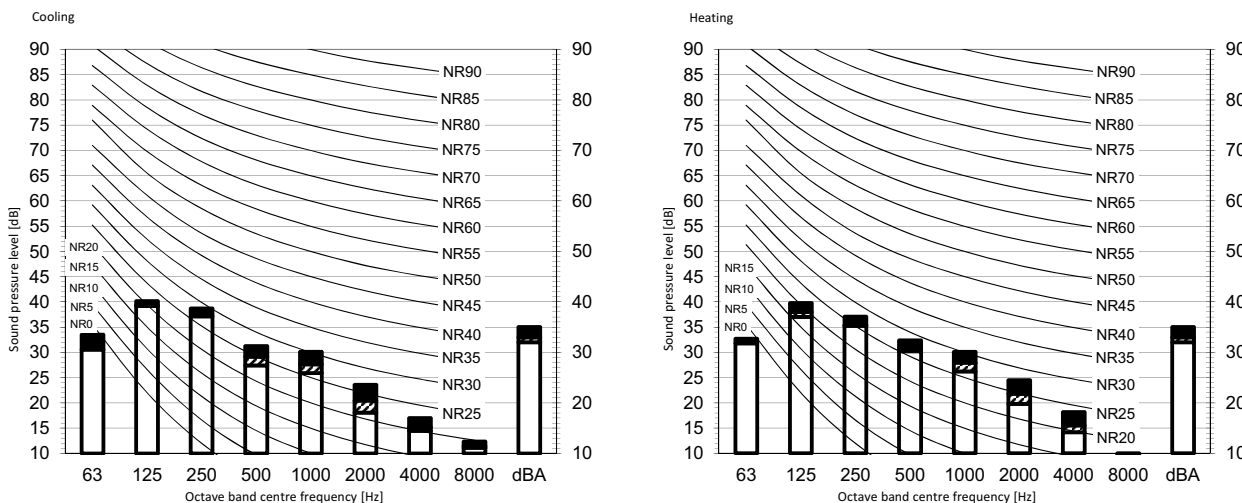


Notes

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  $\mu$ Pa

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### FXNQ63A



Notes

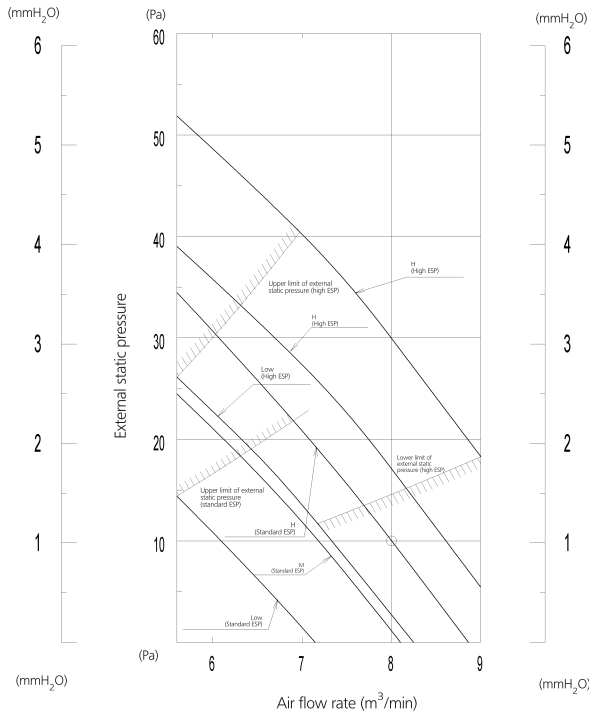
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20  $\mu$ Pa

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# 12 Fan characteristics

## 12 - 1 Fan Characteristics

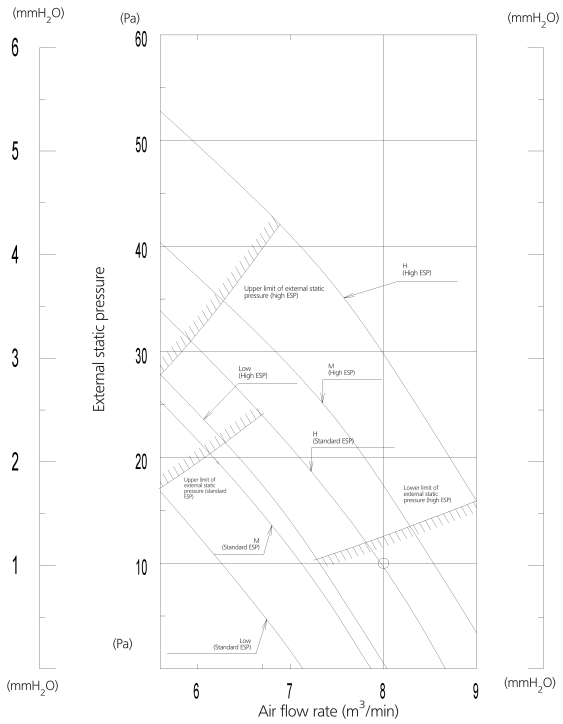
### FXNQ20-25A



- 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



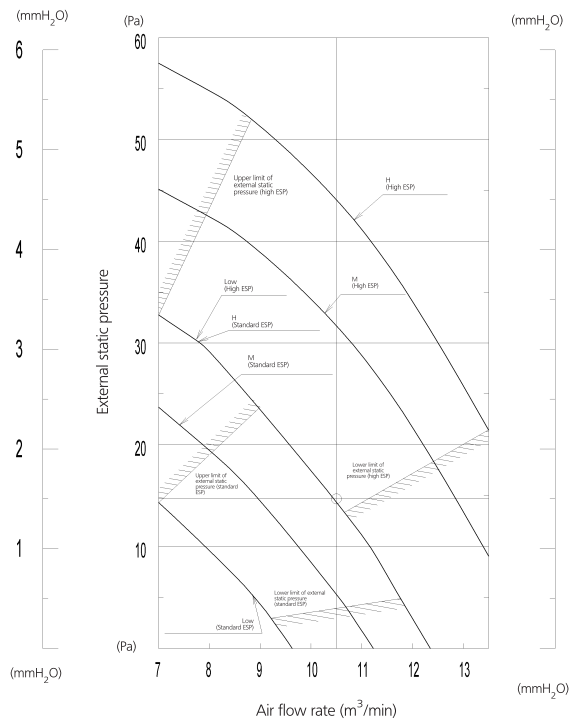
- Notes:  
 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.  
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081425B

# 12 Fan characteristics

## 12 - 1 Fan Characteristics

### FXNQ40A

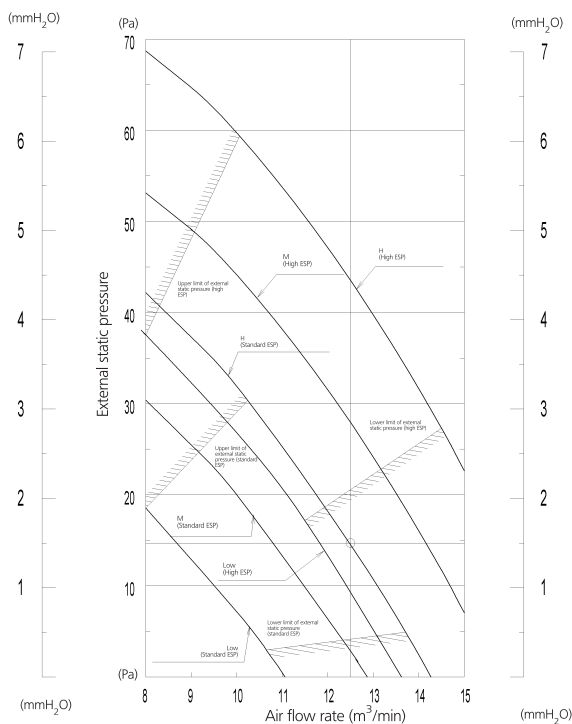


Notes:

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.

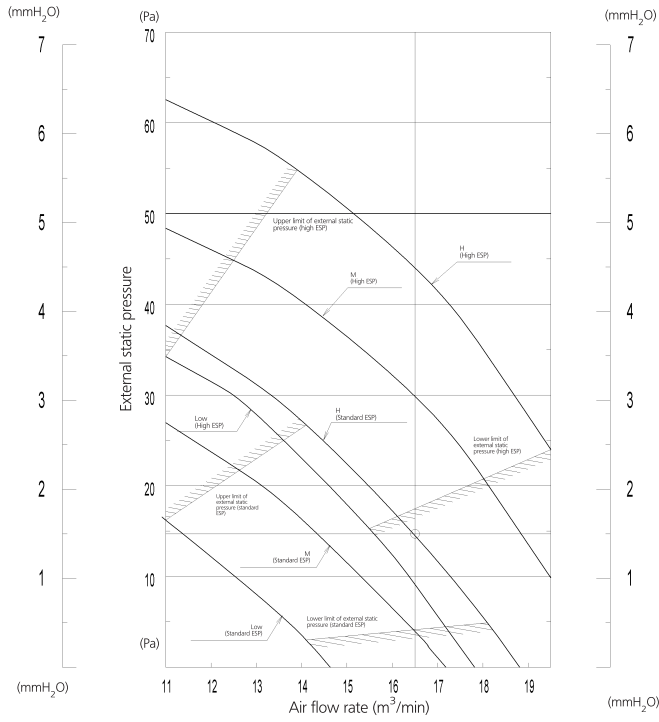
3D081427B



# 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





These products are not within the scope of the Eurovent certification program

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