

technical data

VRV[®] II Systems

FXDQ-NVE

Slim concealed ceiling unit

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FXDQ-NVE

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1 Features

- Slim design for flexible installation
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Quiet operation: down to 29 dBA sound pressure level
- Blends unobtrusively with any interior décor
- Can be installed in both new and existing buildings.
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- Drain-up pump with 750mm lift fitted as standard



2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXDQ20NVE	FXDQ25NVE	FXDQ32NVE	FXDQ40NVE	FXDQ50NVE	FXDQ63NVE
Nominal Capacity	Cooling		kW	2.20	2.80	3.60	4.50	5.60	7.10
	Heating		kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input (Nominal)	Cooling		kW	0.150	0.150	0.150	0.160	0.165	0.181
	Heating		kW	0.137	0.137	0.137	0.147	0.152	0.168
Casing	Material			Galvanised steel plate					
Dimensions	Unit	Height	mm	200	200	200	200	200	200
		Width	mm	900	900	900	900	900	1100
		Depth	mm	620	620	620	620	620	620
Weight	Machine Weight		kg	26	26	26	27	28	31
Required Ceiling Void			mm	240	240	240	240	240	240
Heat Exchanger	Dimensions	Nr of Rows		2	2	2	3	3	3
		Fin Pitch	mm	1.50	1.50	1.50	1.50	1.50	1.50
		Face Area	m ²	0.176	0.176	0.176	0.176	0.176	0.227
		Nr of Stages		12	12	12	12	12	12
	Fin	Fin type		Cross fin coil					
Fan	Type			Sirocco fan					
	Quantity			1	1	1	1	1	1
Air Flow Rate	Cooling	High	m ³ /min	9.50	9.50	10.50	10.50	12.50	16.50
		Low	m ³ /min	7.50	7.50	8.50	8.50	10.00	13.00
	Heating	High	m ³ /min	9.50	9.50	10.50	10.50	12.50	16.50
		Low	m ³ /min	7.50	7.50	8.50	8.50	10.00	13.00
Fan	External static pressure	High	Pa	44	44	44	44	44	44
		Standard	Pa	15	15	15	15	15	15
	Motor	Output (high)	W	62	62	62	62	130	130
		Drive		Direct drive					
Refrigerant	Name			R-410A					
Cooling	Sound Pressure	High	dBA	33.0	33.0	33.0	34.0	35.0	36.0
		Low	dBA	29.0	29.0	29.0	30.0	31.0	32.0
Heating	Sound Pressure	High	dBA	33.0	33.0	33.0	34.0	35.0	36.0
		Low	dBA	29.0	29.0	29.0	30.0	31.0	32.0
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	6.4	6.4	6.4	6.4	6.4	9.5
	Gas	Type		Flare connection					
		Diameter	mm	12.7	12.7	12.7	12.7	12.7	15.9
Drain		Diameter	mm	VP20 (I.D. 20/O.D. 26)					
Drain-up Height			mm	750	750	750	750	750	750
Air Filter				Removable/washable/Mildew proof					
Refrigerant control				Electronic expansion valve					
Temperature control				Microprocessor thermostat for cooling and heating					
Safety devices				PC board fuse					
				Fan motor thermal protector					

2-1 TECHNICAL SPECIFICATIONS		FXDQ20NVE	FXDQ25NVE	FXDQ32NVE	FXDQ40NVE	FXDQ50NVE	FXDQ63NVE
Standard Accessories	Standard Accessories	Metal clamp for drain hose					
	Quantity	1	1	1	1	1	1
	Standard Accessories	Drain hose					
	Quantity	1	1	1	1	1	1
	Standard Accessories	Insulation for fitting					
	Quantity	2	2	2	2	2	2
	Standard Accessories	Sealing Pads					
	Quantity	2	2	2	2	2	2
	Standard Accessories	Screws for duct flanges					
	Quantity	24	24	24	24	24	24
	Standard Accessories	Washer for hanging bracket					
	Quantity	8	8	8	8	8	8
	Standard Accessories	Clamps					
	Quantity	12	12	12	12	12	12
	Standard Accessories	Washer fixing plate					
	Quantity	4	4	4	4	4	4
	Standard Accessories	Sealing material					
	Quantity	2	2	2	2	2	2
	Standard Accessories	Operation manual					
	Quantity	1	1	1	1	1	1
	Standard Accessories	Air filter					
	Quantity	1	1	1	1	1	1

NOTES

- Nominal cooling capacities are based on:
 - indoor temperature: 27°CDB, 19°CWB
 - outdoor temperature: 35°CDB
 - equivalent refrigerant piping: 7.5m (horizontal)
- Nominal heating capacities are based on:
 - indoor temperature: 20°CDB
 - outdoor temperature: 7°CDB, 6°CWB
 - equivalent refrigerant piping: 7.5m (horizontal)
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- External static pressure can be changed by the remote control.
- The operation sound levels are conversion values in anechoic chamber. In practice, sound levels tend to be higher than the specified values due to ambient noise or reflection. When the suction place is changed to bottom suction, sound level will increase by approximately 5dBA.

2-2 ELECTRICAL SPECIFICATIONS			FXDQ20NVE	FXDQ25NVE	FXDQ32NVE	FXDQ40NVE	FXDQ50NVE	FXDQ63NVE
Power Supply	Name		VE	VE	VE	VE	VE	VE
	Phase		1	1	1	1	1	1
	Frequency	Hz	50	50	50	50	50	50
	Voltage	V	220-240					
Current	Minimum circuit amps (MCA)	A	0.90	0.90	0.90	1.00	1.00	1.10
	Maximum fuse amps (MFA)	A	15.00	15.00	15.00	15.00	15.00	15.00
	Full load amps (FLA)	A	0.70	0.70	0.70	0.80	0.80	0.90
Voltage range	Minimum	V	-10%					
	Maximum	V	+10%					

NOTES

- 1 Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 2 Maximum allowable voltage range variation between phases is 2%.
- 3 MCA/MFA:
 - $MCA = 1.25 \times FLA$
 - $MFA \leq 4 \times FLA$
- 4 next lower standard fuse rating minimum 15A
- 5 select wire size based on the MCA
- 6 instead of a fuse, use a circuit breaker

2 - 3 Safety device settings

FXDQ-NVE		20	25	32	40	50	63
PC BOARD FUSE		250V 5A					
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 130 ^{±5} / ON: 83 ^{±15}					

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3 Control systems

Individual control systems

WIRED REMOTE CONTROL		BRC1D527
INFRARED REMOTE CONTROL	Heat pump	BRC4C62
	Cooling only	BRC4C64
SIMPLIFIED REMOTE CONTROL		BRC2A51
REMOTE CONTROL FOR HOTEL USE		BRC3A61

Centralised control systems

CENTRALISED REMOTE CONTROL	DCS302C51
UNIFIED ON/OFF CONTROL	DCS301B51
SCHEDULE TIMER	DST301B51

Others

WIRING ADAPTER	KRP1B56
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)	KRP2A53
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)	KRP4A54
REMOTE SENSOR	KRCS01-1
INSTALLATION BOX FOR ADAPTER PCB	KRP1B101
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)	KJB212A
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)	KJB311A
NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)	KEK26-1
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (MUST BE INSTALLED ON INDOOR UNIT)	DTA104A53

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4 Capacity tables

4 - 1 Cooling capacity tables

FXDQ-NVE																
TC: Total capacity;KW – SHC: Sensible capacity;KW																
Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	2.2	10.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.9	2.0
		12.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.9	2.0
		14.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.8	1.9
		16.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.8	1.9
		18.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.7	1.9
		20.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.7	1.9
		21.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.7	1.9
		23.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.6	1.9
		25.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.6	1.8	2.6	1.9
		27.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.8	2.6	1.9
		29.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.8	2.5	1.8
		31.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.7	2.5	1.8
		33.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.7	2.5	1.8
		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
		37.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.3	1.7	2.4	1.8
		39.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.2	1.9	2.3	1.6	2.3	1.8
25	2.8	10.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.7	2.3
		12.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.2
		14.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.2
		16.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2
		18.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2
		20.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.2
		21.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.2
		23.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.3	2.2	3.4	2.1
		25.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.3	2.2	3.3	2.1
		27.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.2	2.2	3.3	2.1
		29.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.2	2.1	3.2	2.1
		31.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.1	2.1	3.2	2.1
		33.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.1	2.1	3.1	2.1
		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
		37.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.0	3.0	2.0
		39.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.1	2.9	2.0	3.0	2.0
32	3.6	10.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.7	2.9
		12.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.7	2.9
		14.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.6	2.8
		16.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.6	2.8
		18.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.5	2.8
		20.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.4	2.8
		21.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.3	2.8	4.4	2.7
		23.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.2	2.8	4.3	2.7
		25.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.2	2.7	4.3	2.7
		27.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.1	2.7	4.2	2.7
		29.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.1	2.7	4.2	2.6
		31.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	4.0	2.6	4.1	2.6
		33.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	3.9	2.6	4.0	2.6
		35.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.8	2.7	3.9	2.6	4.0	2.5
		37.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.7	2.6	3.8	2.6	3.9	2.5
		39.0	2.4	2.0	2.9	2.3	3.4	2.4	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.5

4 Capacity tables

4 - 1 Cooling capacity tables

FXDQ-NVE

TC: Total capacitykW – SHC: Sensible capacitykW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
40	4.5	10.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.9	3.5
		12.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.8	3.5
		14.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.8	3.5
		16.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.7	3.5
		18.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.6	3.4
		20.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.5	3.4
		21.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.4	3.3	5.5	3.4
		23.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.3	3.3	5.4	3.3
		25.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.2	3.3	5.3	3.3
		27.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.2	3.2	5.3	3.3
		29.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.1	3.2	5.2	3.3
		31.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	5.0	3.2	5.1	3.2
		33.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.8	3.2	4.9	3.2	5.0	3.2
		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
		37.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.7	3.2	4.8	3.1	4.9	3.1
		39.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.6	3.2	4.7	3.1	4.8	3.1
50	5.6	10.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	7.4	4.1
		12.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	7.3	4.1
		14.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	7.2	4.1
		16.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	7.1	4.0
		18.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	7.0	4.0
		20.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	6.9	4.0
		21.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.7	4.2	6.8	4.0
		23.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.6	4.2	6.7	3.9
		25.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.5	4.1	6.6	3.9
		27.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.4	4.1	6.6	3.9
		29.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.3	4.0	6.5	3.8
		31.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.2	4.0	6.4	3.8
		33.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	6.0	4.0	6.1	4.0	6.3	3.8
		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
		37.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	5.8	4.0	5.9	3.9	6.1	3.7
		39.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	5.7	3.9	5.8	3.9	6.0	3.7
63	7.1	10.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	9.3	5.7
		12.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	9.2	5.6
		14.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	9.1	5.5
		16.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	9.0	5.4
		18.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	8.8	5.4
		20.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	8.7	5.3
		21.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.5	5.1	8.7	5.3
		23.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.4	5.1	8.5	5.2
		25.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.3	5.0	8.4	5.1
		27.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.1	5.0	8.3	5.1
		29.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	8.0	4.9	8.2	5.0
		31.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	7.9	4.9	8.1	4.9
		33.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.6	4.9	7.8	4.8	7.9	4.9
		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
		37.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.4	4.8	7.5	4.7	7.7	4.8
		39.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.2	4.7	7.4	4.7	7.6	4.7

4 Capacity tables

4 - 2 Heating capacity tables

FXDQ-NVE									
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
20	2.5	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
		-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
		-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
		-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
		-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
		-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
		-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
		0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
		13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2
		15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2
25	3.2	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
		-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
		-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
		-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
		-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
		0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
		3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
		5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
		13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
		15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8
32	4.0	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
		-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
		-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
		-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
		-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
		-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
		-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
		-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
		-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
		-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
		0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
		3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
		13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
		15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5

4 Capacity tables

4 - 2 Heating capacity tables

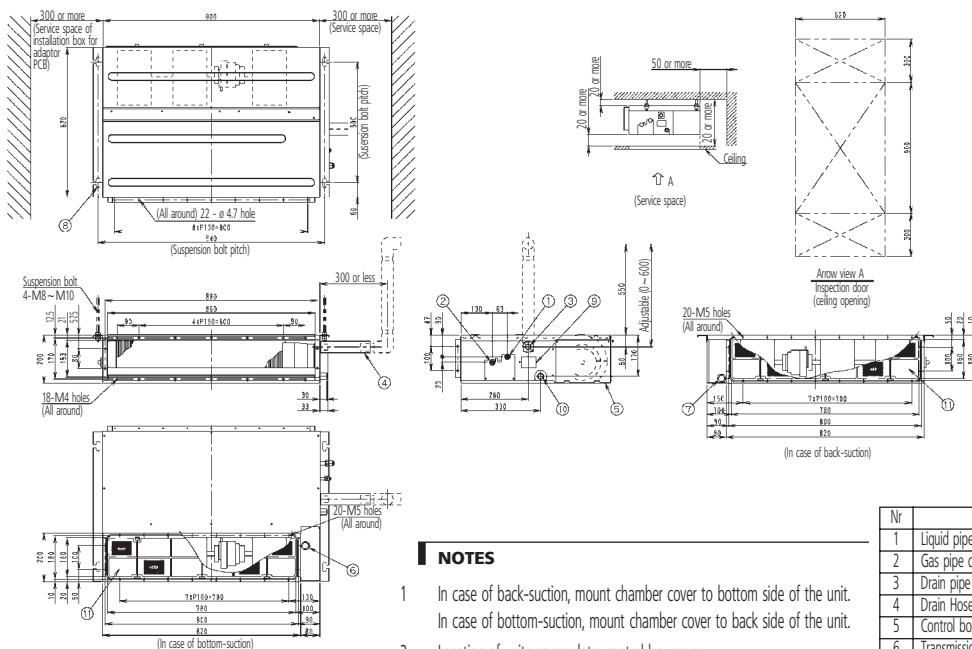
FXDQ-NVE

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
		13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4
		15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
		11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
		13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
		15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5
63	8.0	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
		-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
		-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
		-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
		-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
		-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
		-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
		-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
		-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
		-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
		-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
		0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
		3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
		5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
		7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
		9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
		11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
		13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0
		15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

FXDQ20,25,32,40,50NVE



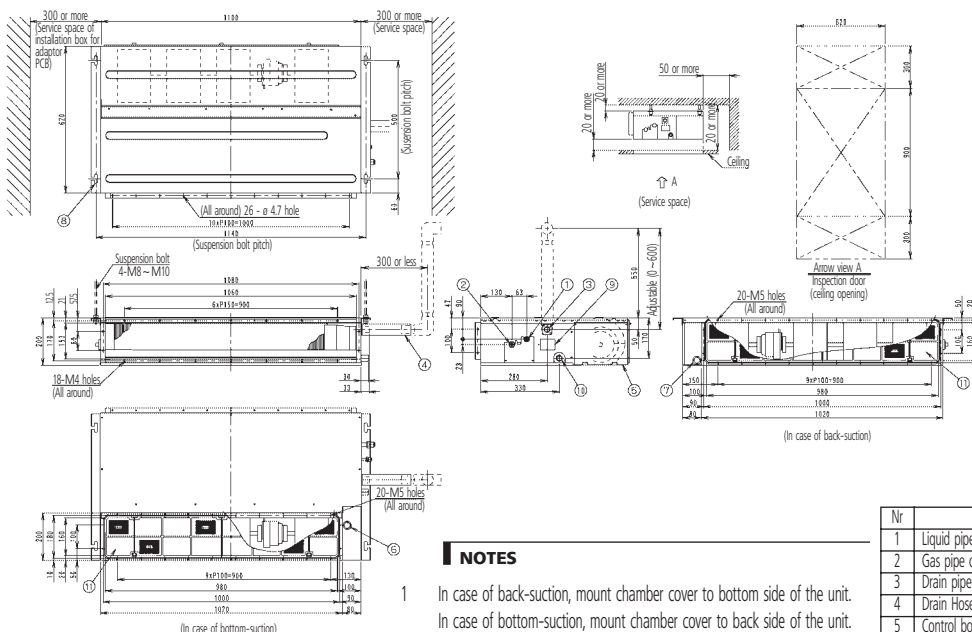
NOTES

- In case of back-suction, mount chamber cover to bottom side of the unit.
In case of bottom-suction, mount chamber cover to back side of the unit.
- Location of units name plate: control box cover
- Mount the air filter at the suction side. (Select its color (gravity method) 50 % or more).
it can not be equipped with air filter (accessory) when connecting duct to suction side.

Nr	Part name	Description
1	Liquid pipe connection port	ø 6.4 Flare connection
2	Gas pipe connection port	ø 12.7 Flare connection
3	Drain pipe connection port	1VP20 (O.D. ø 26/I.D. ø 20)
4	Drain Hose (accessory)	I.D. ø 25 (outlet)
5	Control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection door	
10	Socket for drain	
11	Air filter (accessory)	

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FXDQ63NVE



NOTES

- In case of back-suction, mount chamber cover to bottom side of the unit.
In case of bottom-suction, mount chamber cover to back side of the unit.
- Location of units name plate: control box cover
- Mount the air filter at the suction side. (Select its color (gravity method) 50 % or more).
it can not be equipped with air filter (accessory) when connecting duct to suction side.

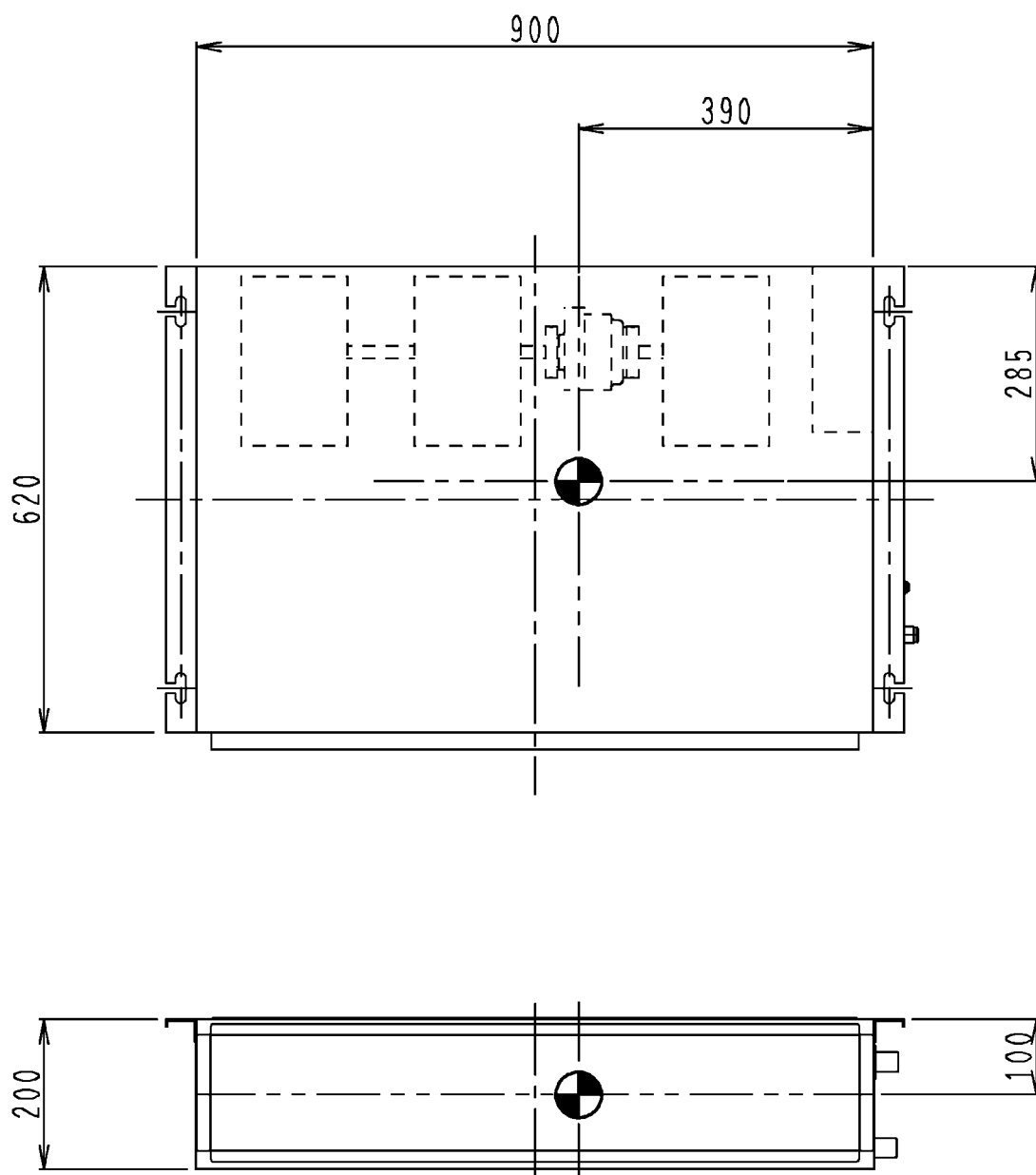
Nr	Part name	Description
1	Liquid pipe connection port	ø 9.5 Flare connection
2	Gas pipe connection port	ø 15.9 Flare connection
3	Drain pipe connection port	VP20 (O.D. ø 26/I.D. ø 20)
4	Drain Hose (accessory)	I.D. ø 25 (outlet)
5	Control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection door	
10	Socket for drain	
11	Air filter (accessory)	

3D045496

5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

FXDQ20,25,30,40,50NVE

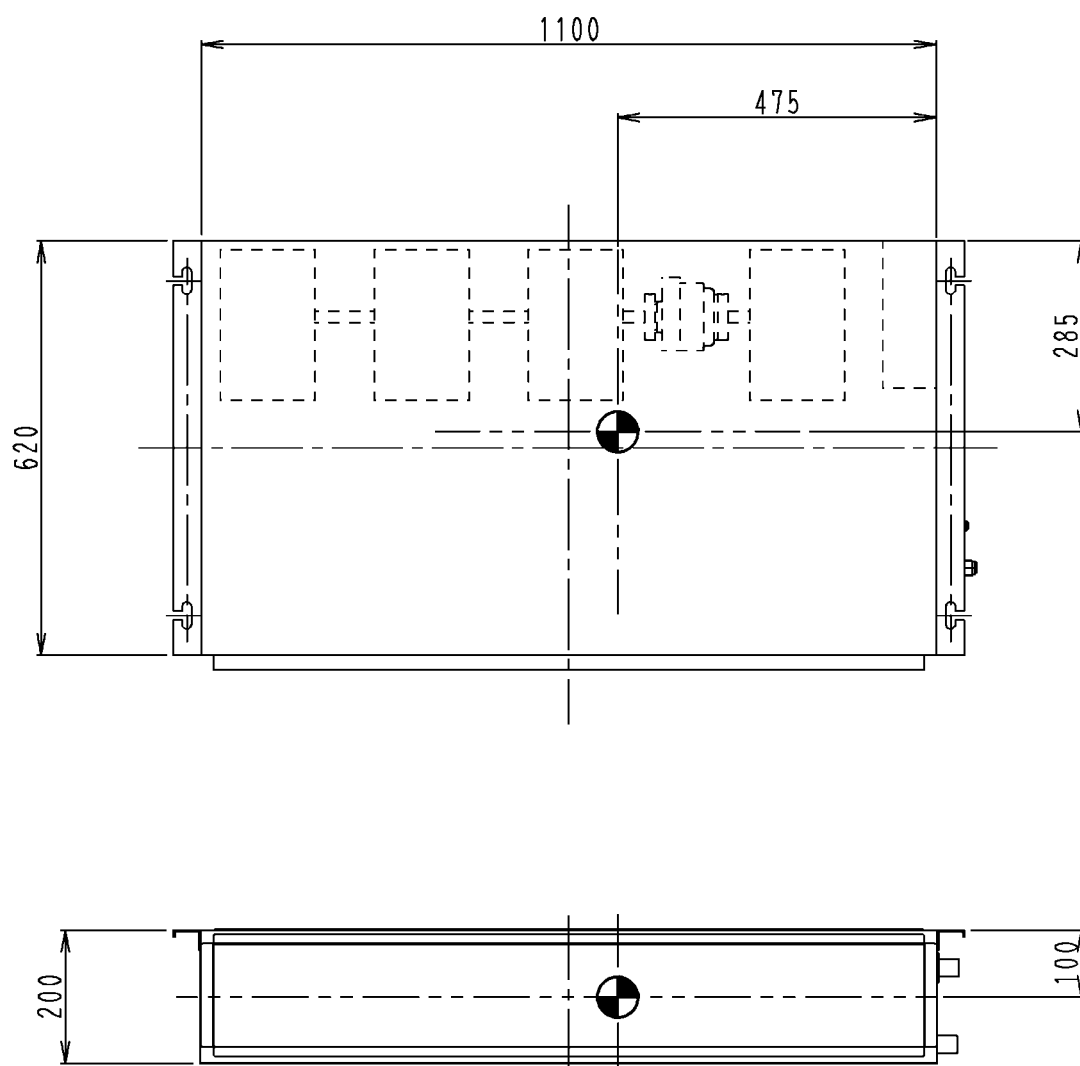


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5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

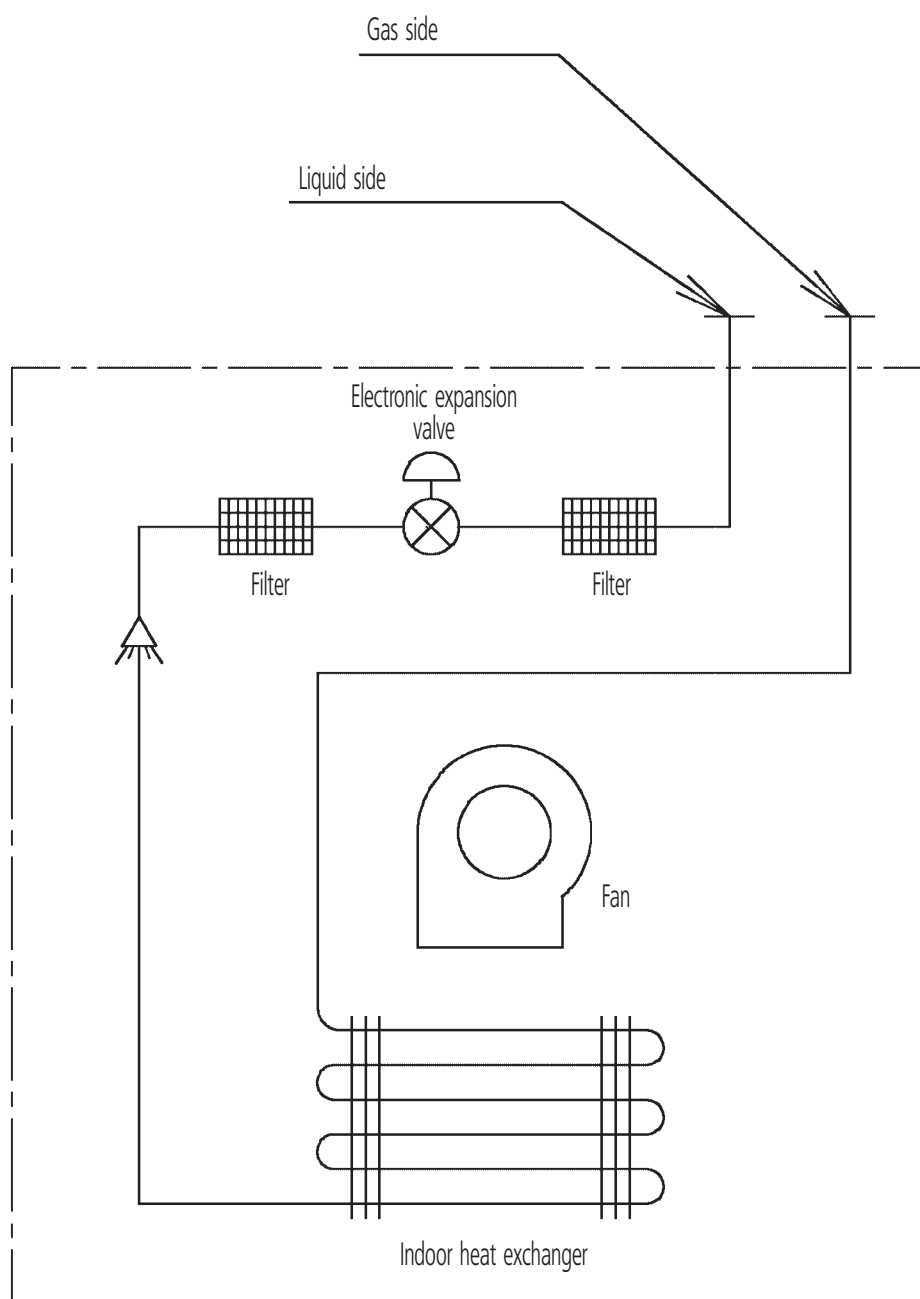
FXDQ63NVE



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6 Piping diagram

FXDQ-NVE



4D043864A

7 Wiring diagram

 : Terminal strip
 : Connector
 : Field wiring

RED : Red
WHT : White
GRN : Green
PRP : Purple
PNK : Pink

- 1 When using a centralised remote control, connect it to the unit in accordance with the attached installation manual.
- 2 Remote control model varies according to the combination system, confirm engineering materials and catalogs. etc. before connecting.
- 3 When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control, in details, refer to the installation manual attached the unit.

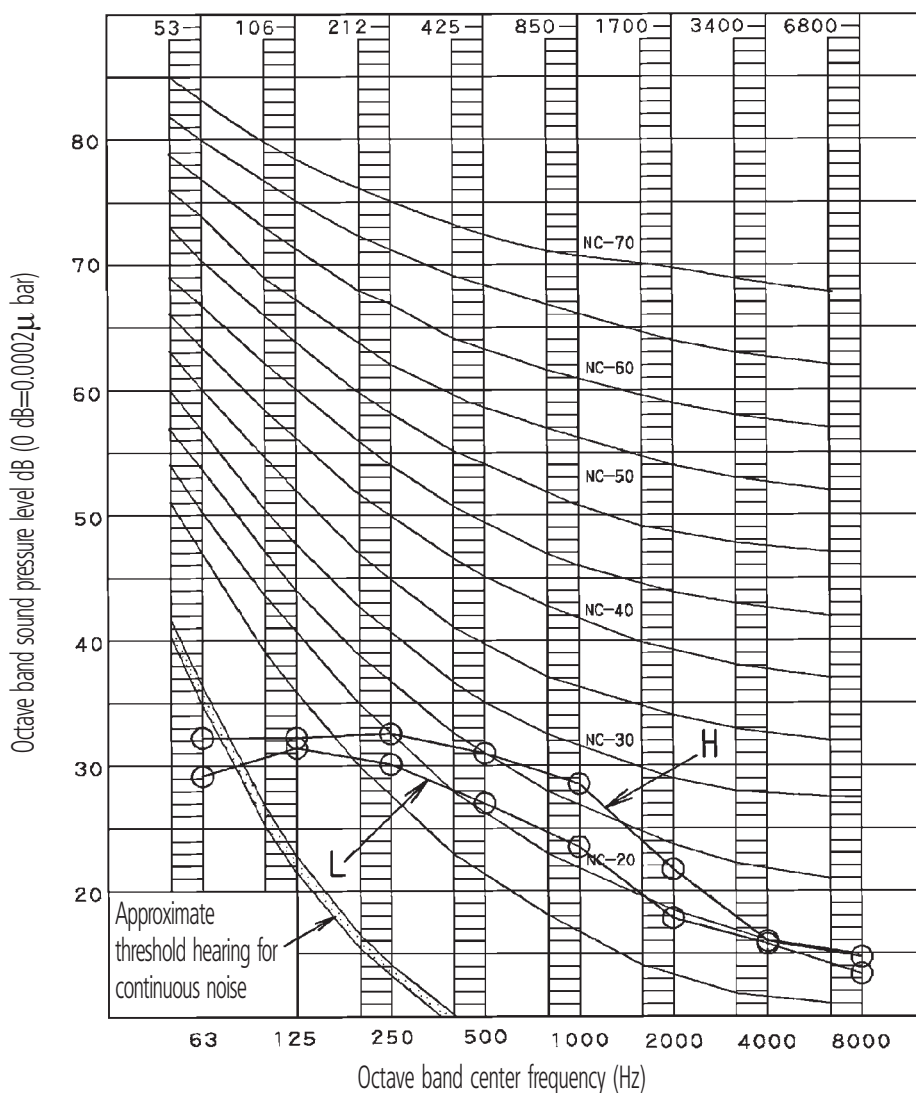
179

8 Sound data

8 - 1 Sound pressure spectrum

FXDQ20NVE

4D046281



NOTES

1 Over all (dB):

Scale	Air flow rate	
	Hi	Low
A	33	29

2 Operating conditions:

Power source 220~240V 50 Hz / 220 V 60 Hz

Cooling:

Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating:

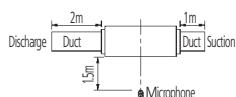
Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

3 Measuring place:

Anechoic chamber

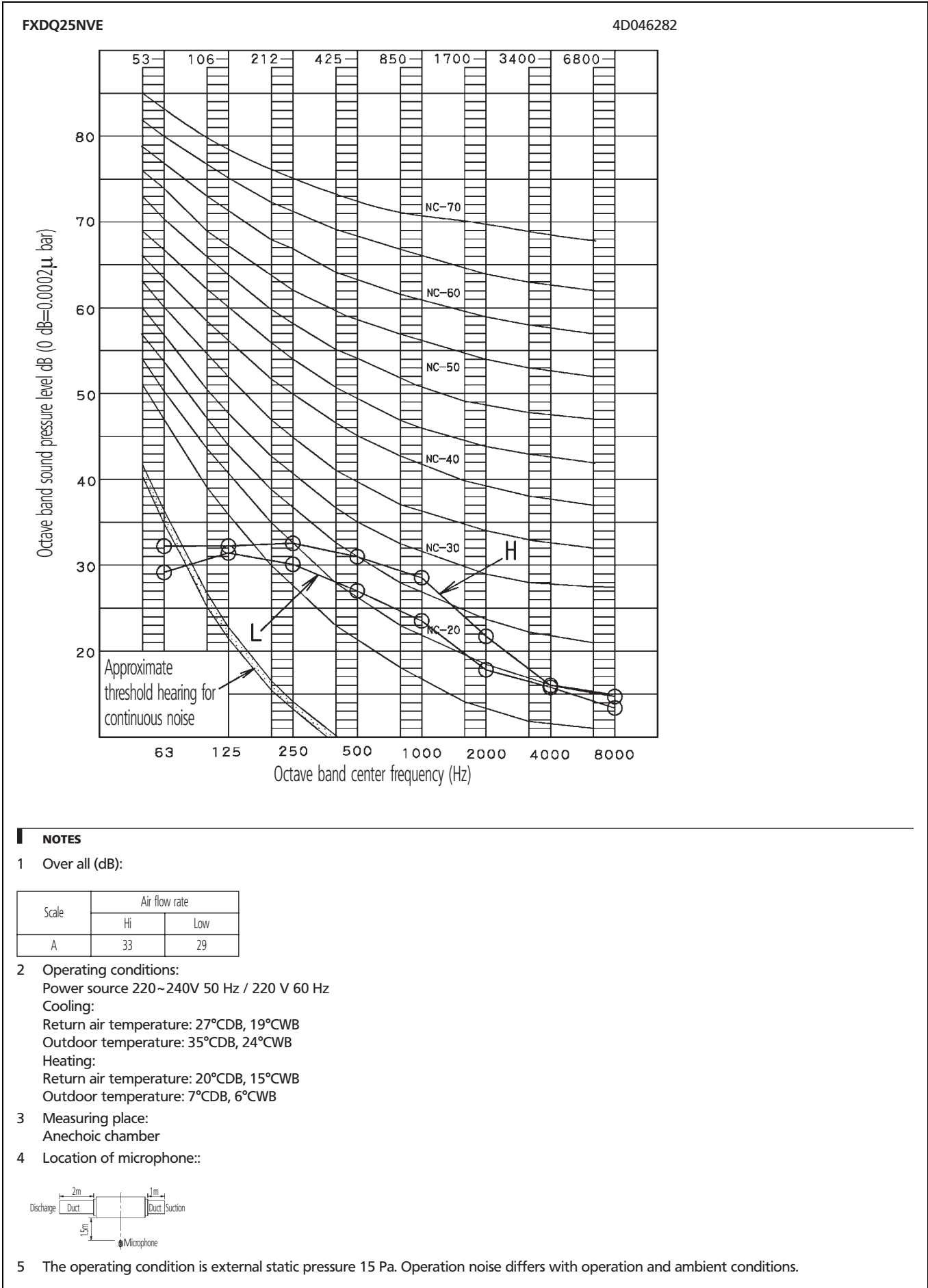
4 Location of microphone:



5 The operating condition is external static pressure 15 Pa. Operation noise differs with operation and ambient conditions.

8 Sound data

8 - 1 Sound pressure spectrum

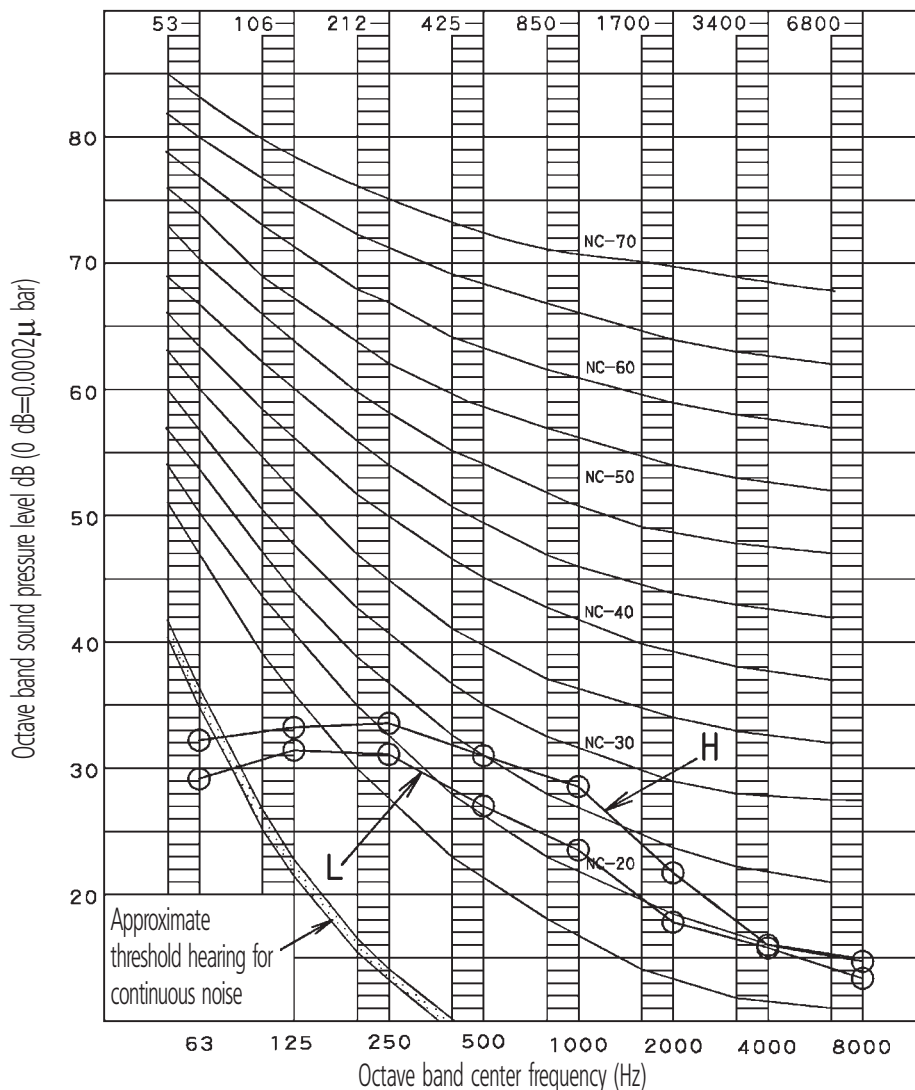


8 Sound data

8 - 1 Sound pressure spectrum

FXDQ32NVE

4D046283



NOTES

1 Over all (dB):

Scale	Air flow rate	
	Hi	Low
A	33	29

2 Operating conditions:

Power source 220~240V 50 Hz / 220 V 60 Hz

Cooling:

Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating:

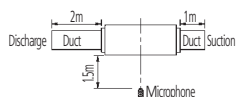
Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

3 Measuring place:

Anechoic chamber

4 Location of microphone:



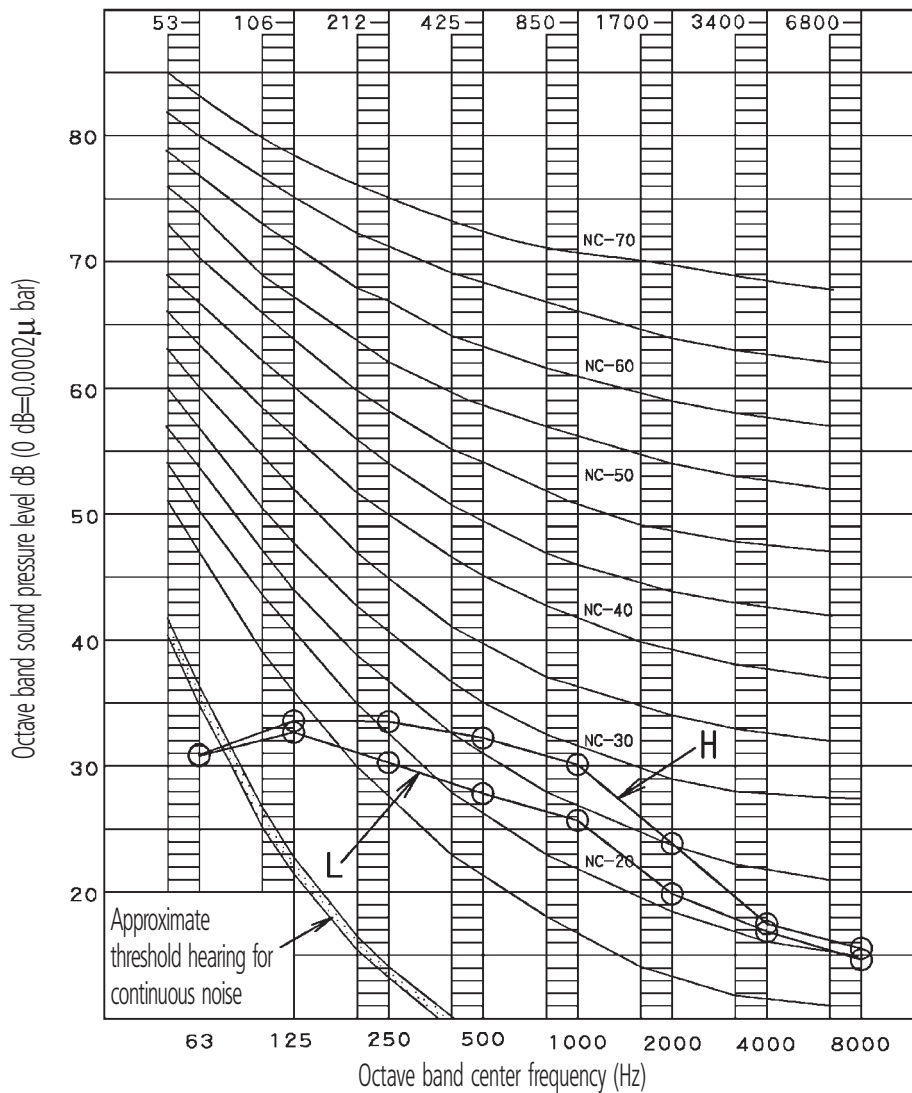
5 The operating condition is external static pressure 15 Pa. Operation noise differs with operation and ambient conditions.

8 Sound data

8 - 1 Sound pressure spectrum

FXDQ40NVE

4D046284



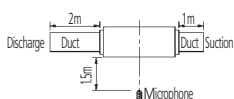
NOTES

- Over all (dB):

Scale	Air flow rate	
	Hi	Low
A	34	30

- Operating conditions:
Power source 220~240V 50 Hz / 220 V 60 Hz
Cooling:
Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
Heating:
Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB

- Measuring place:
Anechoic chamber
- Location of microphone:



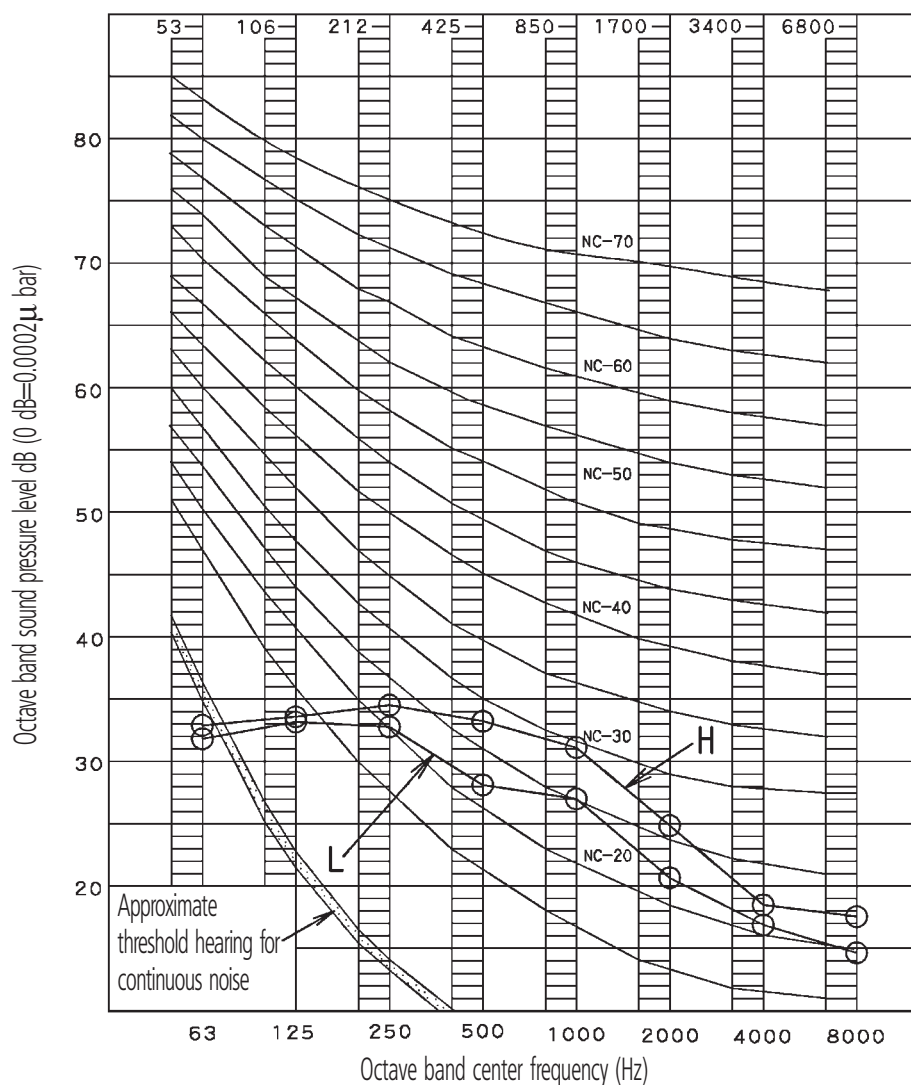
- The operating condition is external static pressure 15 Pa. Operation noise differs with operation and ambient conditions.

8 Sound data

8 - 1 Sound pressure spectrum

FXDQ50NVE

4D046285



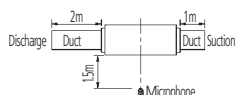
NOTES

- Over all (dB):

Scale	Air flow rate	
	Hi	Low
A	35	31

- Operating conditions:
Power source 220~240V 50 Hz / 220 V 60 Hz
Cooling:
Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
Heating:
Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB

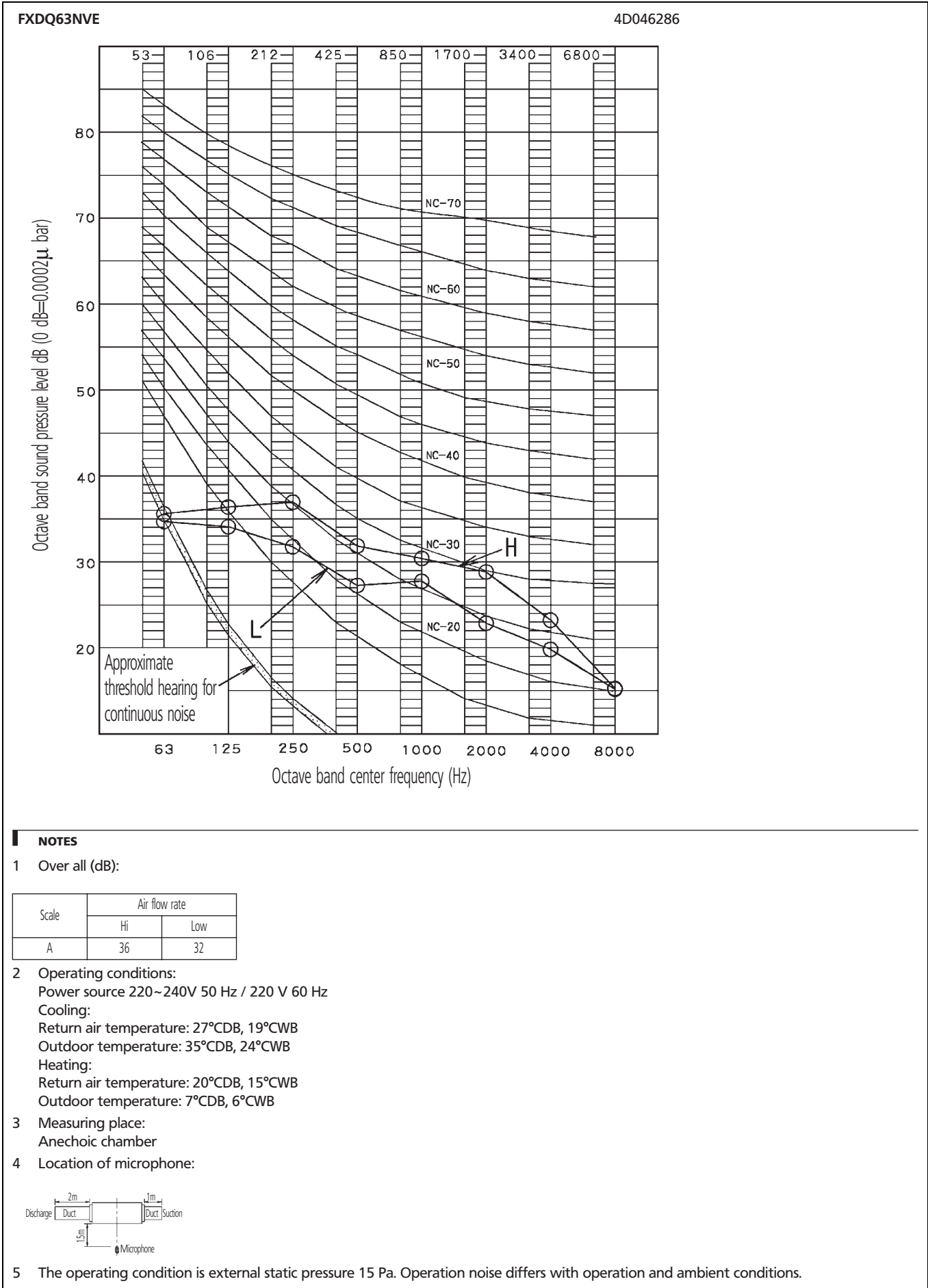
- Measuring place:
Anechoic chamber
- Location of microphone:



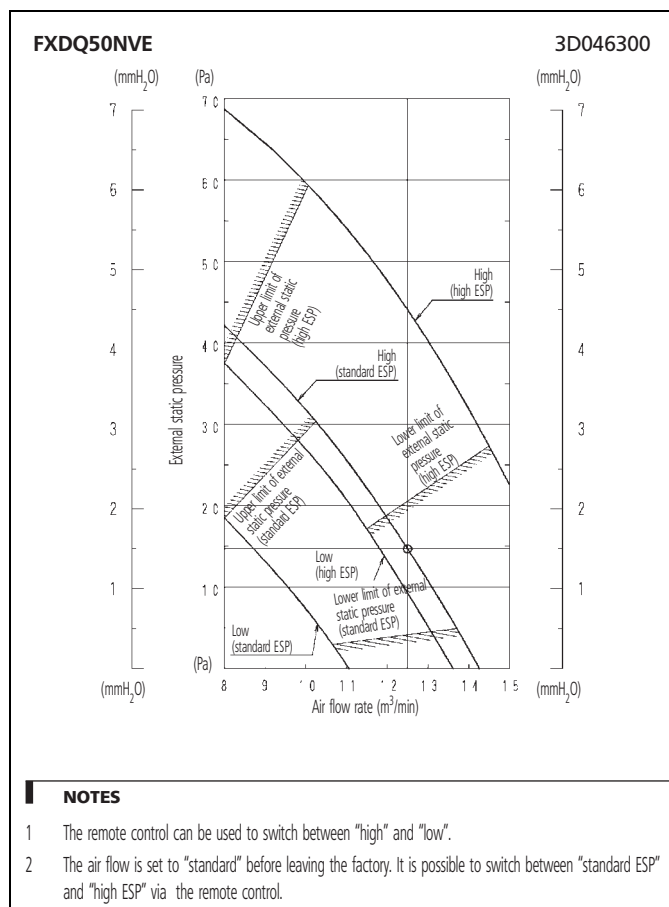
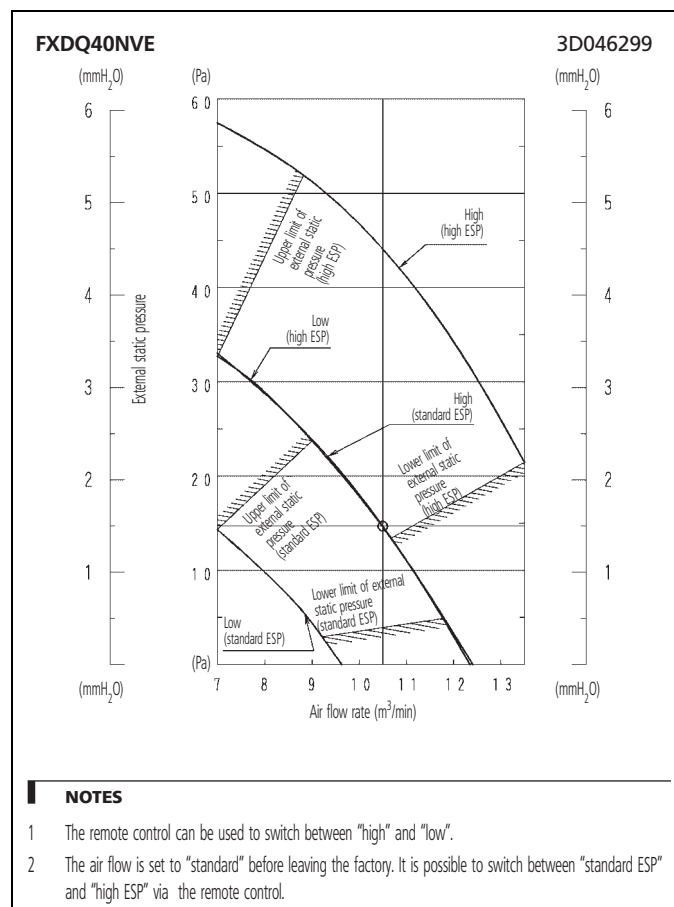
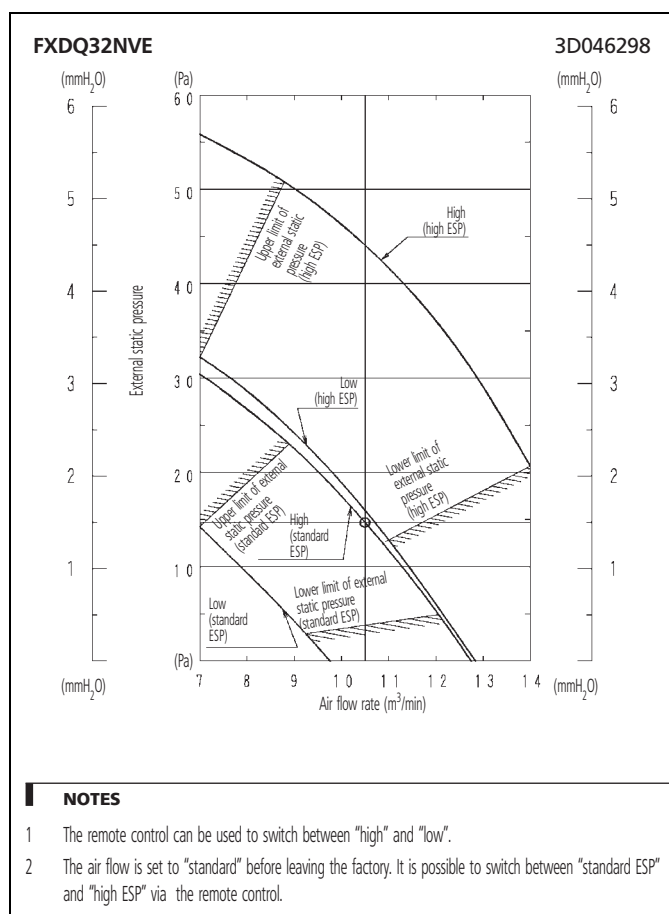
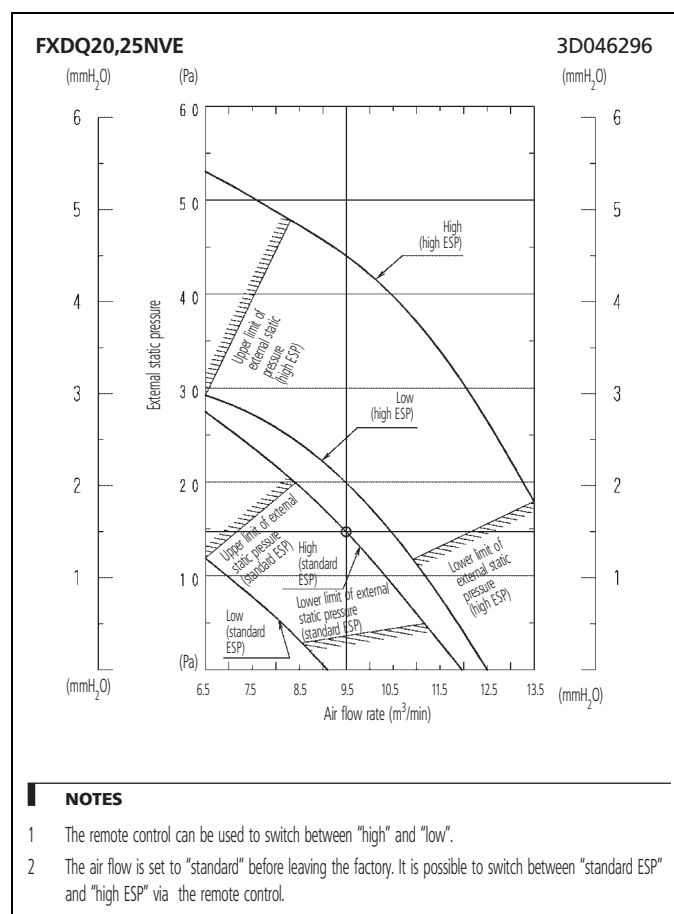
- The operating condition is external static pressure 15 Pa. Operation noise differs with operation and ambient conditions.

8 Sound data

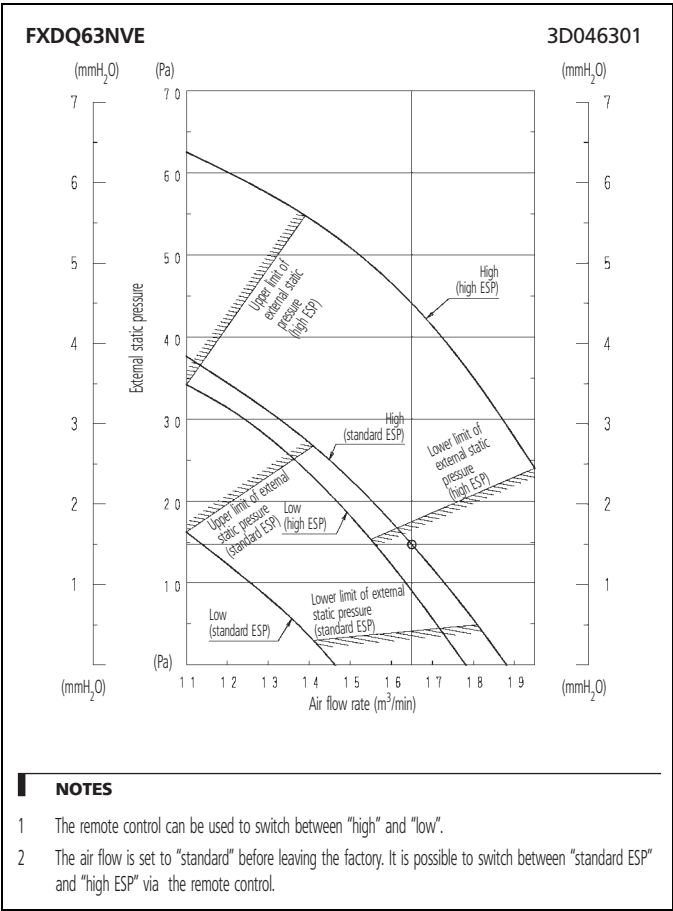
8 - 1 Sound pressure spectrum



9 Fan characteristics



9 Fan characteristics



2

VRV II
Systems



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin units comply with the European regulations that guarantee the safety of the product.

VRV products are not within the scope of the Eurovent certification programme.

Daikin equipment is designed for comfort applications. For use in other applications, please contact your local Daikin representative.

Specifications are subject to change without prior notice

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