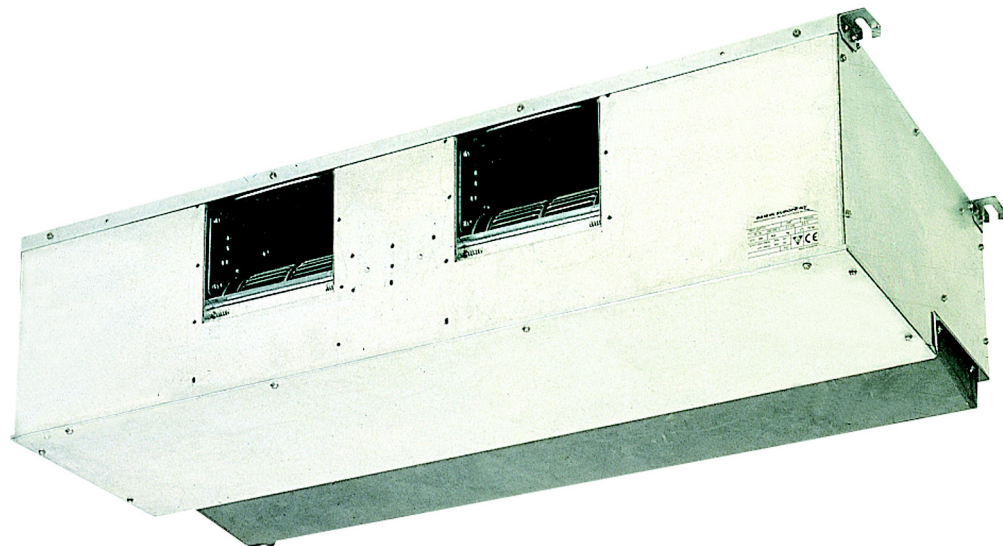




# Air Conditioning Technical Data

Concealed ceiling unit



EEDEN13-100

FDQ-B



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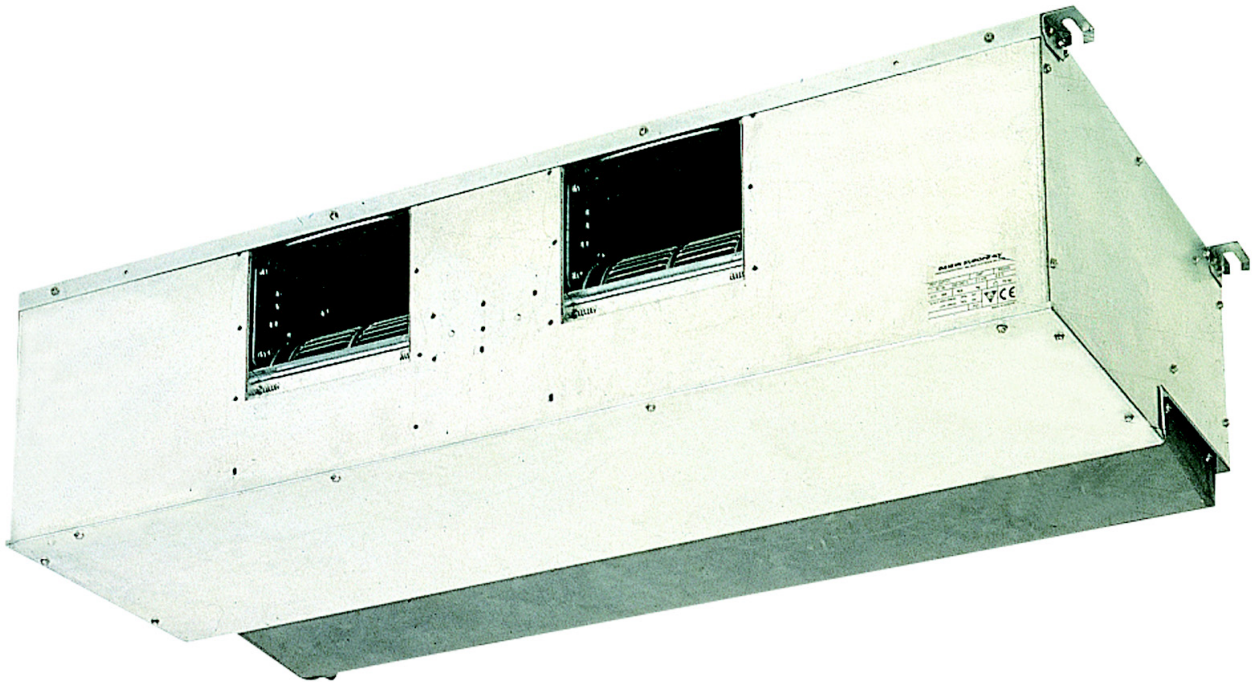
## FDQ-B

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# 1 Features

- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 250Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Up to 26.4kW in heating mode
- Standard built-in drain pump increases reliability of the drain system

1



heat pump



2 steps:  
FDQ250, 3  
steps:  
FDQ125,200



standard



## 2 Specifications

2-1 Technical Specifications				FDQ200B	FDQ250B	
Power input - 50Hz	Cooling	Nom.	kW	1,340		
	Heating	Nom.	kW	1,340		
Casing	Colour				Unpainted	
	Material				Galvanised steel	
Dimensions	Unit	Height/Width/Depth	mm	450/1,400/900		
	Packed unit	Height/Width/Depth	mm	607/1,515/1,055		
Required ceiling void >			mm	450		
Weight	Unit			89.0	94.0	
	Packed unit			108.0	113.0	
Heat exchanger	Length			1,200		
	Rows	Quantity		3		
	Fin pitch			2.00		
	Passes	Quantity		12		
	Face area			0.634		
	Stages	Quantity		24		
	Empty tubeplate hole	Quantity		0		
	Tube type			ø8 Hi-XSS		
	Fin	Type				Non-symmetric fin
		Treatment				Hydrophilic
Fan	Type				Sirocco fan	
	Quantity				2	
	Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	69.0	89.0
		Heating	Nom.	m <sup>3</sup> /min	69.0	89.0
	External static pressure	High			250	
Nom.				250		
Low				250		
Fan motor	Quantity				1	
	Model				DPC241-241NB	
	Drive				Direct drive	
	Speed	Steps			3	2
	Output	High	W			650
Sound power level	Cooling	Nom.	dBA	81.0	82.0	
Sound pressure level	Cooling	High	dBA	45.0	47.0	
	Heating	Super high/Low	dBA	-/45.0	-/47.0	
Refrigerant	Type				R-410A	
Piping connections	Liquid	Type/OD	mm	Flare connection/9.52	Flare connection/12.7	
	Gas	Type/OD	mm	Braze connection/22.2		
	Drain				25	
	Heat insulation				Both liquid and gas pipes	
Temperature control				Microprocessor thermostat for cooling and heating		
Air direction control				Up and downwards		
Air filter	Type				Resin net with mold resistance	
Safety devices	Item	01		Fan motor thermal fuse		

Standard Accessories : Installation and operation manual; Quantity : 1;

2-2 Electrical Specifications				FDQ200B	FDQ250B
Power supply	Name				V3
	Phase				1~
	Frequency			Hz	50
	Voltage			V	230
Voltage range	Min.			%	-10
	Max.			%	10
Current - 50Hz	Zmax			List	No requirements
Power supply intake				Both indoor and outdoor unit	

## 2 Specifications

### Notes

- (1) Sound values are measured in a semi-anechoic room with corrections.
- (2) The sound pressure level is measured via a microphone at 1m distance of the unit.
- (3) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.
- (4) The sound power level is an absolute value indicating the power which a sound source generates.
- (5) For more details, please refer to wiring diagram, name plate and installation manual.

### 3 Options

#### 3 - 1 Options

##### FDQ-B

Option	Option name	FDQ200B	FDQ250B
Wiring adapter for electrical appendices	KRP4A51	X	X
Adapter for wiring (interlock for fresh air intake)	KRP1B54	X	X
Interface adapter for Sky Air series	DTA102A52	-	-
	DTA112B51	X	X
Central remote controller	DCS302C51	X	X
Unified ON/OFF controller	DCS301B51	X	X
Schedule timer	DST301B51	X	X
Option PCB for external electrical heater, humidifier and/or hour meter	EKRP1B2	X	X
Wired remote controller	BRC1D52	X	X
Wired remote controller	BRC1E51A7 *1	X	X
Wired remote controller	BRC1E52A7 *2	X	X
Wired remote controller	BRC1E52B7 *3	X	X
Remote ON/OFF and FORCED OFF kit	EKRORO	X	X

##### NOTES

Connection with hour meter is possible by using the EKRP1B2.

\*1 Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.

\*2 Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.

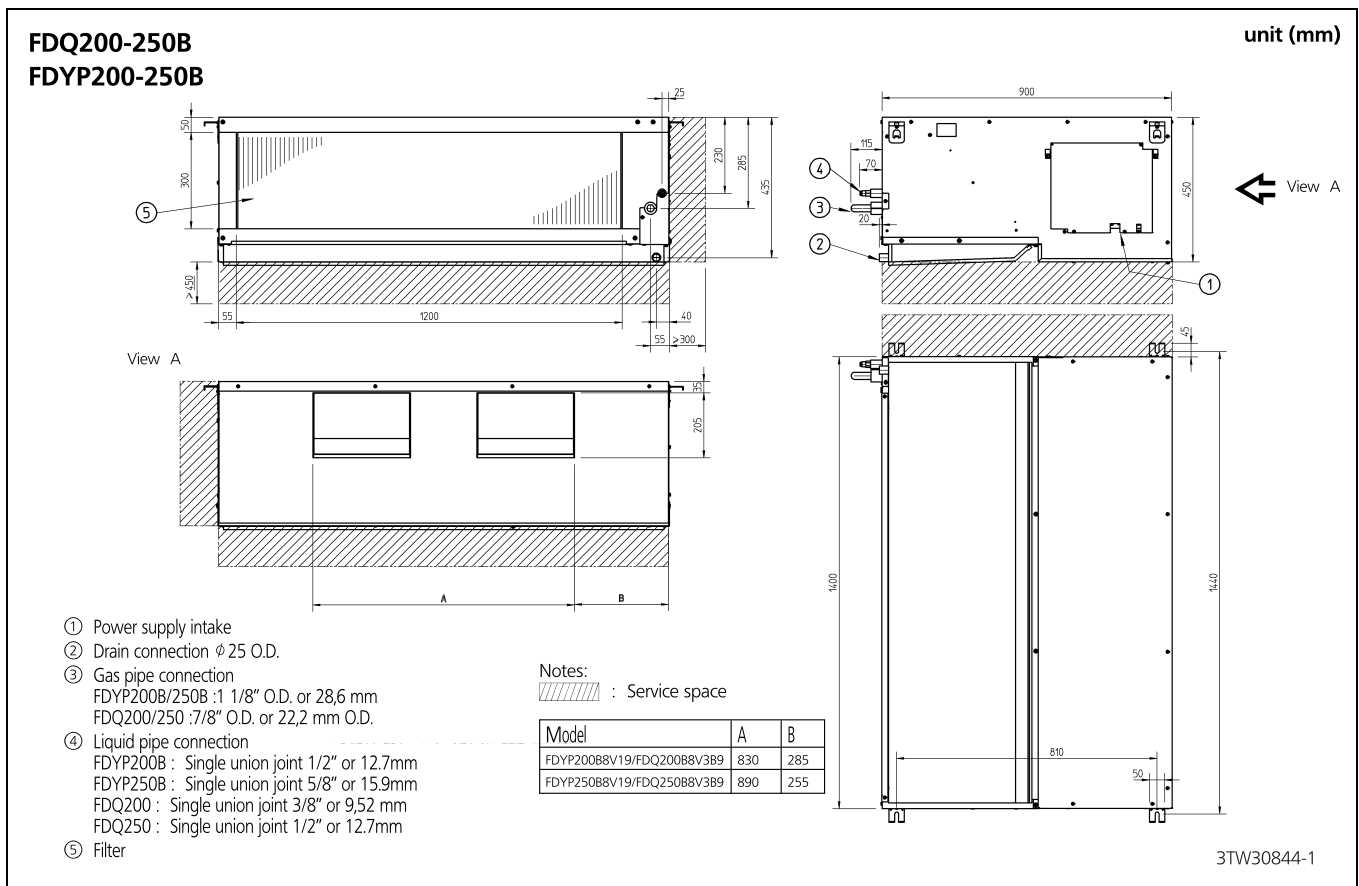
\*3 Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.

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# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

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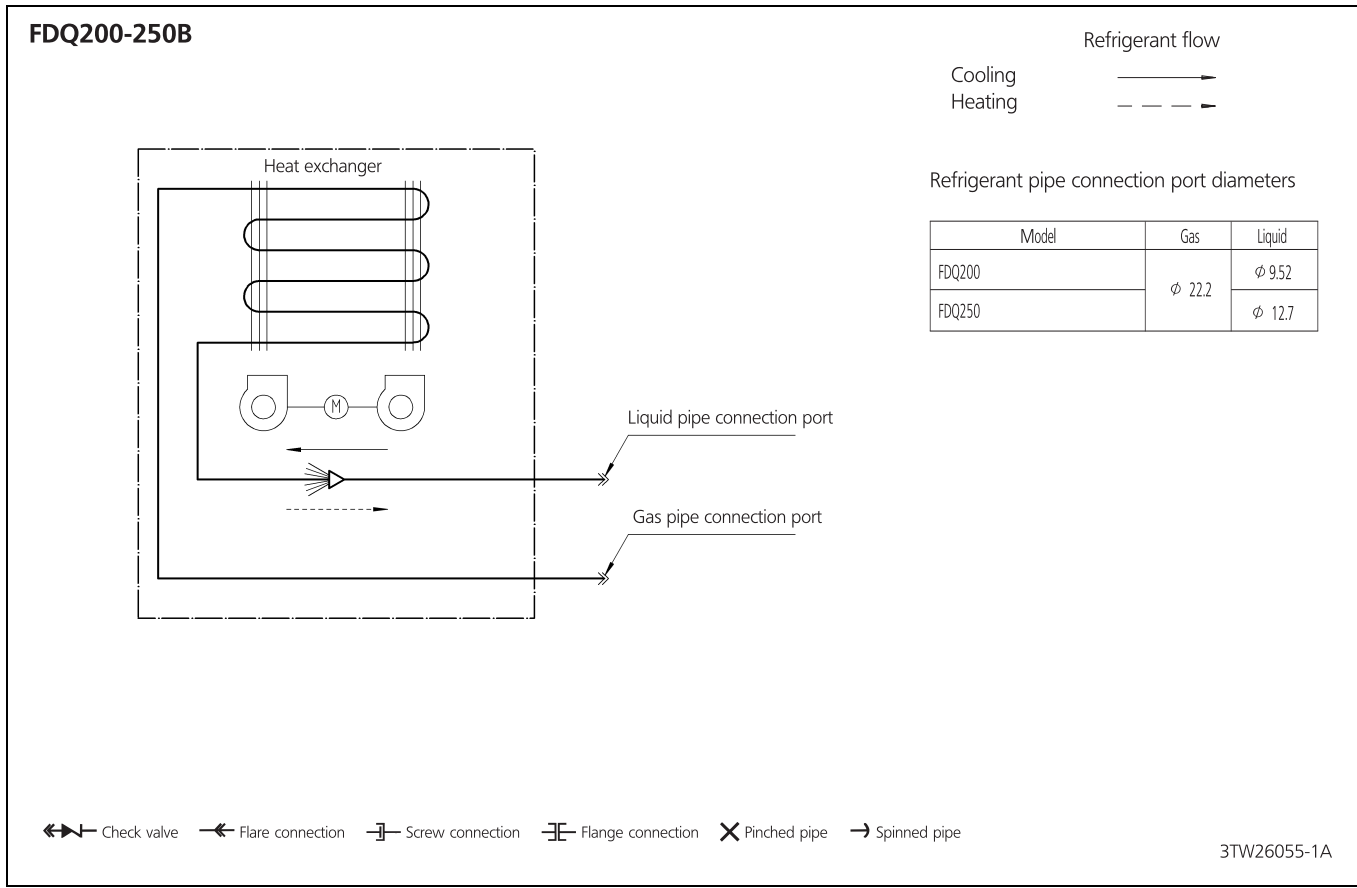


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# 5 Piping diagrams

## 5 - 1 Piping Diagrams



# 6 Wiring diagrams

## 6 - 1 Wiring Diagrams - Single Phase

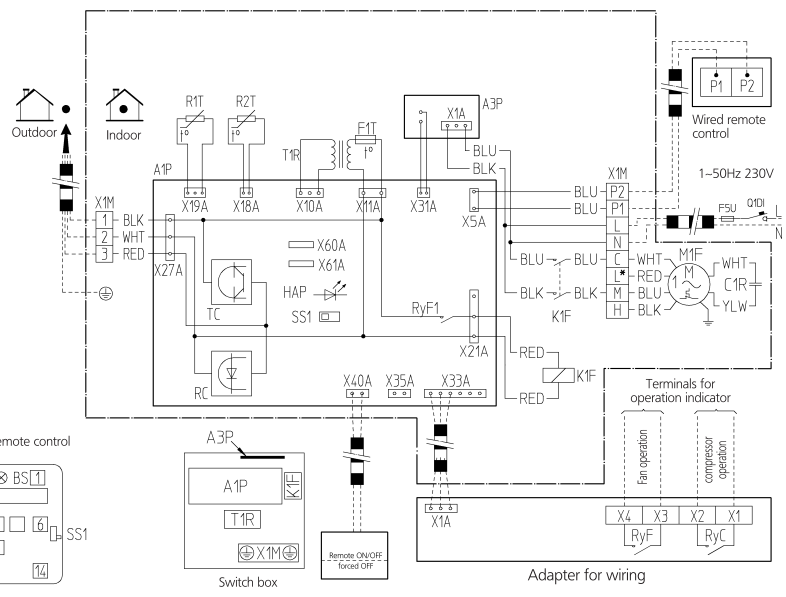
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### FDQ-B

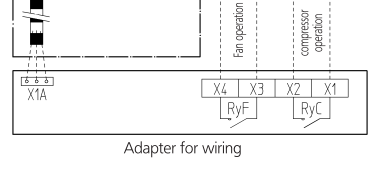
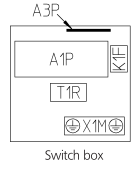
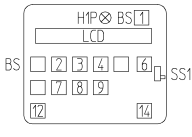
#### Notes

- When using the central remote control, see manual for connection to the unit.
- Be sure that the power supply is switched off before opening the switch box.  
\* L-tap is not available for 250 class.

Field wiring Terminal  
 Connector Protective earth (screw)  
 Colours  
 BLK: Black / BLU: Blue  
 RED: Red / WHT: White / YLW: Yellow



Details of wired remote control



A1P	Printed circuit board	R1T	Thermistor (air)	Wired remote control	
T1R	Transformer(230V / 21.8V)	R2T	Thermistor (coil)	BS1	On/Off button
A3P	Printed circuit board	RyF1	Magnetic relay (fan)	BS2	Timer mode start/stop button
C1R	Capacitor (fan)	SS1	Selector switch (emergency)	BS3,BS5	Programming time button
F1T	Thermal fuse (M1F embedded)	X1M	Terminal strip	BS4	Temperature setting button up
HAP	Light emitting diode (service monitor green)	RC	Signal receiver circuit	BS9	Temperature setting button down
K1F	Magnetic contactor (M1F)	TC	Signal transmission circuit	BS6	Operation mode selector button
M1F	Motor (Fan)	FSU	Fuse	BS7	Timer on/off button
		Q1DX	Earth leakage breaker	BS12	Inspection/test operation button

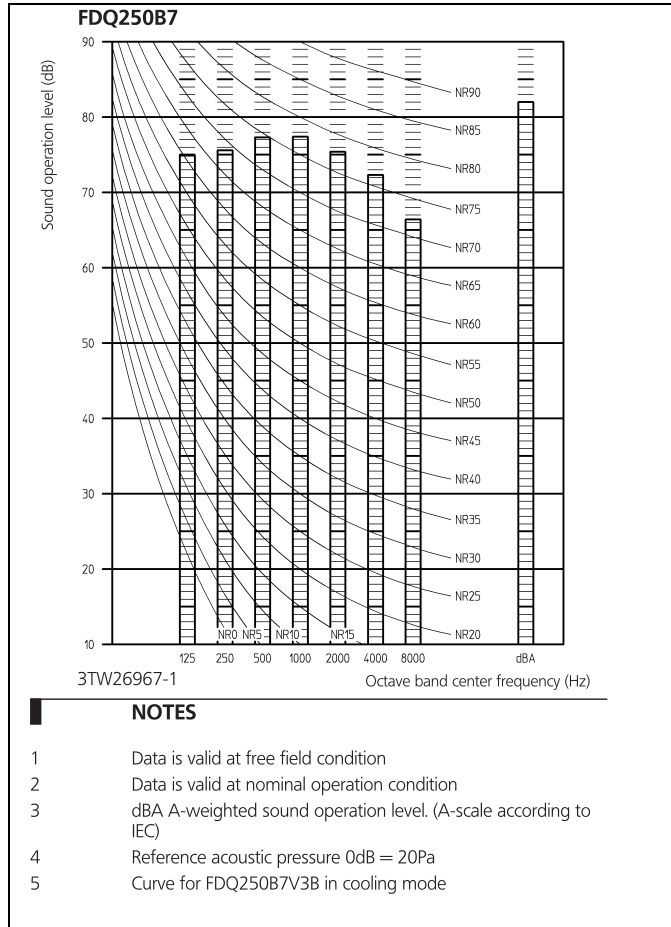
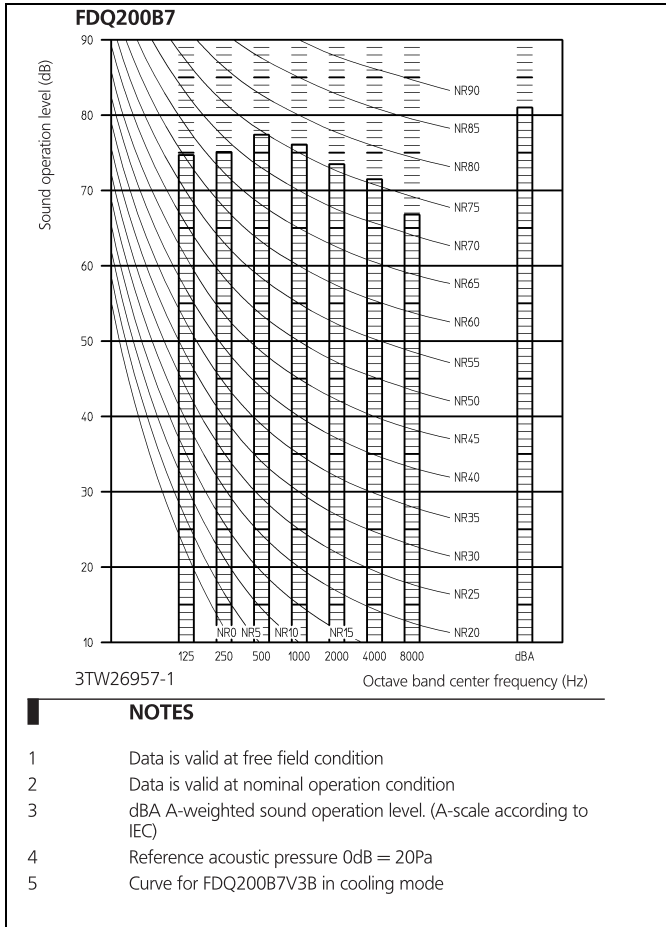
BS14	Filter sign reset button
H1P	Light emitting diode (service monitor red)
LCD	Liquid crystal display
SS1	Selector switch (main/sub)

Adapter for wiring	
RyC,RyF	Magnetic relay
Connector for optional parts	
X160A	Connector (interface adapter for SKY AIR / US series)
X161A	Connector (adapter for wiring)
X33A	Connector (group control adapter)
X40A	Connector (remote ON/OFF, forced OFF)

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# 7 Sound data

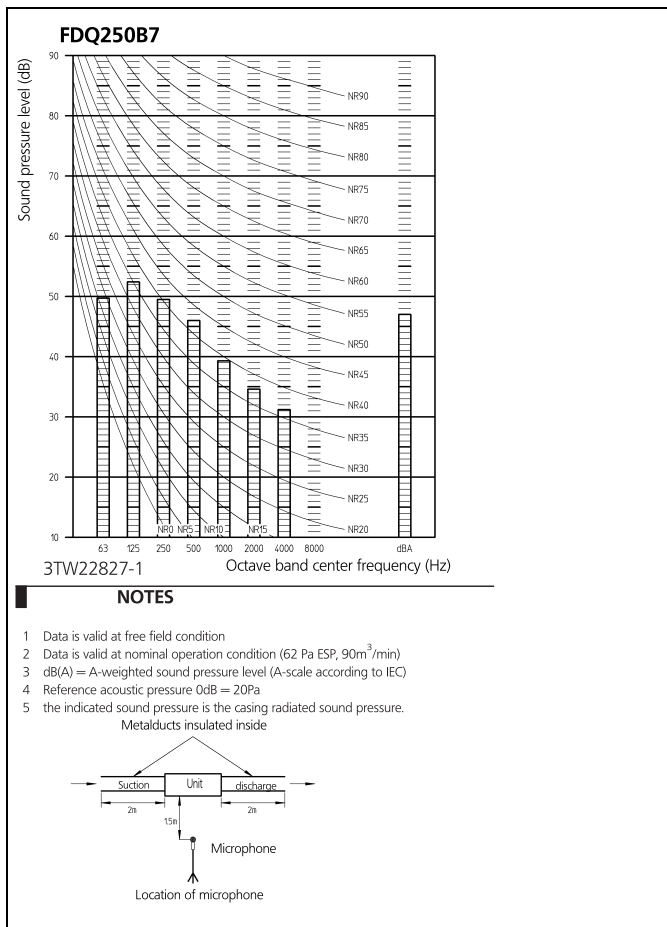
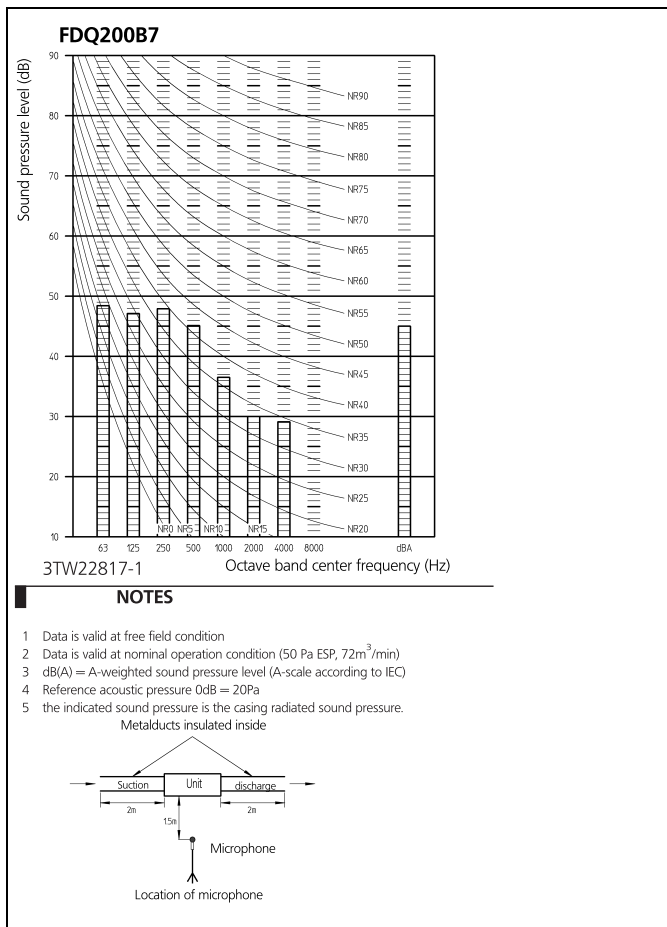
## 7 - 1 Sound Power Spectrum



# 7 Sound data

## 7 - 2 Sound Pressure Spectrum

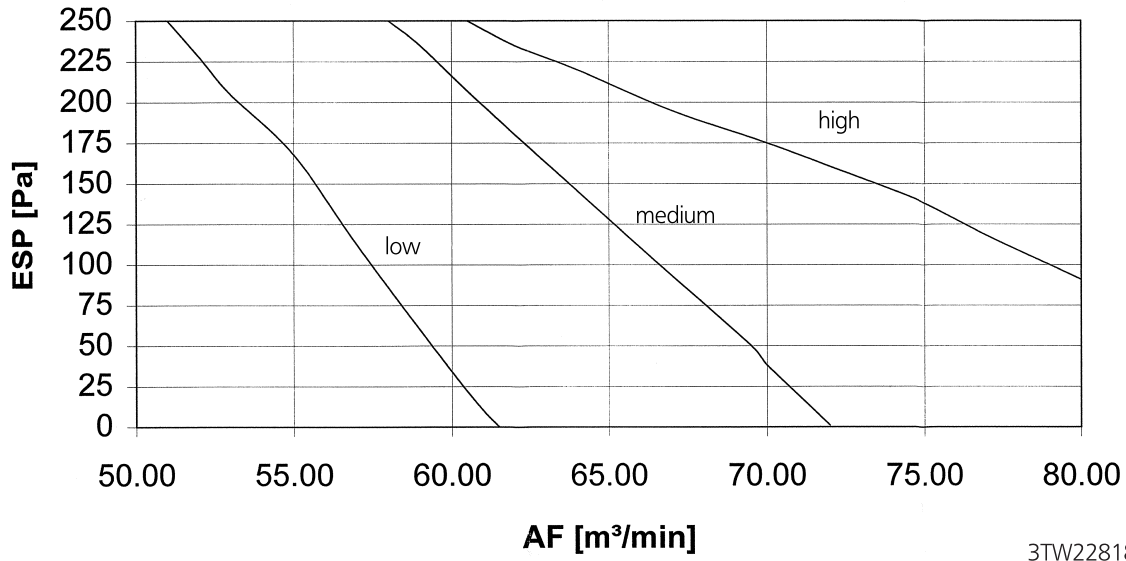
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# 8 Fan characteristics

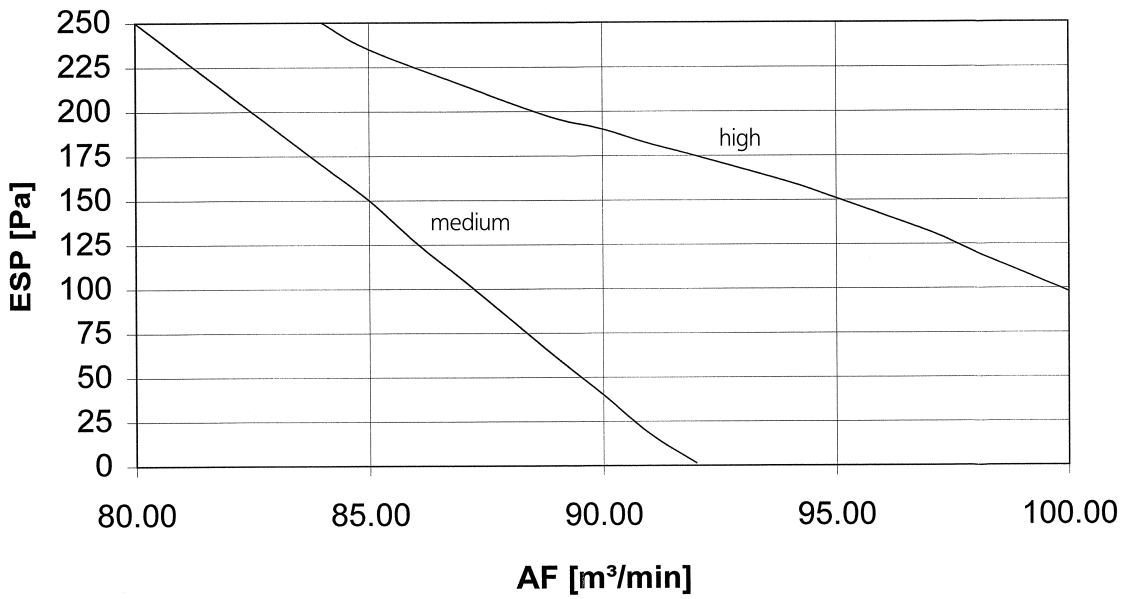
## 8 - 1 Fan Characteristics

Fan curve FDQ200B7



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Fan curve FDQ250B7

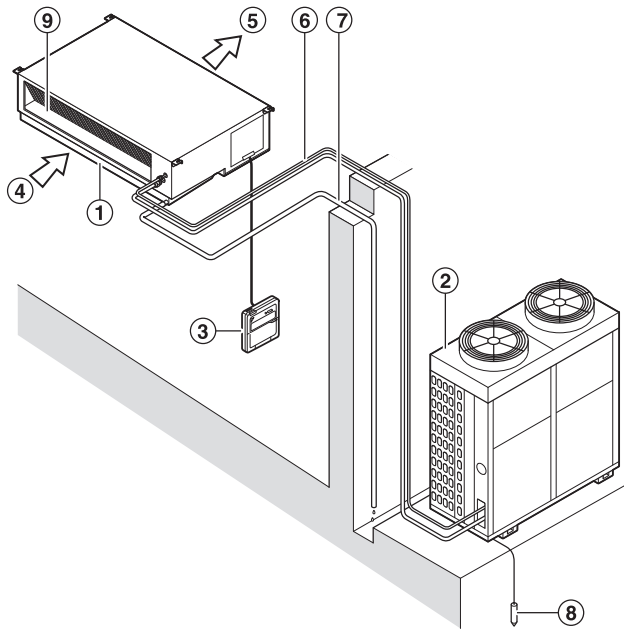


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## 9 Installation

### 9 - 1 Installation Method

9



Number	Description
1	Indoor unit
2	Outdoor unit
3	Remote control
4	Inlet air
5	Discharged air
6	Refrigerant piping, connection electric wire
7	Drain pipe
8	Ground wire Wire to ground from the outdoor unit to prevent electrical shocks.
9	Air filter



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