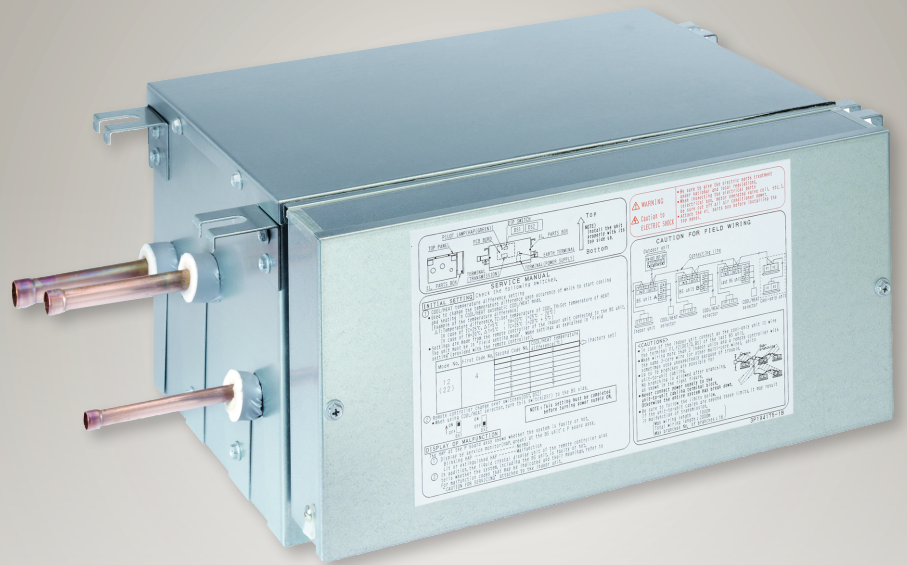


Air Conditioners

# Technical Data



Individual branch selector for VRV heat recovery



EEDEN13-200\_4

Air Conditioners

# Technical Data

# VRV

Individual branch selector for VRV heat recovery



EEDEN13-200\_4

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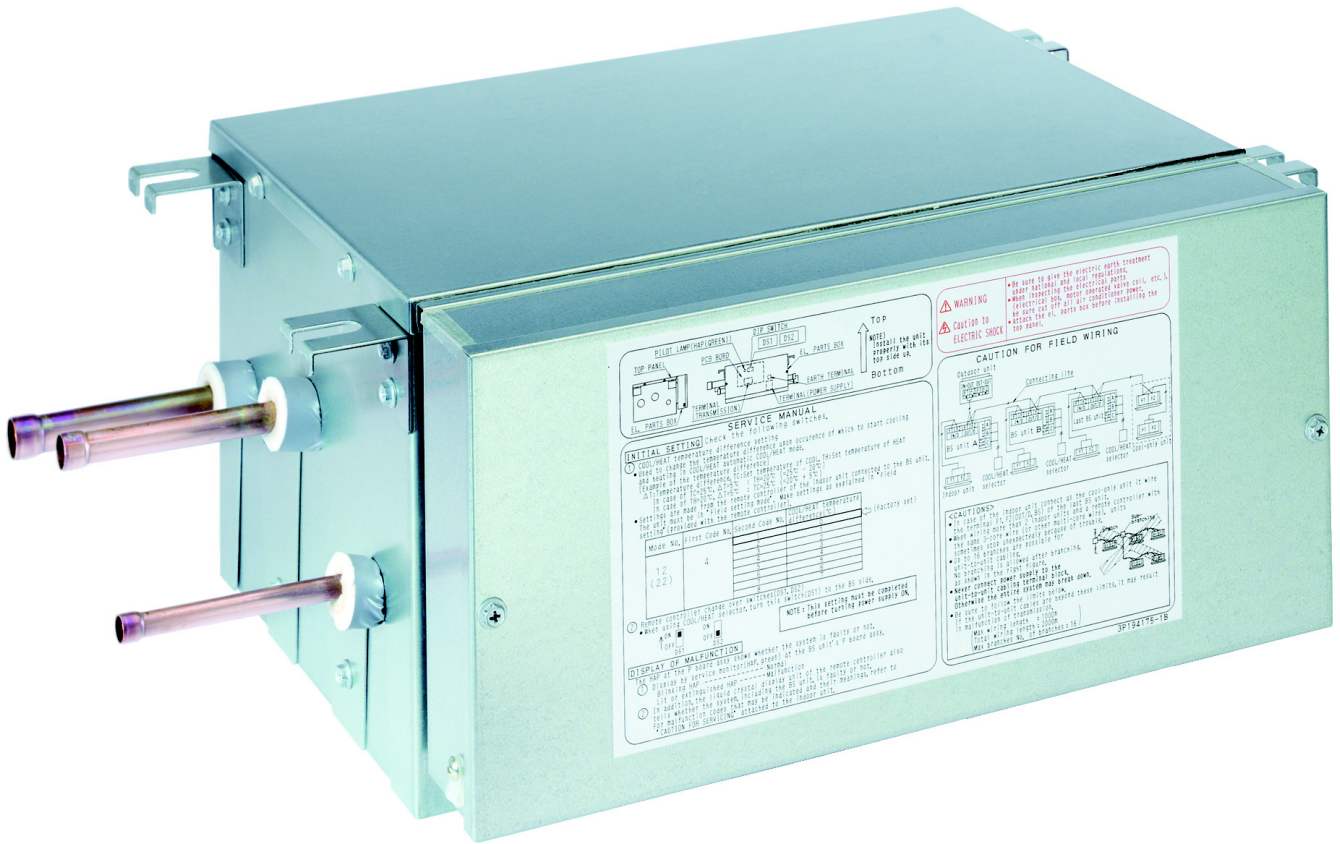
## BSVQ-P8

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# 1 Features

- Allows individual cool / heat switching of 1 group of indoor units
- Maximum design flexibility because individual and multi boxes can be combined in one system
- Low built-in height
- No drain piping needed
- Allows multi tenant applications (option PCB required)

1



2

## 2 Specifications

2-1 Technical Specifications				BSVQ100P8	BSVQ160P8	BSVQ250P8
Power input	Cooling	Nom.	kW	0.005		
	Heating	Nom.	kW	0.005		
Maximum capacity index of connectable indoor units				15 <math>x \le 100</math>	100 <math>x \le 160</math>	160 <math>x \le 250</math>
Casing	Material			Galvanised steel plate		Galvanised steel
Dimensions	Unit	Height x Width x Depth		207 x 388 x 326		
Weight	Unit			12	15	
Piping connections	Outdoor unit	Liquid	Type		Braze connection	
			OD	mm	9.5	
		Gas	Type		Braze connection	
			OD	mm	15.9	15.9 (1)
	Discharge gas	Type		Braze connection		
		OD	mm	12.7	12.7 (1)	19.1
	Indoor unit	Liquid	Type		Braze connection	
			OD	mm	9.5 (1)	9.5
Gas		Type		Braze connection		
		OD	mm	15.9 (1)		22.2
Sound absorbing thermal insulation				Foamed polyurethane, frame resisting needle felt		

Standard Accessories : Attached piping;

Standard Accessories : Clamps;

Standard Accessories : Insulation pipe cover;

Standard Accessories : Installation manual;

2-2 Electrical Specifications				BSVQ100P8	BSVQ160P8	BSVQ250P8
Power supply	Phase			1~		
	Frequency			50		
	Voltage			220-240		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Total circuit	Minimum circuit amps (MCA)		A			
	Maximum fuse amps (MFA)		A			
Notes				Instead of a fuse, use a circuit breaker		

### Notes

(1) In case of connection with a 20~50 type indoor unit, match to the size of the field pipe using the attached pipe. Connection between the attached pipe and the field pipe must be brazed.

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

(3) Maximum allowable voltage range variation between phases is 2%.

(4) MCA/MFA:  $MCA = 1.25 \times FLA$

(5)  $MFA \leq 4 \times FLA$

(6) Next lower standard fuse rating minimum 15A

(7) Select wire size based on the value of MCA

(8) Instead of a fuse, use a circuit breaker

(9) In case of connecting with indoor unit capacity index between 150 and 160, match to the size of the field pipe using the attached pipe. Connection between the attached pipe and the field pipe must be brazed.

(10) In case of connecting with a 200 type indoor unit or capacity index more than 160 and less than 200, match to the size of the field pipe using the attached pipe. Connection between the attached pipe and the field pipe must be brazed.

### 3 Safety device settings

#### 3 - 1 Safety Device Settings

3

BSVQ-P8	
Model	Safety devices
	PC board fuse
BSVQ100PV1	250V 3.15A
BSVQ160PV1	250V 3.15A
BSVQ250PV1	250V 3.15A
BSVQ36PVJU	250V 3.15A
BSVQ60PVJU	250V 3.15A
BSVQ96PVJU	250V 3.15A

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# 4 Options

## 4 - 1 Options

### BSVQ-P8

#### OPTION LIST

No	Item	BSVQ100P	BSVQ160P	BSVQ250P
1	PCB for multi tenant	DTA114A61		
2	Sound reduction for BSVQ box	EKBSVQLNP (see note 2)		

4TW31159-1A

#### NOTE

- 1 All options are kits.
- 2 Only available for standard BSVQ boxes (not possible for central BSV4Q).  
Allows to reduce operating sound of BSVQ-box (requires 1 sound kit per BSVQ-box).

# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings

5

**BSVQ100P8**

(160)  
(117)  
428 (Suspension bolt pitch)  
219 (Suspension bolt pitch)  
300 (Servicing space)  
Inspection door □450 (Note 2)

250 or more (Servicing space) 65 or more (Servicing space) 250 or more (Servicing space)  
Servicing space  
(In case of use attached pipe) 300 or more (Servicing space)

Nr	Name	Description
1	Suction gas pipe connection port	ø15.9mm brazing connection
2	HP/LP gas pipe connection port	ø12.7mm brazing connection
3	Liquid pipe connection port	ø9.5mm brazing connection
4	Gas pipe connection port	ø15.9mm brazing connection
5	Liquid pipe connection port	ø9.5mm brazing connection
6	Electric box (note 1.)	
7	Suspension brackets	M8 ~M10
8	Grounding terminal	M4
9	Attached pipe (1) (Note. 3)	ø12.7mm brazing connection
10	Attached pipe (2) (Note. 3)	ø6.4mm brazing connection

Location of unit's name plate --- right side of electric box

**NOTES**

- Electric box can also be fixed on the other side of the unit.
- Be sure to install an inspection door at electric box side.
- Attached pipe is only used in case of connecting with a 20~50 class indoor unit.
- Small sound of refrigerant will be made, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

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**BSVQ160P8**

(219)  
(217)  
428 (Suspension bolt pitch)  
219 (Suspension bolt pitch)  
300 (Suspension bolt pitch)  
Inspection door □450 (Note 2)

250 or more (Servicing space) 65 or more (Servicing space) 250 or more (Servicing space)  
Servicing space  
(In case of use Attached pipe) 350 or more (Servicing space) 350 or more (Servicing space)

Nr	Name	Description
1	Suction gas pipe connection port	ø15.9mm brazing connection
2	HP/LP gas pipe connection port	ø12.7mm brazing connection
3	Liquid pipe connection port	ø9.5mm brazing connection
4	Gas pipe connection port	ø15.9mm brazing connection
5	Liquid pipe connection port	ø9.5mm brazing connection
6	Electric box (note 1.)	
7	Suspension brackets	M8 ~M10
8	Grounding terminal	M4
9	Attached pipe (1) (Note. 3)	ø19.1mm brazing connection
10	Attached pipe (2) (Note. 3)	ø15.9mm brazing connection

Location of unit's name plate --- right side of electric box

**NOTES**

- Electric box can also be fixed on the other side of the unit.
- Be sure to install an inspection door at electric box side.
- Attached pipe is only used in case of connecting with indoor unit capacity index 150 or more and 160 or less.
- Small sound of refrigerant will be made, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

3D058004A

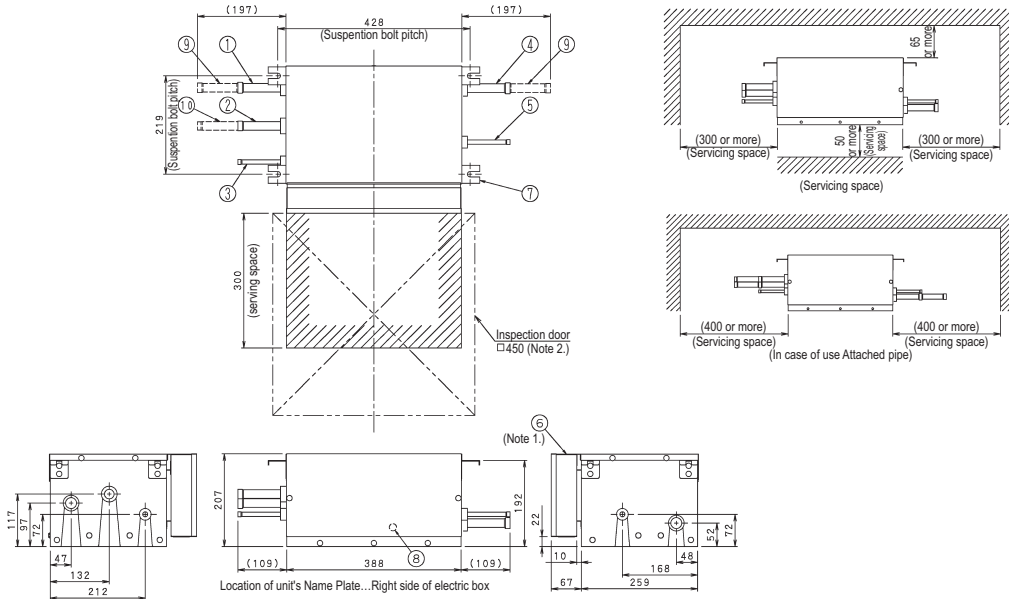
6



# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings

BSVQ250P8



3D056012B

No.	Part name	Description
1	Suction gas pipe connection port	ø 22.2 mm brazing connection
2	HP/LP gas pipe connection port	ø 19.1 mm brazing connection
3	Liquid pipe connection port	ø 9.5 mm brazing connection
4	Gas pipe connection port	ø 22.2 mm brazing connection
5	Liquid pipe connection port	ø 9.5 mm brazing connection
6	Electric box (Note 1.)	
7	Suspention brackets	M8-M10
8	Grounding terminal	M4
9	Attached pipe (1) (Note 3.)	ø 19.1 mm brazing connection
10	Attached pipe (2) (Note 3.)	ø 15.9 mm brazing connection

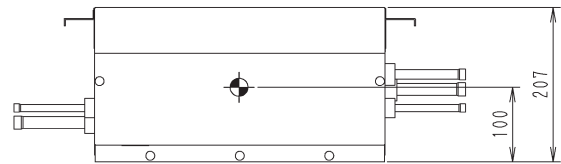
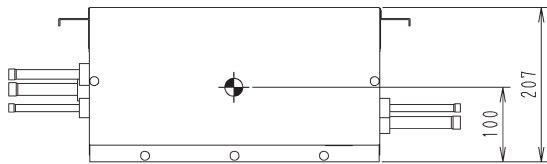
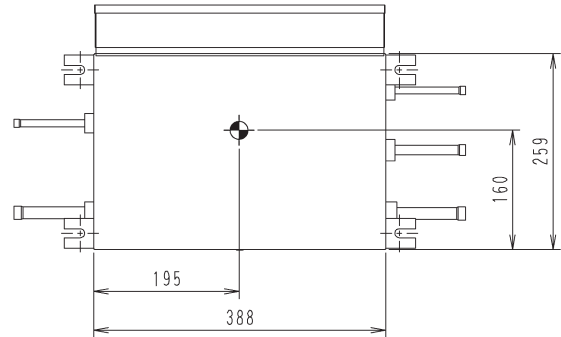
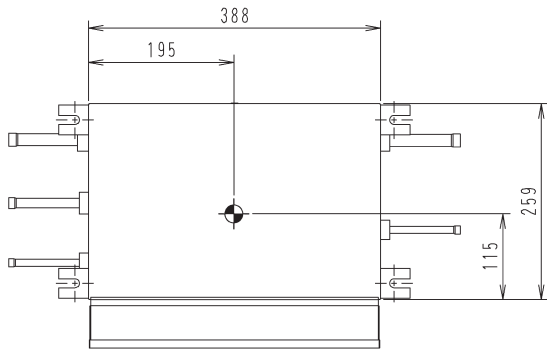
### NOTES

1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install an inspection door at electric box side.
3. Attached pipe (1) and Attached pipe (2) is used in case of connection with indoor capacity index more than 160 and less than 200.  
In case of connecting one indoor unit of 200 type, only gas pipe connection port need Attached pipe (1).
4. Small sound will be made when changing over the motor operated valve, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

## 6 Centre of gravity

### 6 - 1 Centre of Gravity

BSVQ100,160P8

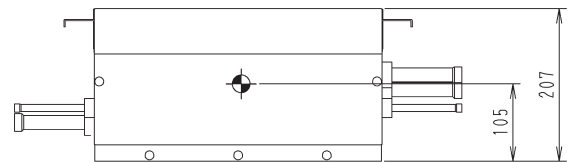
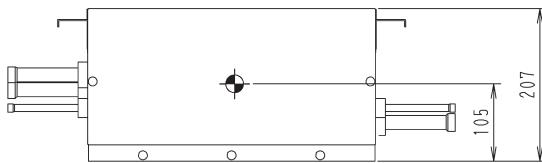
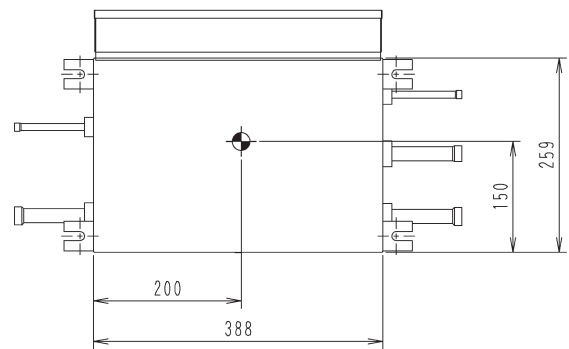
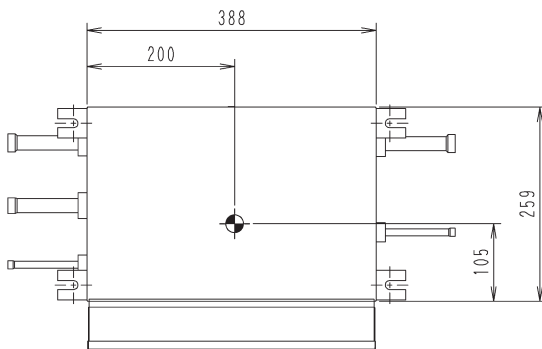


In case of the electrical box on the standard side of the unit

In case of the electrical box on the other side of the unit

3D058131A

BSVQ250P8



In case of the electrical box on the standard side of the unit

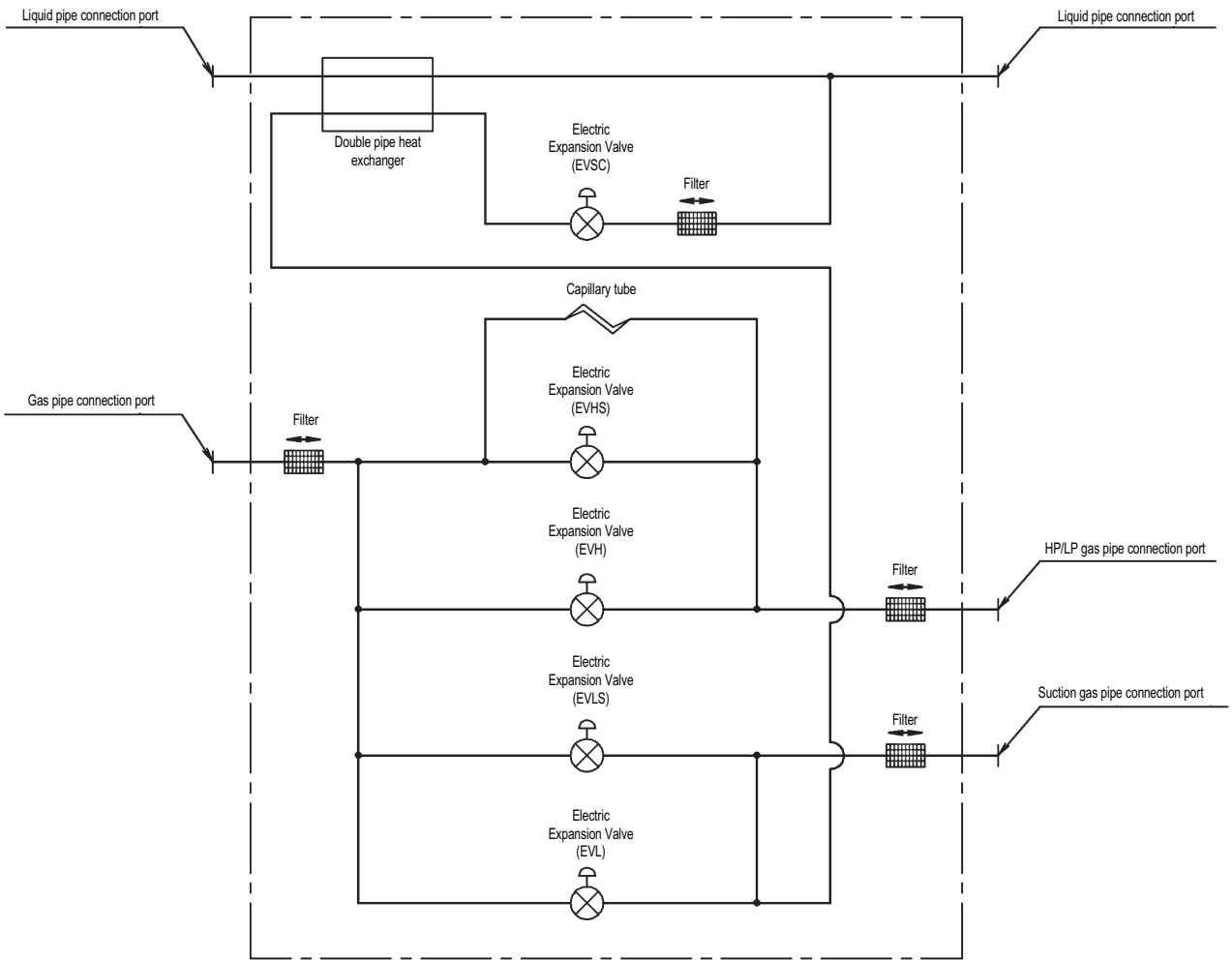
In case of the electrical box on the other side of the unit

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# 7 Piping diagrams

## 7 - 1 Piping Diagrams

BSVQ-P8



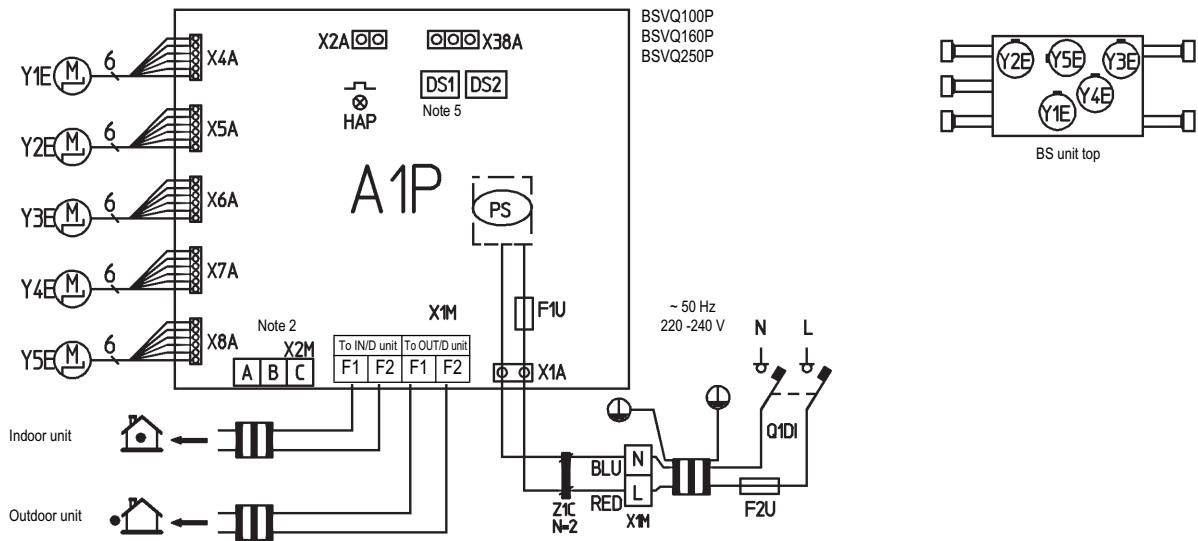
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# 8 Wiring diagrams

## 8 - 1 Wiring Diagrams - Single Phase

8

BSVQ-P8B



A1P	Printed circuit board	X1M	Terminal strip (power)	Y5E	Electronical expansion valve (main suction)
DS1, DS2	Dip switch	X1M (A1P)	Terminal strip (control)	Z1C	Noise filter (ferrite core)
F1U	Fuse (T, 3.15A, 250V)	X2M	Terminal strip (C/H selector)		
F2U	Field fuse	Y1E	Electronical expansion valve (sub cool)	Connector for optional parts	
HAP	Light emitting diode (service monitor green)	Y2E	Electronical expansion valve (sub discharge)	X2A	Connector (wiring external control adapter for outdoor)
PS	Switching power supply	Y3E	Electronical expansion valve (sub suction)	X38A	Connector (adapter for multi tenant)
Q1DI	Earth leak detector	Y4E	Electronical expansion valve (main discharge)		

- : Terminal strip
- : Connector
- : Terminal
- : Field wiring
- : Protective earth (screw)
- L : Live
- N : Neutral
- Colors: BLU Blue, RED Red

3TW31796-1

### NOTES

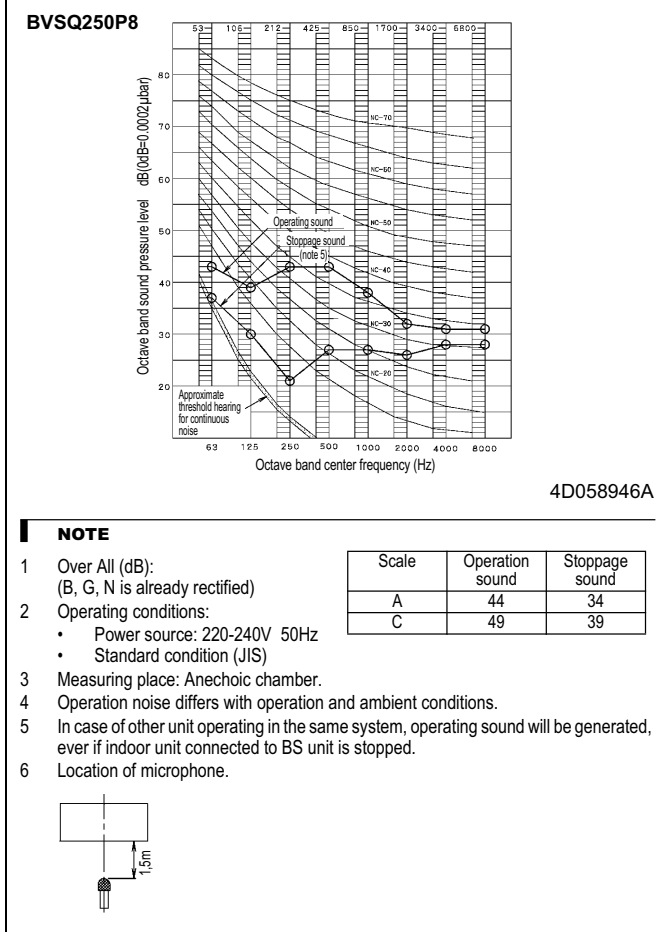
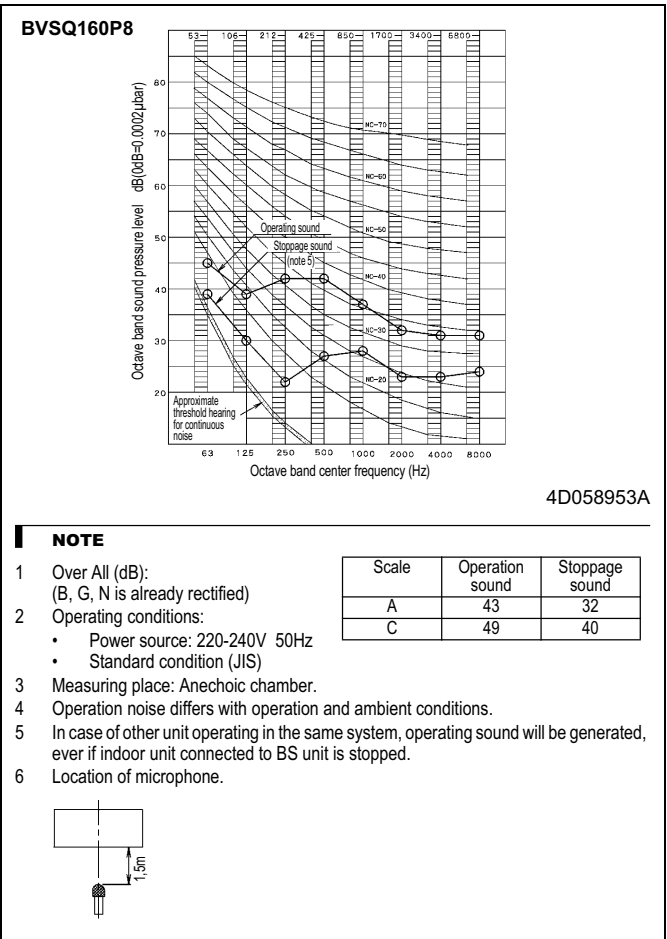
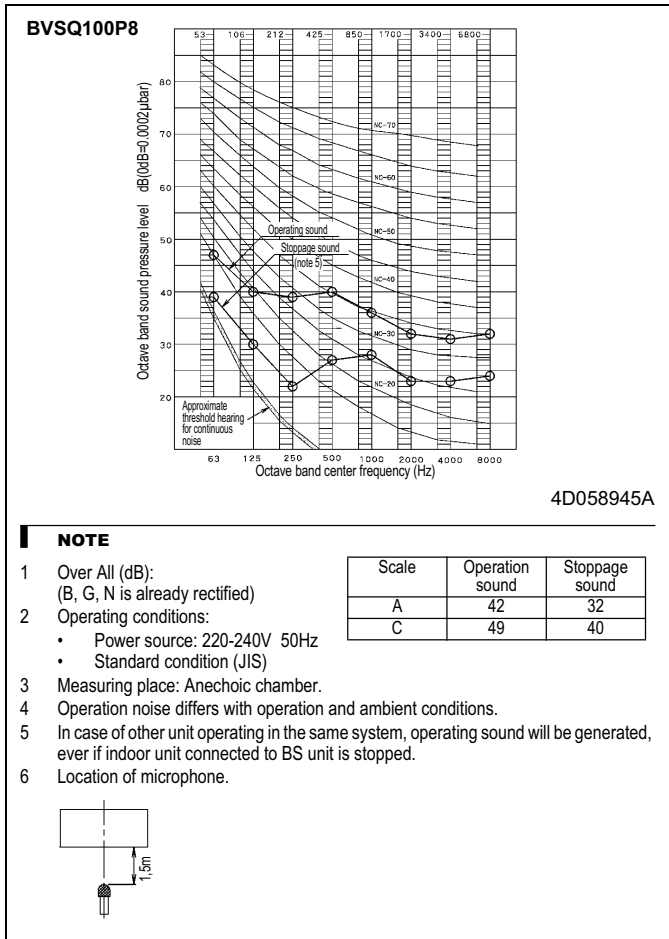
- This wiring diagram applies to the BS unit only.
- When using the COOL/HEAT selector (optional accessory), connect it to terminals A, B and C on X2M.
- As for wiring to the IN/D unit (F1) - (F2) and OUT/D unit (F1)-(F2) on X1M (A1P), refer to the installation manual.
- Use copper conductors only.
- Dip switch (DS1-2) initial settings are as follows.



For using dip switch (DS1-2), refer to the installation manual or to the 'service label' on de el.compo.box cover.

# 9 Sound data

## 9 - 1 Sound Pressure Spectrum







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