

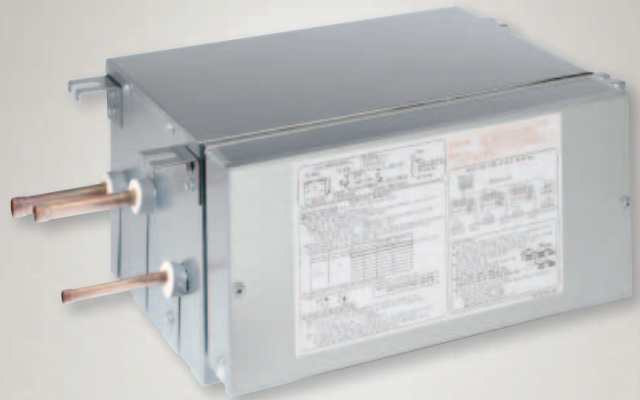


Air Conditioners

Technical Data

VRV[®]

Individual branch selector for VRV[®] heat recovery (Individual BS box)



EEDEN10-200

BSVQ100-250P8



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Individual branch selector for VRV® heat recovery (Individual BS box)



EEDEN10-200

BSVQ100-250P8

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1 Specifications

1-1 Technical Specifications				BSVQ100P8V1B	BSVQ160P8V1B	BSVQ250P8V1B
Power input (nominal)	Cooling	kW	0.005	0.005	0.005	
	Heating	kW	0.005	0.005	0.005	
Max. number of connectable units			5	8	8	
Total capacity index of connectable indoor unit			20 < x ≤ 100	100 < x ≤ 160	160 < x ≤ 250	
Casing	Material		Galvanised steel			
Dimensions	Unit	Height	mm	207	207	207
		Width	mm	388	388	388
		Depth	mm	326	326	326
Weight	Unit	kg	14.0	14.0	15.0	
Outdoor Unit	Liquid (OD)	Type	Braze connection			
		Diameter	mm	9.5	9.5	9.5
	Gas	Type	Braze connection			
		Diameter	mm	15.9	15.9	22.2
	Discharge Gas	Type	Braze connection			
		Diameter	mm	12.7	12.7	19.1
Indoor Units	Liquid (OD)	Type	Braze connection			
		Diameter	mm	9.5	9.5	9.5
	Gas	Type	Braze connection			
		Diameter	mm	15.9	15.9	22.2
Sound absorbing thermal insulation material			Foamed polyurethane, Frame resisting needle felt			
Standard Accessories	Item	Installation manual				
		Attached piping				
		Insulation pipe cover				
		Clamps				
Notes			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.	In case of connecting with indoor unit capacity index 150 or more and 160 or less, match to the size of the field pipe using the attached pipe. Connection between the attached pipe and the field pipe must be brazed.	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.	

1-2 Electrical Specifications				BSVQ100P8V1B	BSVQ160P8V1B	BSVQ250P8V1B
Power Supply	Phase		1~			
	Frequency	Hz	50	50	50	
	Voltage	V	220-240			
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Total circuit	Minimum circuit amps (MCA)	A	0.1	0.1	0.1	
	Maximum Fuse Amps	A	15	15	15	
Notes			Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits			
			Maximum allowable voltage range variation between phases is 2%			
			MCA / MFA : MCA = 1.25 x FLA			
			MFA is smaller than or equal to 4 x FLA			
			Next lower standard fuse rating minimum 15A			
			Select wire size based on MCA			
			Instead of a fuse, use a circuit breaker			

2 Safety device settings

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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3 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).

4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

BSVQ250PV1

(Suspension bolt pitch)

(Suspension bolt pitch)

(Servicing space)

300 or more (Servicing space)

60 or more (Servicing space)

65 or more (Servicing space)

300 or more (Servicing space)

400 or more (Servicing space)

400 or more (Servicing space)

Inspection door (Note 2.)

(In case of use Attached pipe)

(Note 1.)

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

Nr	Name	Description
1	Suction gas pipe connection port	ø22.2mm brazing connection
2	HP/LP gas pipe connection port	ø19.1mm brazing connection
3	Liquid pipe connection port	ø9.5mm brazing connection
4	Gas pipe connection port	ø22.2mm 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

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 connecting 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.

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BSVQ160PV1

(Suspension bolt pitch)

(Suspension bolt pitch)

(Suspension bolt pitch)

250 or more (Servicing space)

60 or more (Servicing space)

65 or more (Servicing space)

250 or more (Servicing space)

350 or more (Servicing space)

350 or more (Servicing space)

Inspection door (Note 2.)

(In case of use Attached pipe)

(Note 1.)

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

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

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 is only used in case of connecting with indoor unit capacity index 150 or more and 160 or less.
- 4 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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4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

BSVQ100PV1

(Suspension bolt pitch)

(Suspension bolt pitch)

(Servicing space)

(Servicing space)

Inspection door (Note 2)

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

250 or more (Servicing space)

65 or more (Servicing space)

250 or more (Servicing space)

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

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

NOTES

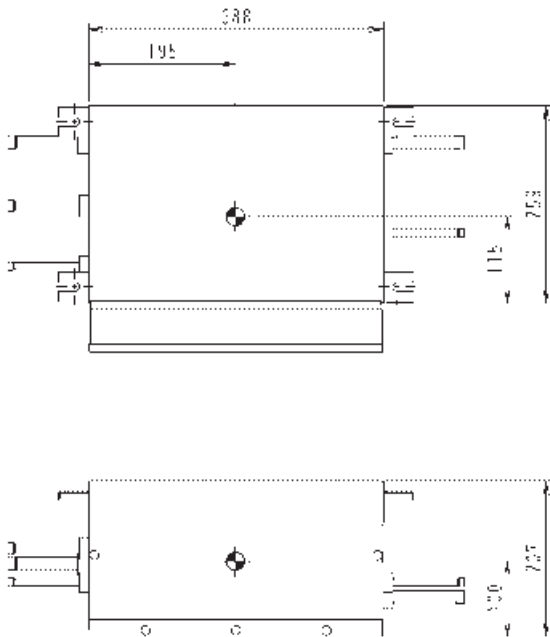
- Electric box can also be fixed on the other side of the unit.
- Be sure to install an inspection door at electric box side.
- Attached pipe is only used in case of connecting with a 20-50 class indoor unit.
- Small sound of refrigerant will be made, which may be disturbing.
Do not install it at the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

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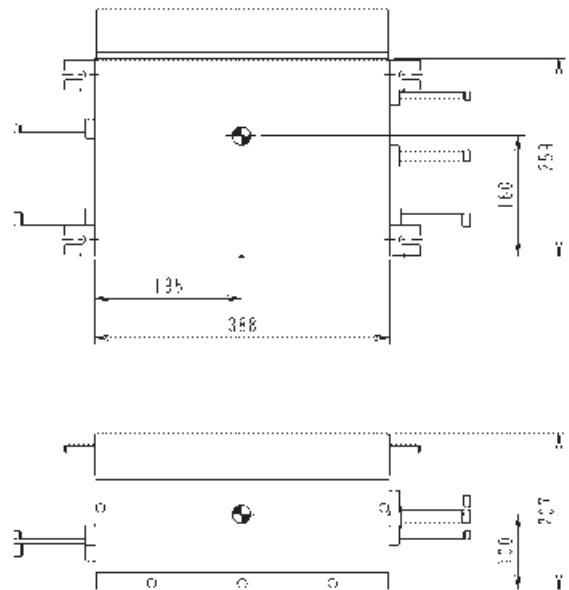
4 Dimensional drawing & centre of gravity

4 - 2 Centre of gravity

BSVQ100,160PV1



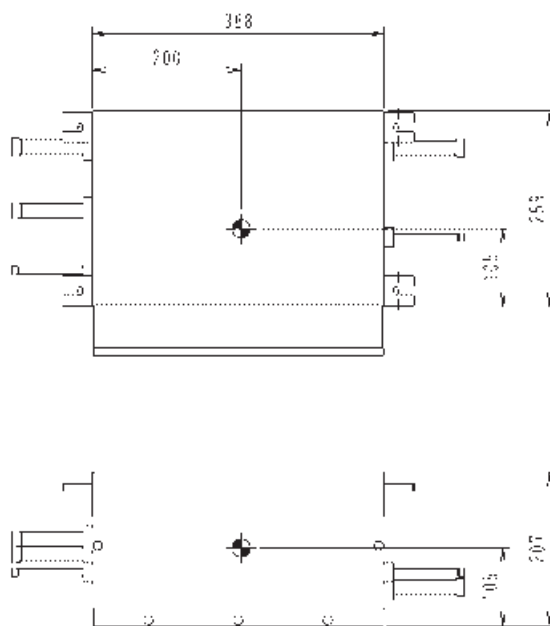
In case of the electrical box on the standard side of the unit



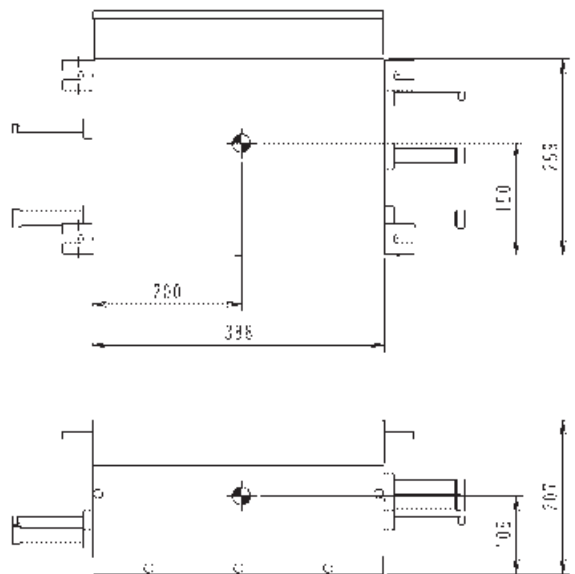
In case of the electrical box on the other side of the unit

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BSVQ250PV1



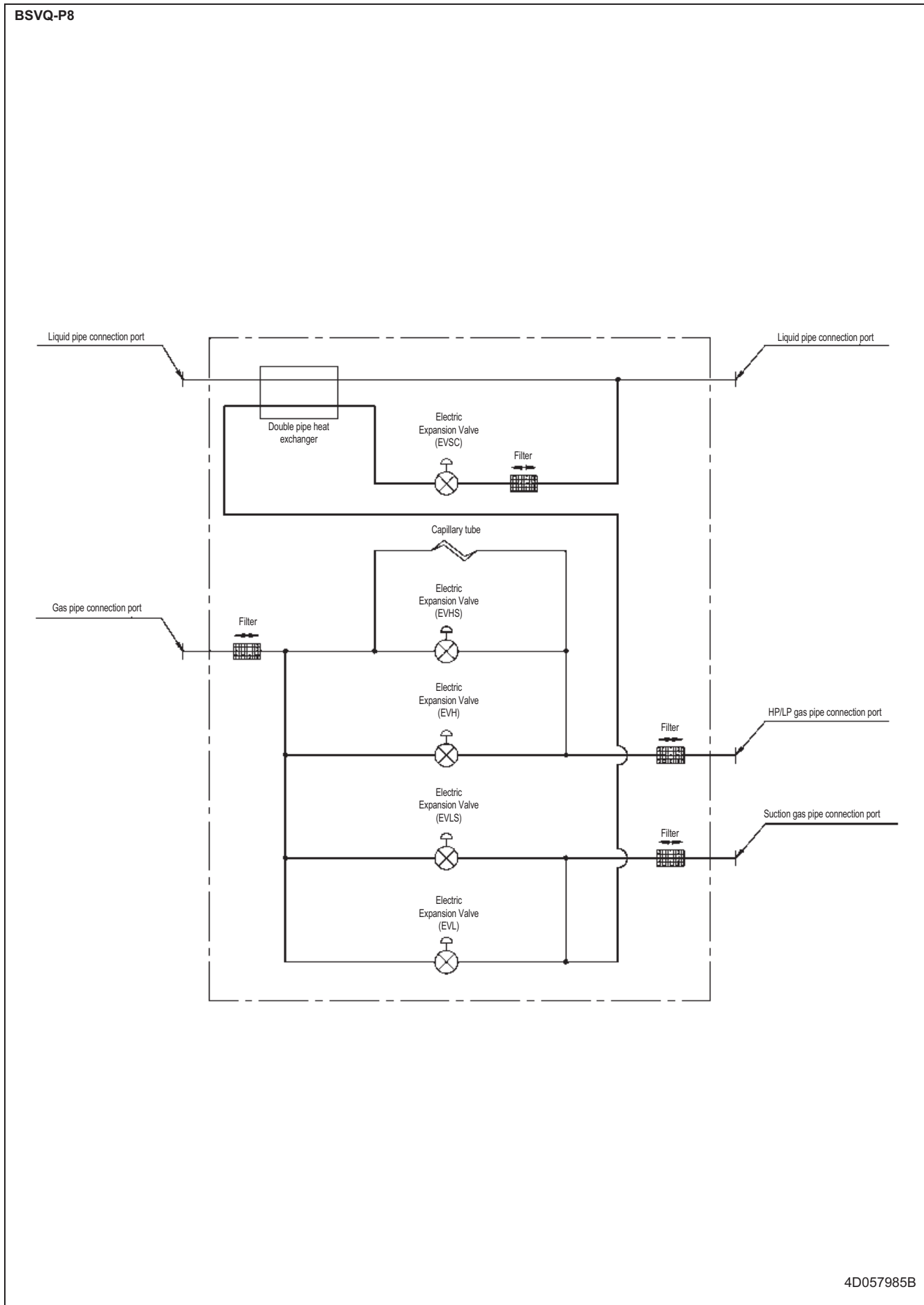
In case of the electrical box on the standard side of the unit



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

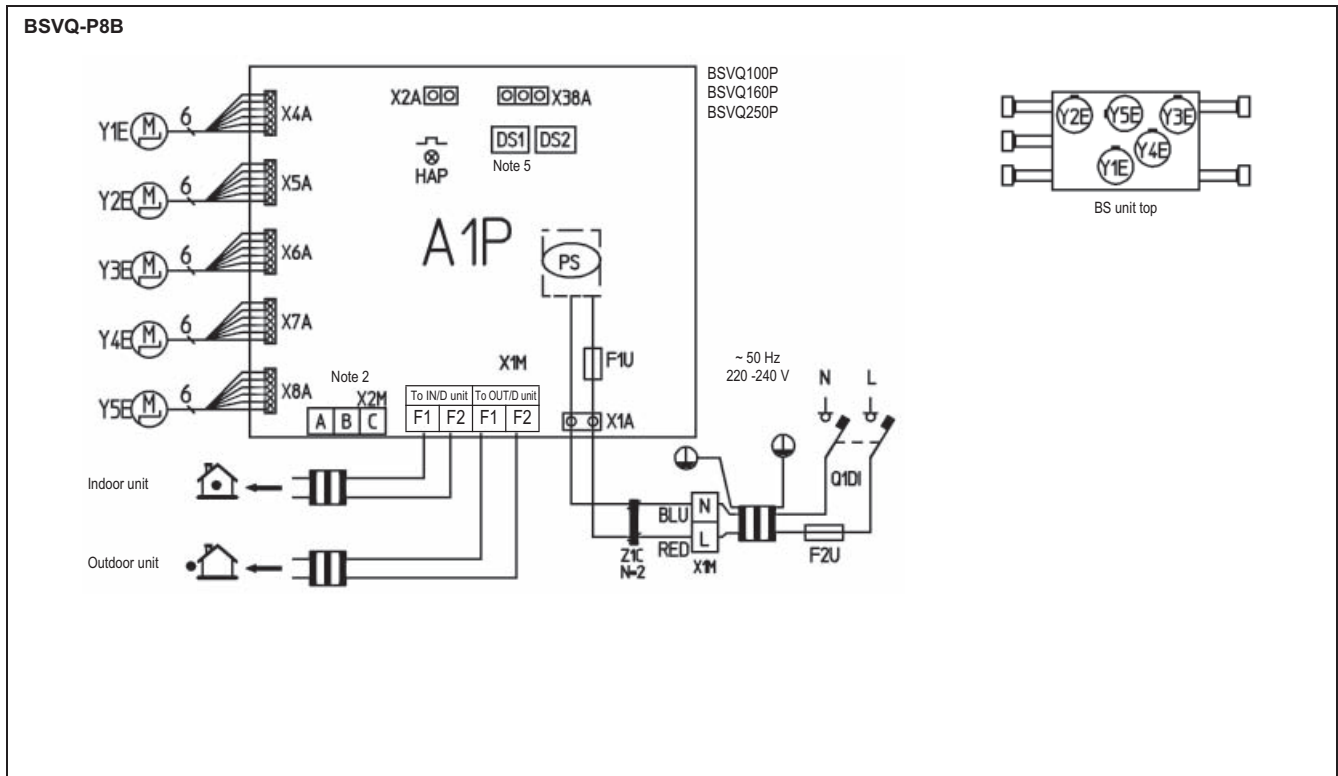
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5 Piping diagram



6 Wiring diagram

6 - 1 Wiring diagram



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

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NOTES

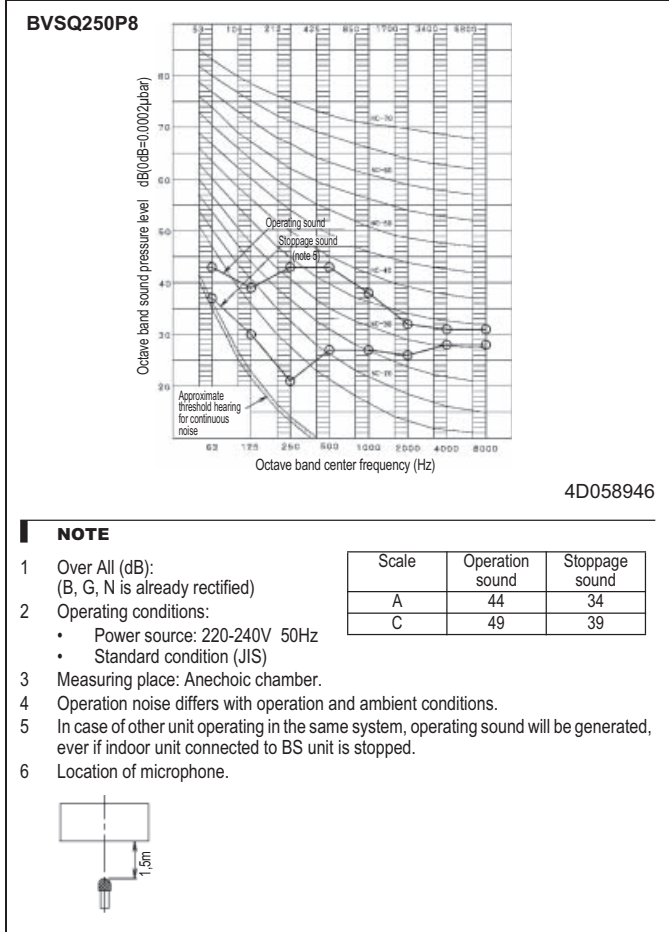
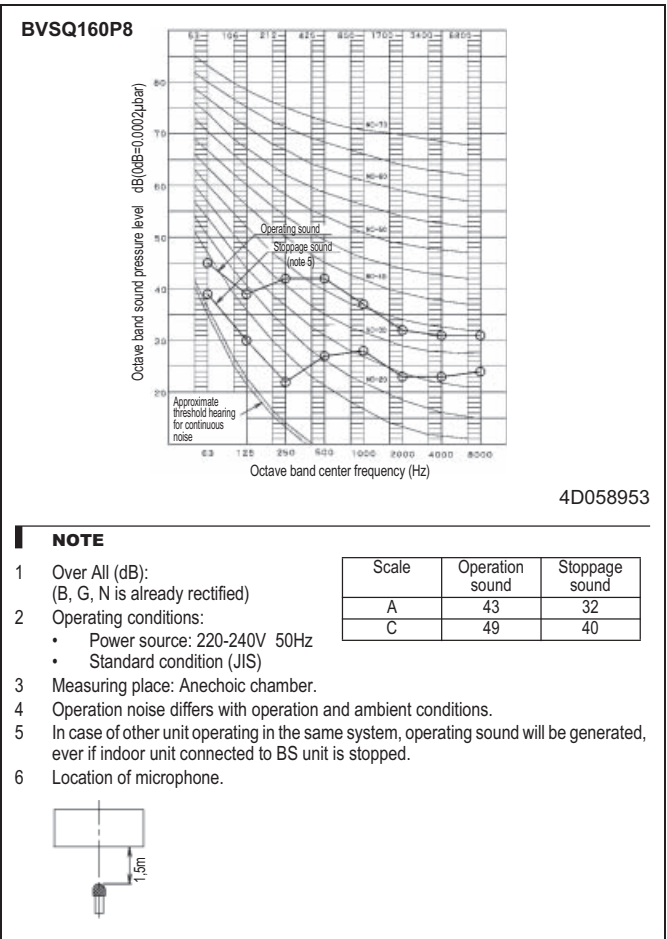
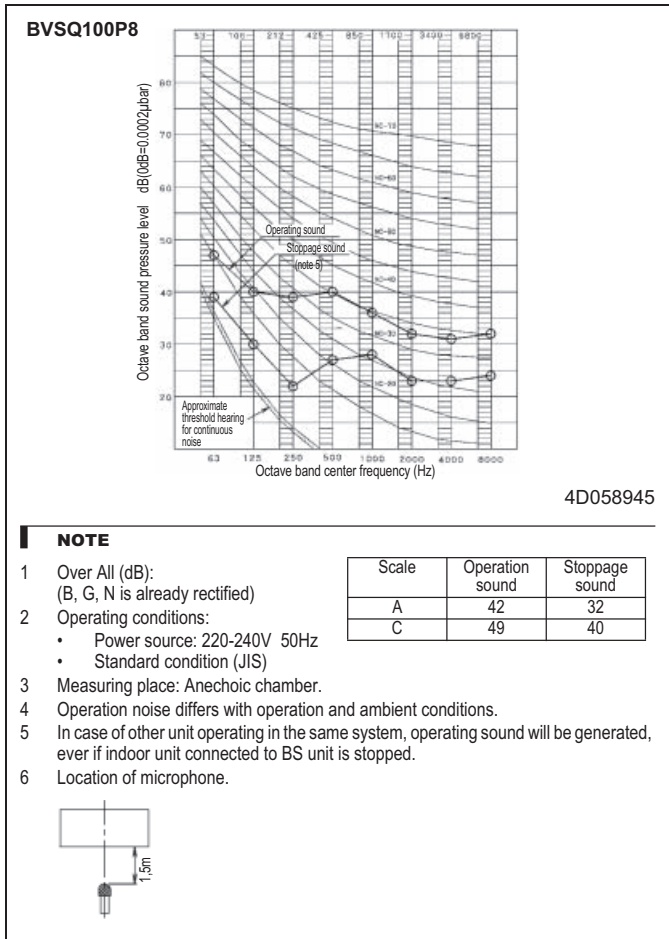
- This wiring diagram applies to the BS unit only.
- When using the COOL/HEAT selector (optional accessory), connect it to terminals A, B and C on X2M.
- As for wiring to the IN/D unit (F1) - (F2) and OUT/D unit (F1)-(F2) on X1M (A1P), refer to the installation manual.
- Use copper conductors only.
-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

7 Sound data

7 - 1 Sound pressure spectrum



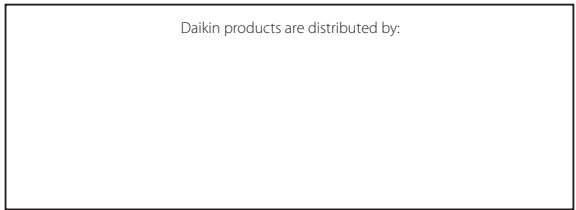


Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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