DAIKIN

Air Conditioners

Technical Data

VRV

Multi branch selector for VRV heat recovery

EEDEN13-200_4

BSV4Q-PV

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BSV4Q-PV

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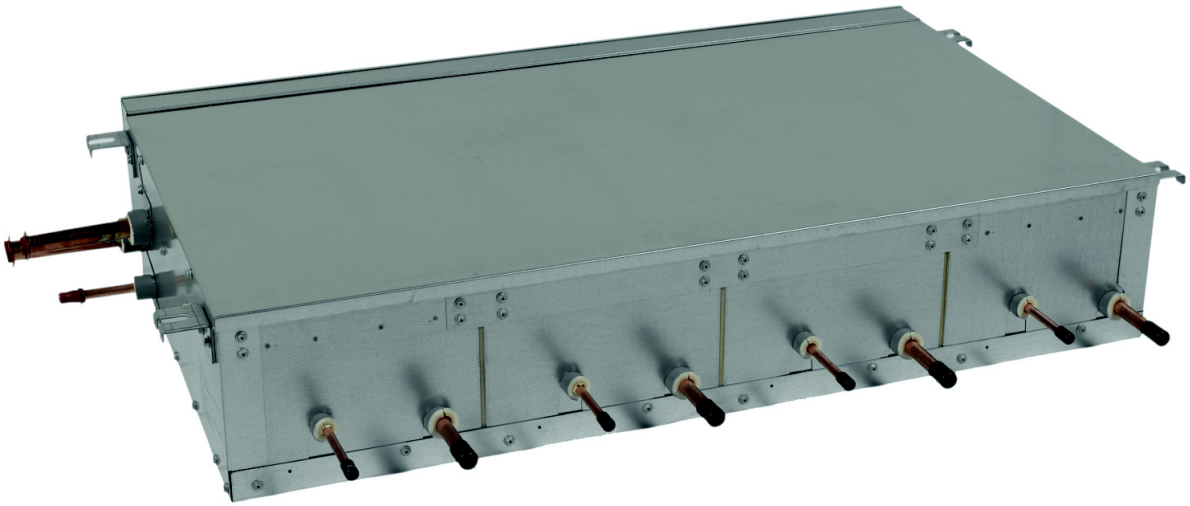
BSV4Q-PV

1 Features

- Faster installation thanks to a reduced number of brazing points and wiring
- Allows individual cool / heat switching for up to 4 groups 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



2 Specifications

2-1 Technical Specifications					BSV4Q100PV
Power input	Cooling	Nom.		kW	0.020
	Heating	Nom.		kW	0.020
Maximum number of connectable indoor units per branch					6
Number of branches					4
Maximum capacity index of connectable indoor units					400
Maximum capacity index of connectable indoor units per branch					100
Casing	Material				Galvanised steel plate
Dimensions	Unit	HeightxWidthxDepth		mm	209x1,053x635
Weight	Unit			kg	60
Piping connections	Outdoor unit	Liquid	Type		Brazing connection
			OD	mm	12.7
		Gas	Type		Brazing connection
			OD	mm	28.6
		Discharge gas	Type		Brazing connection
			OD	mm	19.1
	Indoor unit	Liquid	Type		Brazing connection
			OD	mm	9.5
		Gas	Type		Brazing connection
			OD	mm	15.9
Sound absorbing thermal insulation					Foamed polyurethane, frame resisting needle felt

Standard Accessories : Clamps;

Standard Accessories : Insulation pipe cover;

Standard Accessories : Attached piping;

Standard Accessories : Installation manual;

2-2 Electrical Specifications				BSV4Q100PV
Power supply	Name			V1
	Phase			1~
	Frequency		Hz	50
	Voltage		V	220-240
	Voltage range	Min.	%	-10
		Max.	%	10
Total circuit	Minimum circuit amps (MCA)		A	0.5
	Maximum fuse amps (MFA)		A	15
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) In case the joint diameter does not fit on the triple piping side, a reducer is needed (field supply)

(3) Insulators are necessary (field supply) for the triple piping side

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

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

(6) MCA/MFA: MCA = 1.25 x FLA

(7) MFA ≤ 4 x FLA

(8) Next lower standard fuse rating minimum 15A

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

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

3 Safety device settings

3 - 1 Safety Device Settings

BSV4Q100PV
BSV6Q100PV

Model	Safety devices
	PC board fuse
BSV4Q100PV	250V 3.15A
BSV6Q100PV	250V 3.15A

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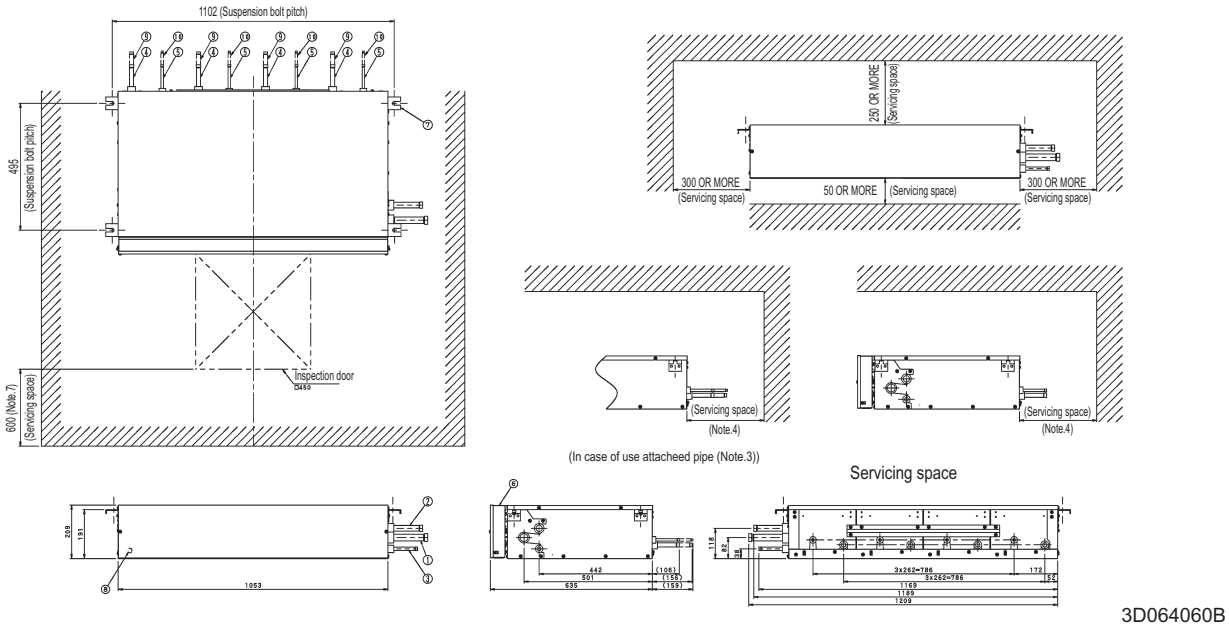
4 Dimensional drawings

4 - 1 Dimensional Drawings

BSV4Q100PV



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No.	Parts name	Description
1	Suction gas pipe connection port (Note.5,6)	ø 28.6mm brazing connection
2	HP/LP gas pipe connection port (Note.5,6)	ø 19.1mm brazing connection
3	Liquid pipe connection port (Note.5,6)	ø 12.7mm brazing connection
4	Gas pipe connection port	ø 15.9mm brazing connection
5	Liquid pipe connection port	ø 9.5mm brazing connection
6	Electric box (Note.1)	
7	Suspension brackets	M8~M10
8	Grounding terminal	M4
9	Attached pipe (1) (Note.3)	ø 12.7mm brazing connection
10	Attached pipe (2) (Note.3)	ø 6.4mm brazing connection

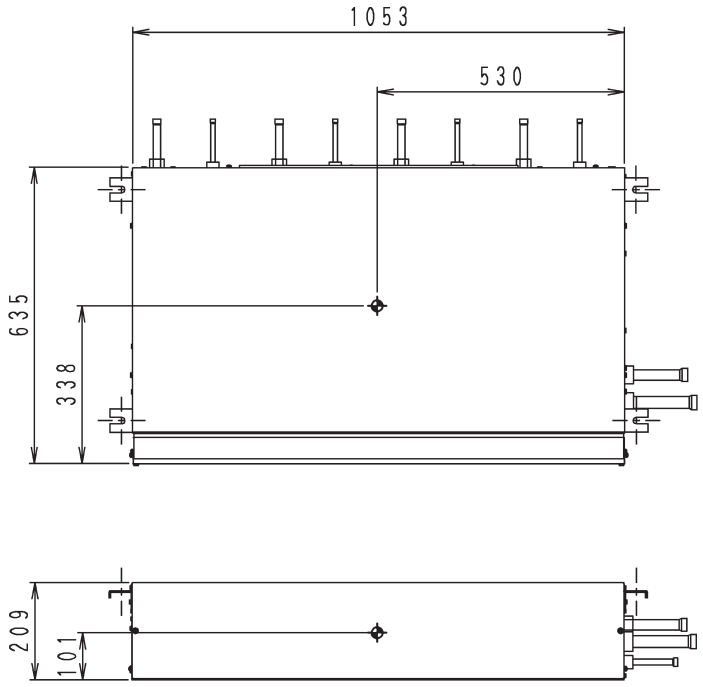
NOTES

1. Be sure to install a inspection door at electric box side. Another door is necessary to unload the product.
2. Install it at the place where small sound of refrigerant does not disturb. Must not install it at the space such as roof-space of room where person exists.
3. Attached pipe is only used in case of connecting with a 20-50 class indoor unit.
4. Occupy the space witch is possible to install field pipes.
5. Reducer may be required (field supply) if joint diameter dose not suit on the triple piping side.
6. Insulators are necessary (field supply) for the triple piping side.
7. This space is a space to keep a top panel when servicing.

5 Centre of gravity

5 - 1 Centre of Gravity

BSV4Q100PV



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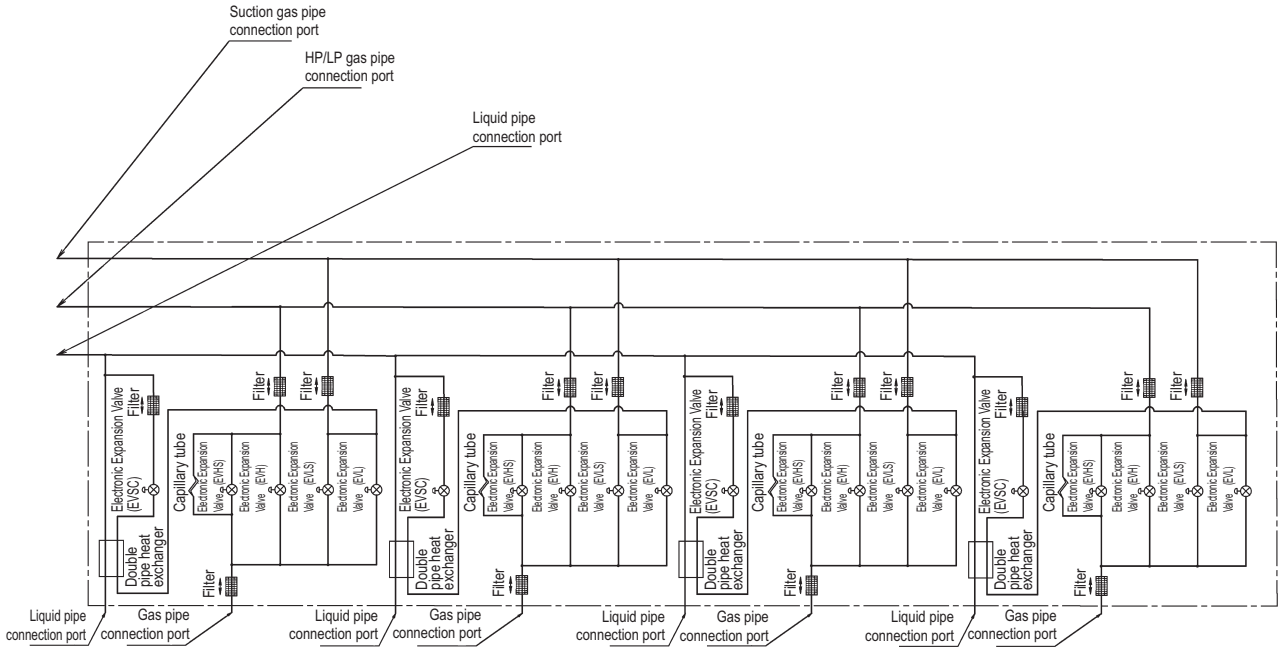
6 Piping diagrams

6 - 1 Piping Diagrams

BSV4Q100PV



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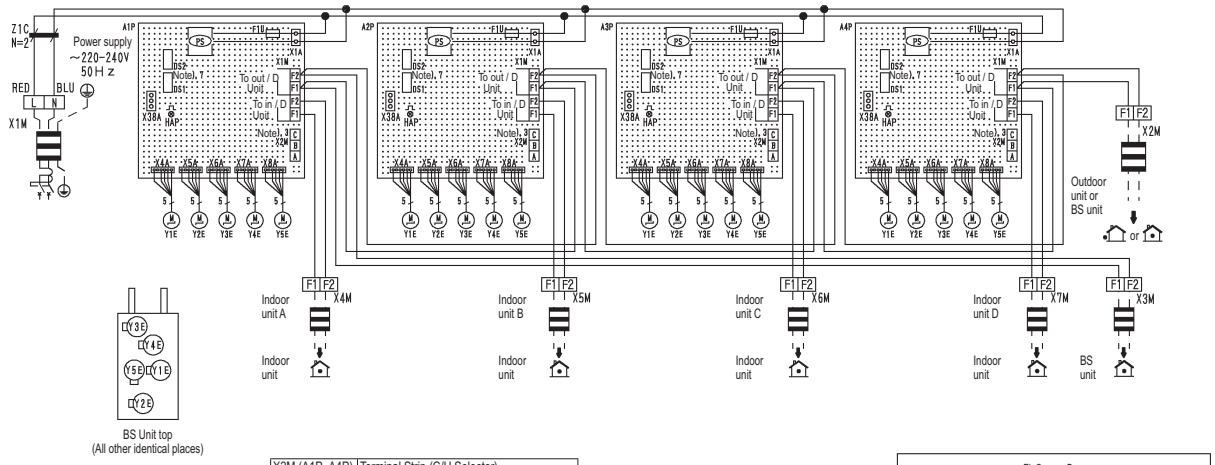
7 Wiring diagrams

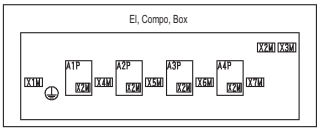
7 - 1 Wiring Diagrams - Single Phase

BSV4Q100PV



BS Unit top
(All other identical places)

A1P (Unit A)	Printed circuit board (Indoor Unit A)	X2M (A1P~A4P)	Terminal Strip (C/H Selector)
A2P (Unit B)	Printed circuit board (Indoor Unit B)	X1M	Terminal Strip (Power)
A3P (Unit C)	Printed circuit board (Indoor Unit C)	X2M~X7M	Terminal Strip (Control)
A4P (Unit D)	Printed circuit board (Indoor Unit D)	Y1E	Electric expansion valve (Sub cool)
DS1, DS2	Dip switch	Y2E	Electric expansion valve (Sub discharge)
F1U	Fuse (T, 3, 15A, 250V)	Y3E	Electric expansion valve (Sub suction)
HAP	Flashing lamp (Service monitor-green)	Y4E	Electric expansion valve (Main discharge)
		Y5E	Electric expansion valve (Main suction)
PS	Switching power supply (A1P~A4P)	Z1C	Noise filter (Ferite core)
X1M (A1P~A4P)	Terminal strip (Control)		Connector for optional parts
		X38A	Connector (adapter for multi tenant)



NOTES

1. This wiring diagram applies to the BS unit only.
2. ▬▮▮▮▬: field wiring, ☐☐☐☐: terminal strip, ⊡⊡: connector, ⏚: protective earth.
3. When using the cool/heat selector (optional accessory), connect it to terminals A, B and C on X2M(A1~A4P).
4. As for wiring to the X2M~X7M(Control), refer to installation manual.
5. Symbols show as follows, (BLU: Blue, RED: Red).
6. Use copper conductors only.
7. Dip switch (DS1● 2) initial settings are as follows,

For using DIP Switch (DS1● 2), refer to installation manual or 'service precaution' label on EL, Compo, Box cover.

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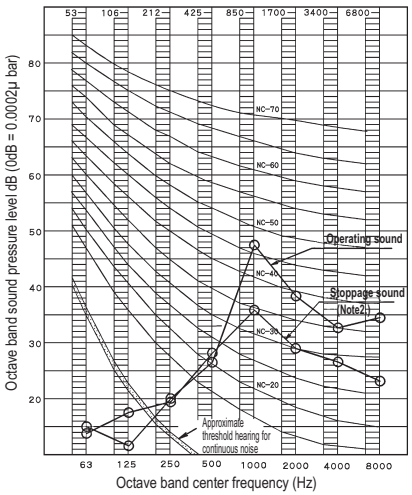
8 Sound data

8 - 1 Sound Pressure Spectrum

BSV4Q100PV



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NOTES

1. Over All (dB):
   (B,G,N is already rectified)
2. Operating conditions:
   Power source: 220-240V 50 Hz
   Standard condition (JIS)
3. Measuring place: Anechoic chamber
4. Operation noise differs with operation and ambient conditions. In case of other unit operating in the same system, operating sound will be generated, ever if indoor unit connected to BS unit is stopped.
5. Location of microphone.

Scale	Operating sound	Stoppage sound
A	48	38
C	49	44

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

Daikin products are distributed by:

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EEDEN13-200_4 • CD • 03/13 • Copyright Daikin
The present publication supersedes EEDEN12-200
Prepared in Belgium by Lannoo (www.lannooprint.be), a company whose concern for the environment is set in the EMAS and ISO 14001 systems.
Responsible Editor: Daikin Europe N.V., Zandvoordestraat 300, B-8400 Oostende