



Air Conditioners

# Technical Data



Multi branch selector for VRV® heat recovery



EEDEN12-200

BSV4Q100PV

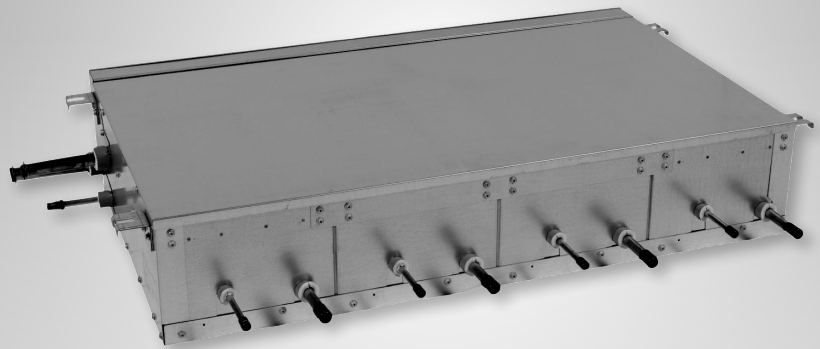


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# TABLE OF CONTENTS

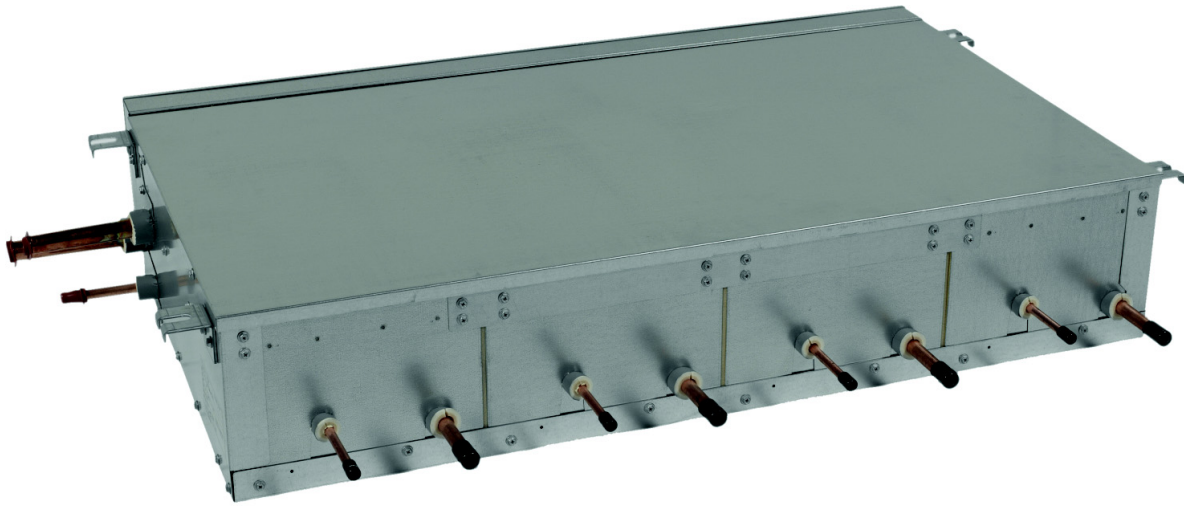
## BSV4Q100PV

1	Features .....	2
2	Specifications .....	3
	Technical Specifications .....	3
	Electrical Specifications .....	3
3	Safety device settings .....	4
	Safety Device Settings .....	4
4	Dimensional drawings .....	5
	Dimensional Drawings .....	5
5	Centre of gravity .....	6
	Centre of Gravity .....	6
6	Piping diagrams .....	7
	Piping Diagrams .....	7
7	Wiring diagrams .....	8
	Wiring Diagrams - Single Phase .....	8
8	Sound data .....	9
	Sound Pressure Spectrum .....	9

# 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

1



2

## 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				24	
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	
Piping connections	Outdoor unit	Liquid	Type	Braze connection	
			OD	mm	12.7
		Gas	Type	Braze connection	
			OD	mm	28.6
	Discharge gas	Type	Braze connection		
		OD	mm	19.1	
	Indoor unit	Liquid	Type	Braze connection	
			OD	mm	9.5
Gas		Type	Braze 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	Phase			1~	
	Voltage			V	
	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:  $MCA = 1.25 \times FLA$
- (7)  $MFA \leq 4 \times FLA$
- (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

4D064144

3

# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

**BSV4Q100PV**

1102 (Suspension bolt pitch)

405 (Suspension bolt pitch)

600 (Note 7) (Servicing space)

Inspection door

250 OR MORE (Servicing space)

300 OR MORE (Servicing space)

50 OR MORE (Servicing space)

300 OR MORE (Servicing space)

(In case of use attached pipe (Note.3))

1082

442

601

1193

1183

1192

172

1321

1322

3D064060B

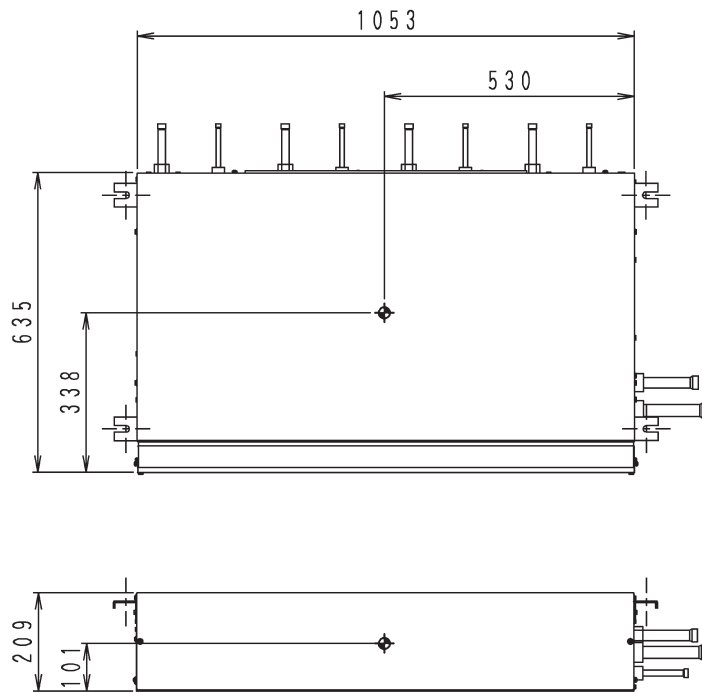
No.	Parts name	Description
1	Suction gas pipe connection port (Note.5,6)	ø 28.6mm brazing connection
2	HP/LP gas pipe connection port (Note.5,6)	ø 19.1mm brazing connection
3	Liquid pipe connection port (Note.5,6)	ø 12.7mm brazing connection
4	Gas pipe connection port	ø 15.9mm brazing connection
5	Liquid 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 with 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

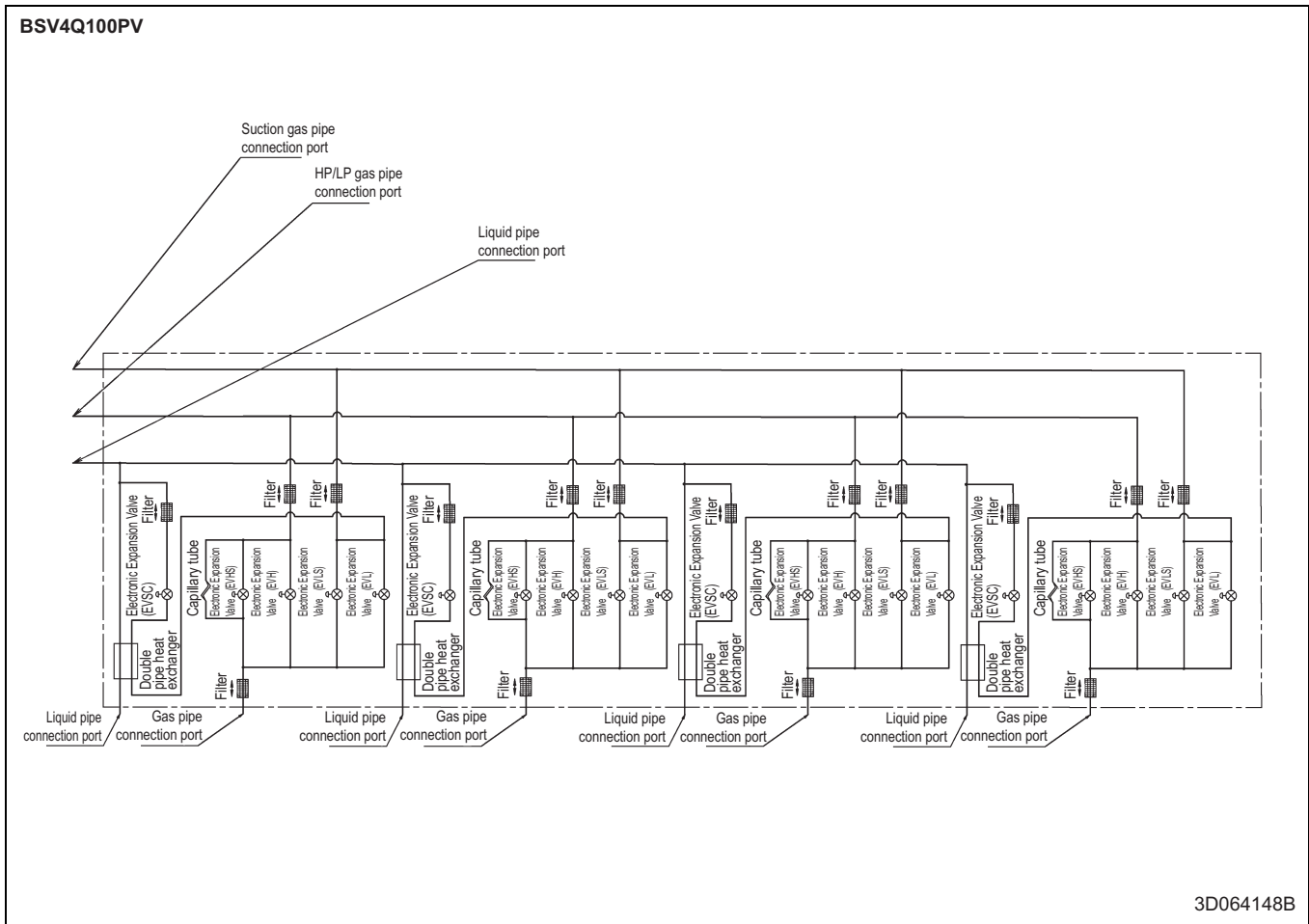


4D064140A



# 6 Piping diagrams

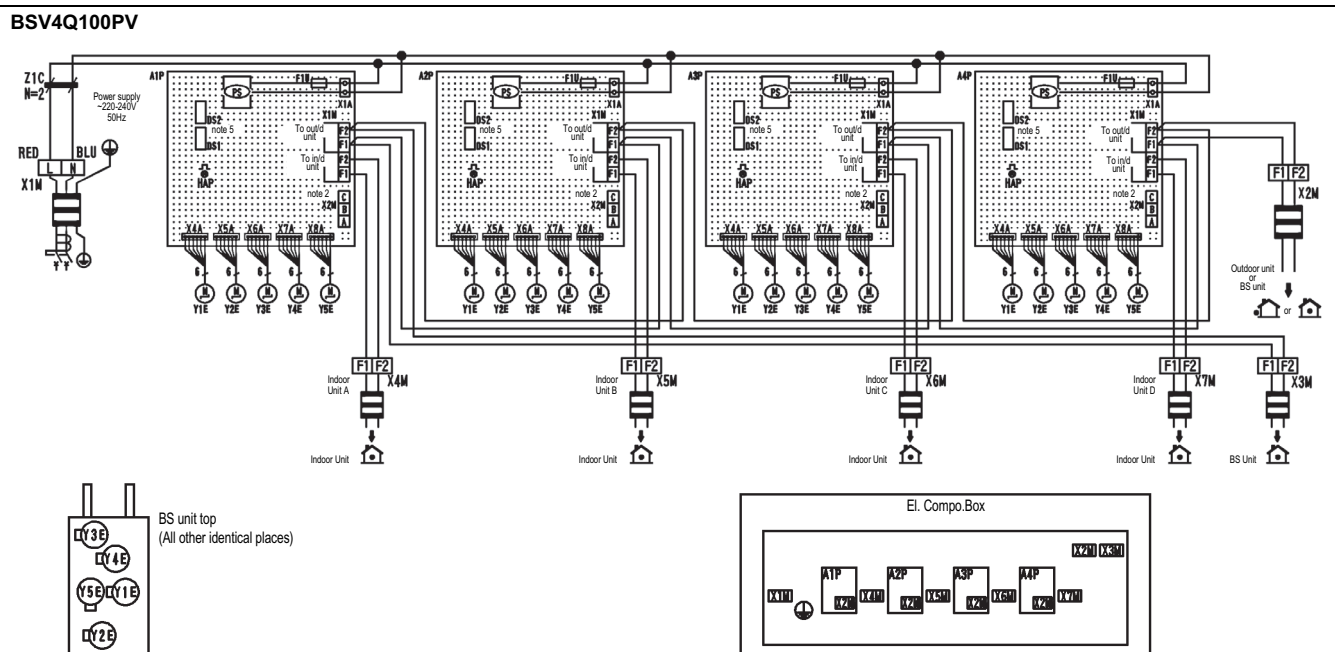
## 6 - 1 Piping Diagrams



# 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Single Phase

7



A1P (Unit A)	Printed circuit board (Indoor unit A)	X2M (A1P~A6P)	Terminal strip (C/H selector)
A1P (Unit B)	Printed circuit board (Indoor unit B)	X1M	Terminal strip (power)
A1P (Unit C)	Printed circuit board (Indoor unit C)	X2M	Terminal strip (control)
A1P (Unit D)	Printed circuit board (Indoor unit D)	Y1E	Electronical expansion valve (sub cool)
DS1, DS2	Dip switch	Y2E	Electronical expansion valve (sub discharge)
F1U	Fuse (T, 3.15A, 250V)	Y3E	Electronical expansion valve (sub suction)
HAP	Flashing lamp (service monitor green)	Y4E	Electronical expansion valve (main discharge)
PS	Switching power supply (A1P~A6P)	Y5E	Electronical expansion valve (main suction)
X1M (A1P~A6P)	Terminal strip (control)	Z1C	Noise filter (ferrite core)

- : Terminal strip
- : Connector
- : Field wiring
- : Protective earth (screw)

Colors: BLU Blue  
RED Red

3D063928B

### NOTES

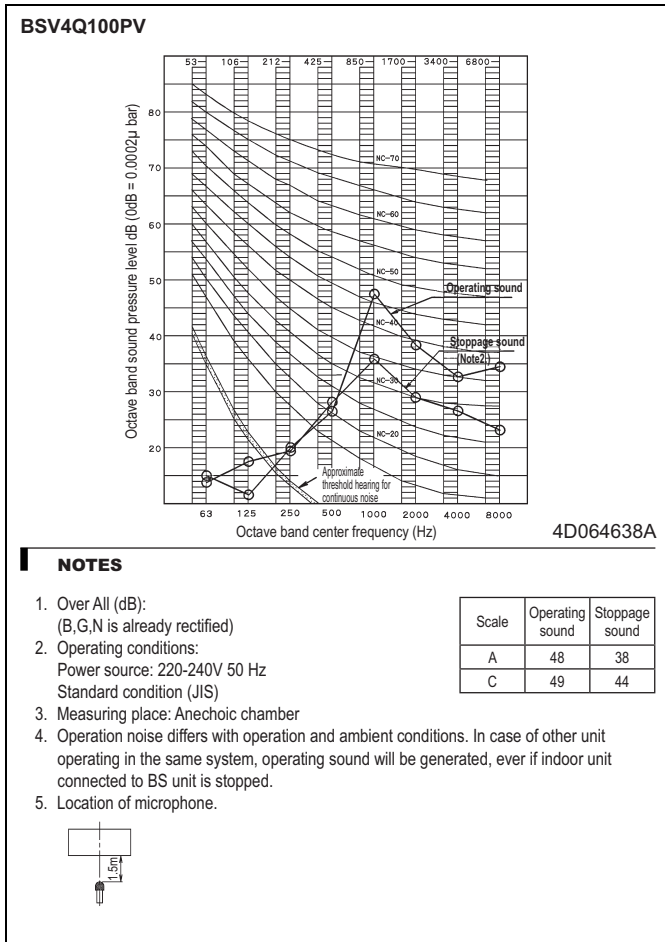
- This wiring diagram applies to the BS unit only.
- When using the COOL/HEAT selector (optional accessory), connect it to terminals A, B and C on X2M(A1P~A6P).
- As for wiring to the X2M~X9M(control), refer to the installation manual.
- Use copper conductors only.
- Dip switch (DS1-2) initial settings are as follows.



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

# 8 Sound data

## 8 - 1 Sound Pressure Spectrum



In all of us,  
a green heart



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.



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

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