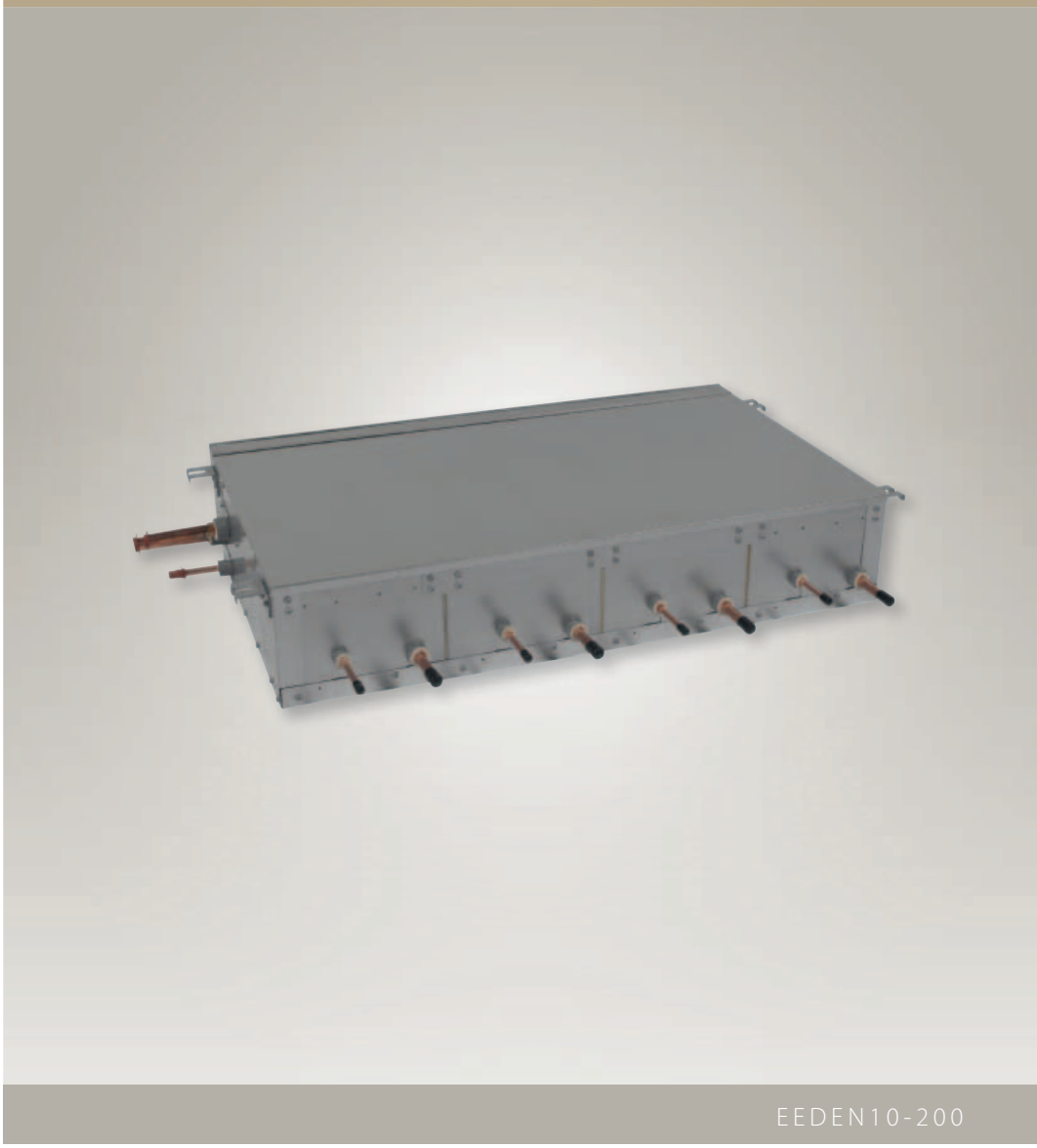
DAIKIN

Air Conditioners

Technical Data

VRV®

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



EEDEN10-200

BSV4Q100PV

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Air Conditioners

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

EEDEN10-200

BSV4Q100PV

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BSV4Q100PV

1 Specifications

1-1 Technical Specifications				BSV4Q100PV1
Maximum capacity index of connectable indoor units				400
Maximum capacity index of connectable indoor units per branch				100
Number of branches				4
Maximum number of connectable indoor units				20
Maximum number of connectable indoor units per branch				5
Power input (nominal)	Cooling		kW	0.020
	Heating		kW	0.020
Casing	Material			Galvanised steel
Dimensions	Unit	Height	mm	209
		Width	mm	1,053
		Depth	mm	635
Weight	Unit		kg	60
Outdoor Unit	Liquid (OD)	Type		Brazing connection
		Diameter	mm	12.7
	Gas	Type		Brazing connection
		Diameter	mm	28.6
	Discharge Gas	Type		Brazing connection
		Diameter	mm	19.1
Indoor Units	Liquid (OD)	Type		Brazing connection
		Diameter	mm	9.5
	Gas	Type		Brazing connection
		Diameter	mm	15.9
Sound absorbing thermal insulation material				Foamed polyurethane, Flame 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 the joint diameter does not fit on the triple piping side, a reducer is needed (field supply)
				Insulators are necessary (field supply) for the triple piping side

1-2 Electrical Specifications			BSV4Q100PV1
Power Supply	Name		V1
	Phase		1~
	Frequency	Hz	50
	Voltage	V	220-240
Voltage range	Minimum	V	-10%
	Maximum	V	+10%
Total circuit	Minimum circuit amps (MCA)	A	0.5
	Maximum Fuse Amps	A	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

BSV4Q100PV
BSV6Q100PV

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

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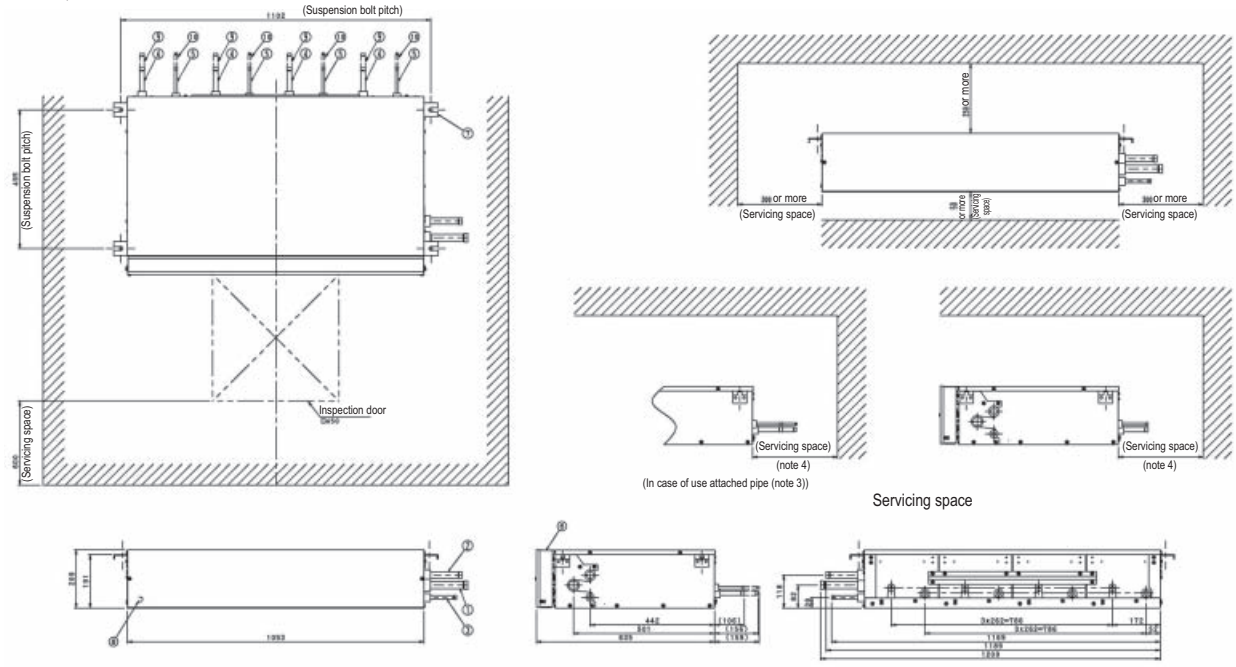
3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

BSV4Q100PV



Location of unit's name plate . . . Right side of electric box)

Nr	Name	Description
1	Suction gas pipe connection port (note 5,6)	ø28.6mm brazing connection
2	HP/LP gas pipe connection port (note 5,6)	ø19.1mm brazing connection
3	Liquid pipe connection port (note 5,6)	ø12.7mm 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

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 persons exists.
3 Attached pipe is only used in case of connecting with 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 does 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.

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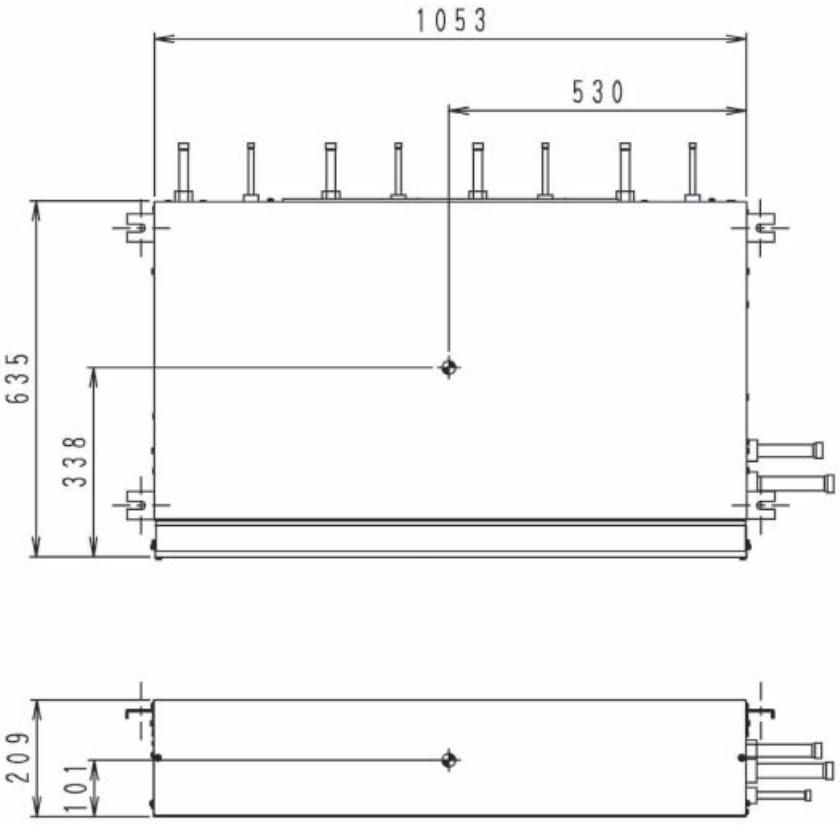
3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity

BSV4Q100PV



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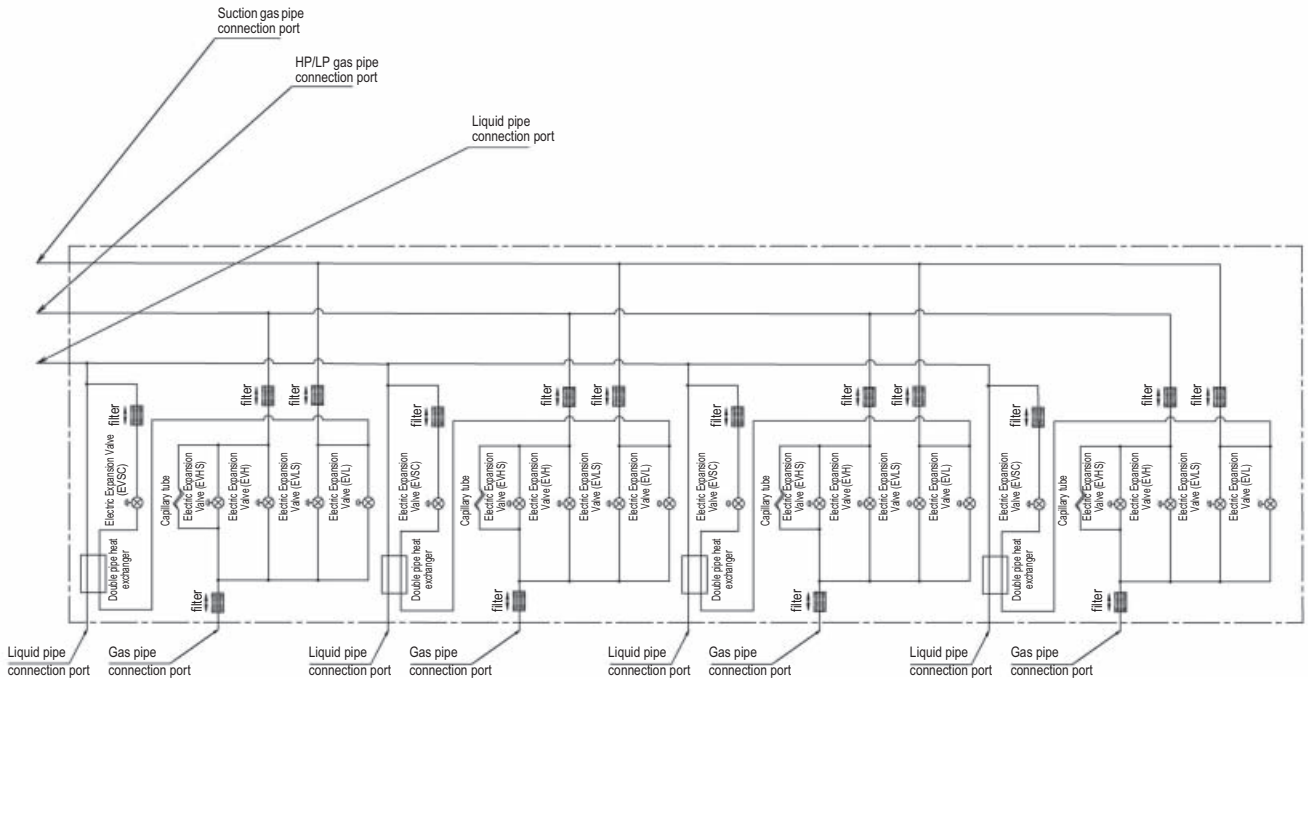
4 Piping diagram

BSV4Q100PV



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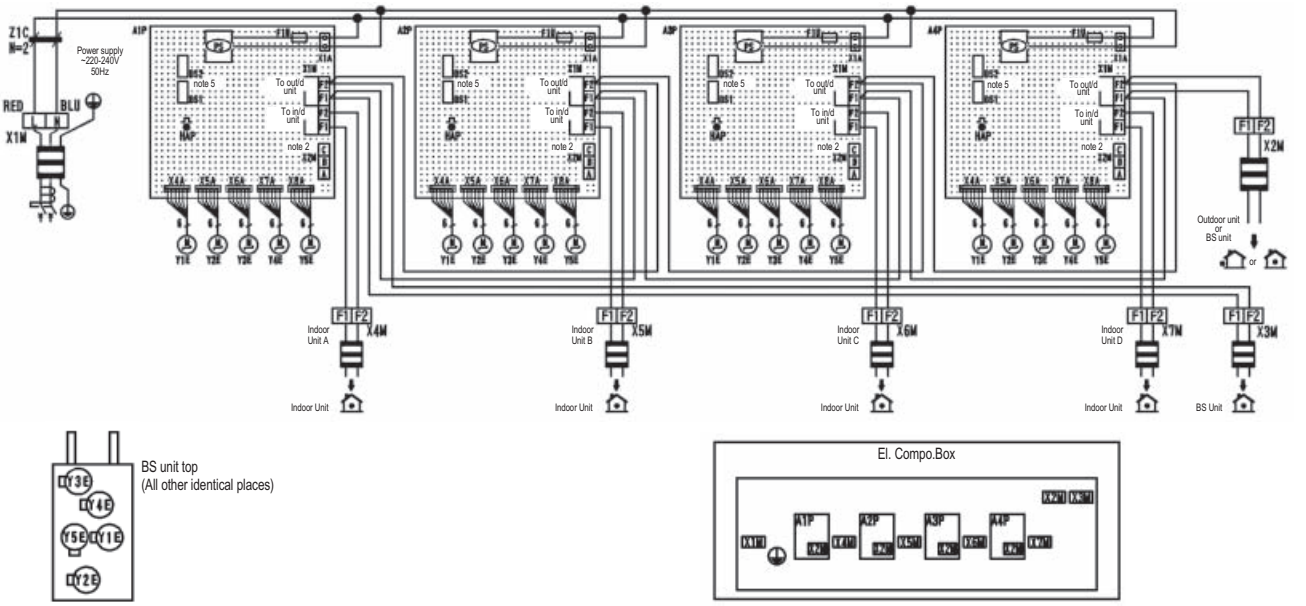
5 Wiring diagram

5 - 1 Wiring diagram

BSV4Q100PV



BS unit top
(All other identical places)

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

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NOTES

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

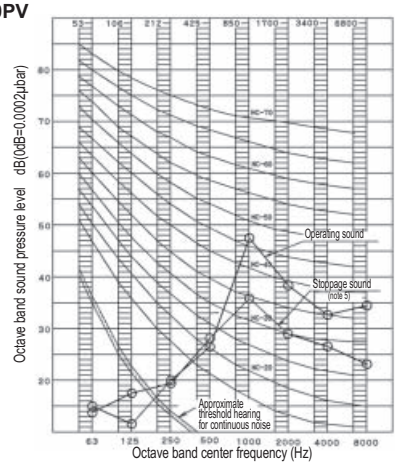
ON
OFF

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

6 Sound data

6 - 1 Sound pressure spectrum

BSV4Q100PV



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NOTE

1 Over All (dB):
(B, G, N is already rectified)

Scale	Operation sound	Stoppage sound
A	48	38
C	49	44

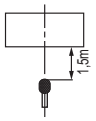
2 Operating conditions:
- Power source: 220-240V 50Hz
- Standard condition (JIS)

3 Measuring place: Anechoic chamber.

4 Operation noise differs with operation and ambient conditions.

5 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.

6 Location of microphone.



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.

Daikin products are distributed by:

EEDEN10-200

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