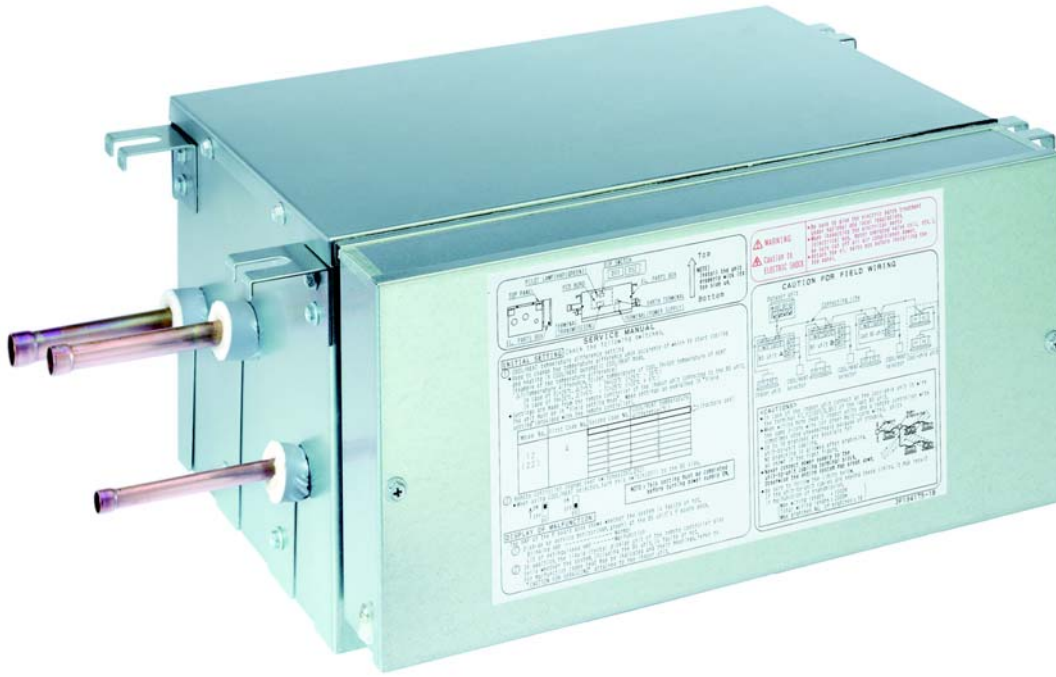
DAIKIN

Air Conditioning

Technical Data



EEDEN14-200_4

BSVQ-P9B

TABLE OF CONTENTS

BSVQ-P9B

1 Features 2

2 Specifications 3
Technical Specifications 3
Electrical Specifications 3

3 Safety device settings 4

4 Options 5

5 Dimensional drawings 6

6 Centre of gravity 10

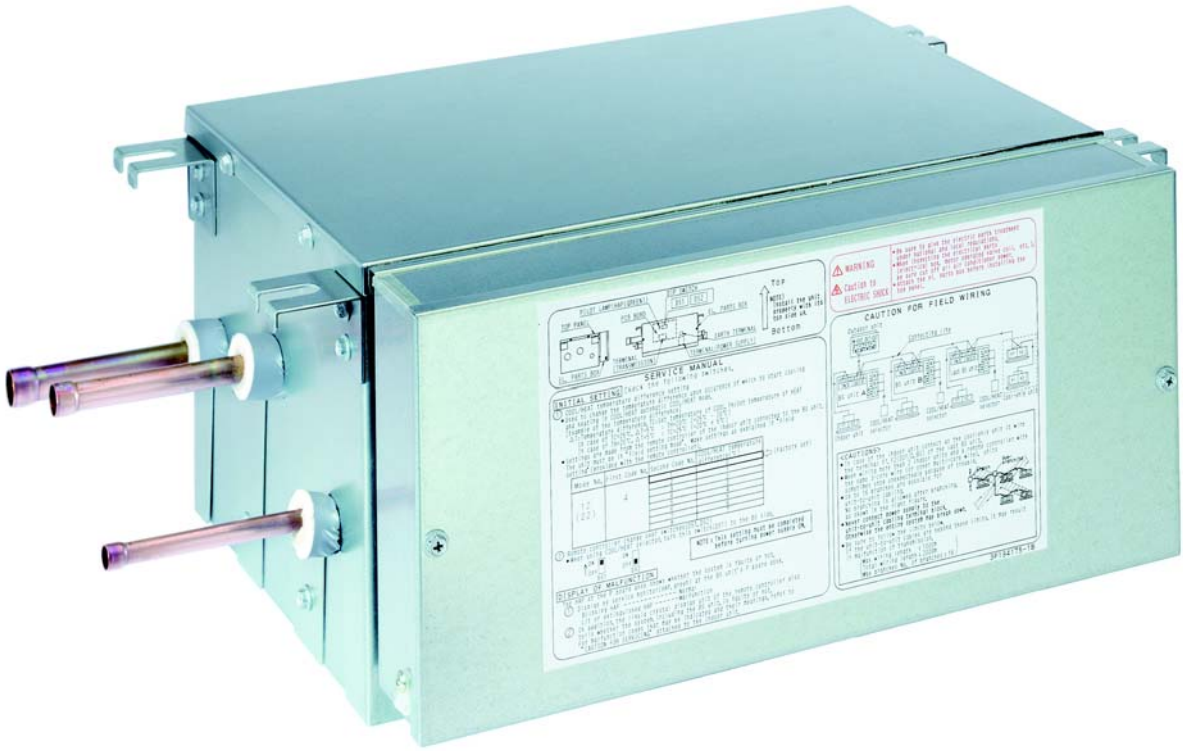
7 Piping diagrams 11

8 Wiring diagrams 12

9 Sound data 13

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)



2 Specifications

2-1 Technical Specifications					BSVQ100P9B	BSVQ160P9B	BSVQ250P9B
Power input	Cooling	Nom.		kW	0.005		
	Heating	Nom.		kW	0.005		
Maximum capacity index of connectable indoor units					15 \< x ≤ 100	100\<x≤160	160\<x≤250
Casing	Material				Galvanised steel plate		
Dimensions	Unit	HeightxWidthxDepth		mm	207x388x326		
Weight	Unit			kg	12		15
Piping connections	Outdoor unit	Liquid	Type		Brazing connection		
			OD	mm	9.5		
		Gas	Type		Brazing connection		
			OD	mm	15.9		22.2
		Discharge gas	Type		Brazing connection		
			OD	mm	12.7	12.7 (1)	19.1
	Indoor unit	Liquid	Type		Brazing connection		
			OD	mm	9.5		
		Gas	Type		Brazing connection		
			OD	mm	15.9	15.9 (1)	22.2
Sound absorbing thermal insulation					Foamed polyurethane, frame resisting needle felt		

2-2 Electrical Specifications				BSVQ100P9B	BSVQ160P9B	BSVQ250P9B
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-240		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Total circuit	Minimum circuit amps (MCA)		A	0.1		
	Maximum fuse amps (MFA)		A	15		
Notes				Instead of a fuse, use a circuit breaker		

Notes

(1) In case of connecting with a 15-50 type indoor unit, match to the size of 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 x FLA

(5) MFA \< 4 x FLA

(6) Next lower standard fuse rating minimum 16A

(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) Next lower standard fuse rating minimum 15A

(11) 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.

(12) MFA ≤ 4 x FLA

3 Safety device settings

BSVQ-P9B

Model	Safety devices
	PC board fuse
BSVQ100P9B	250V 3.15A
BSVQ160P9B	250V 3.15A
BSVQ250P9B	250V 3.15A

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4 Options

BSVQ-P9B

Nr.	Item	BSVQ100P9B	BSVQ160P9B	BSVQ1250P9B
1	PCB for multi tenant	DTA114A61		
2	Sound reduction for BSVQ box	EKBSVQLNP (see note 2)		

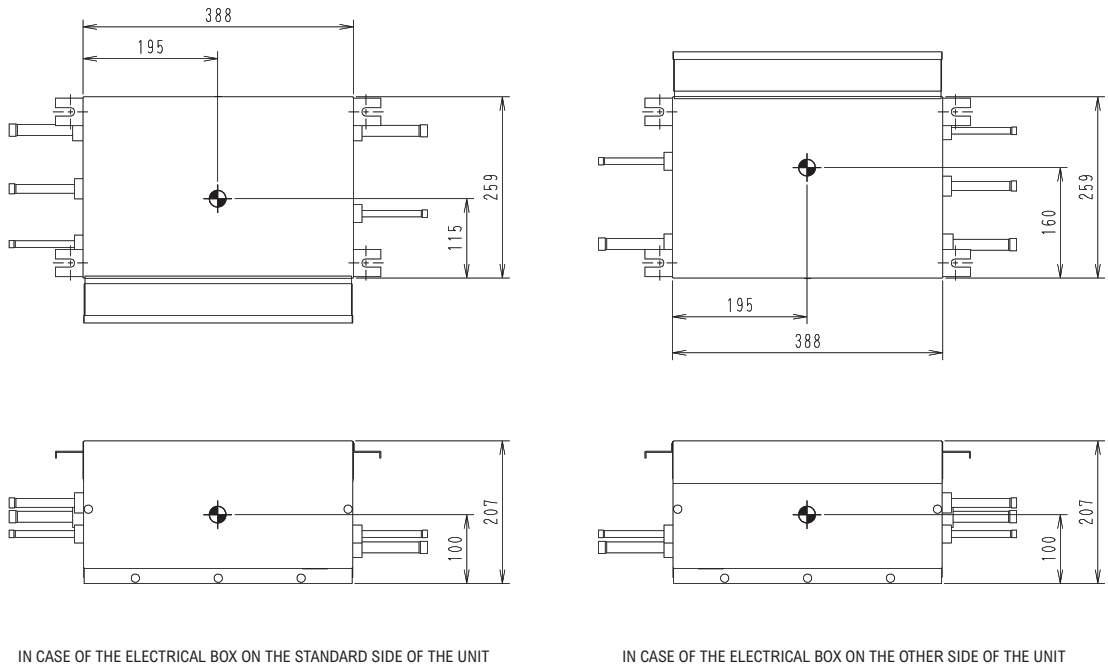
NOTES

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).

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5 Dimensional drawings

BSVQ100, 160P9B



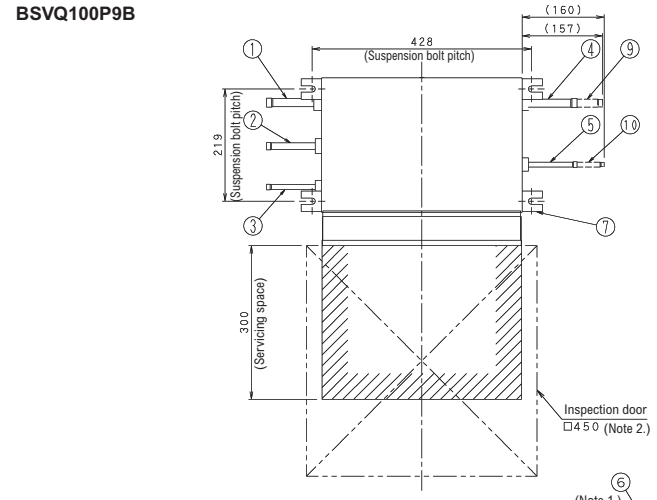
IN CASE OF THE ELECTRICAL BOX ON THE STANDARD SIDE OF THE UNIT

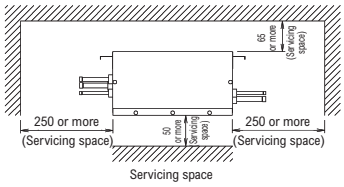
IN CASE OF THE ELECTRICAL BOX ON THE OTHER SIDE OF THE UNIT

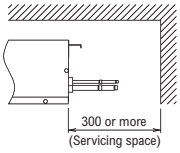
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5 Dimensional drawings

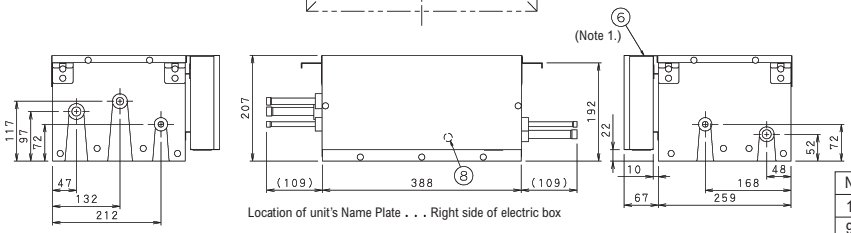
BSVQ100P9B







(In case of use Attacheed pipe)



Location of unit's Name Plate . . . Right side of electric box

NOTES

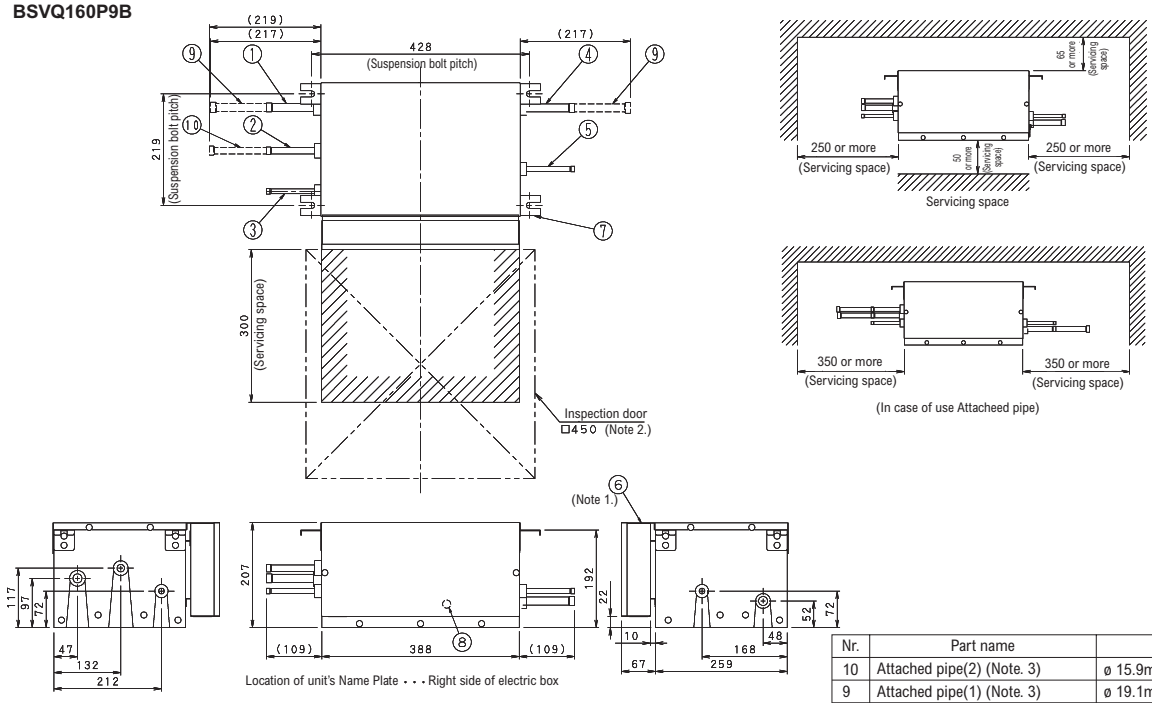
1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install a inspection door at electric box side.
3. Attached pipe is only used in case of connecting with a 20~50 class indoor unit
4. Small sound of refrigerant will be made, wich may be disturbing. Do no install it at the place such as bedroom under roof.

Nr.	Part name	Description
10	Attached pipe(2) (Note. 3)	ø 6.4mm brazing connection
9	Attached pipe(1) (Note. 3)	ø 12.7mm brazing connection
8	Grounding terminal	M4
7	Suspension brackets	M8~M10
6	Electric box (Note 1.)	
5	Liquid pipe connection port	ø 9.5mm brazing connection
4	Gas pipe connection port	ø 15.9mm brazing connection
3	Liquid pipe connection port	ø 9.5mm brazing connection
2	HP/LP gas pipe connection port	ø 12.7mm brazing connection
1	Suction gas pipe connection port	ø 15.9mm brazing connection

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5 Dimensional drawings

BSVQ160P9B



Location of unit's Name Plate · · · Right side of electric box

NOTES

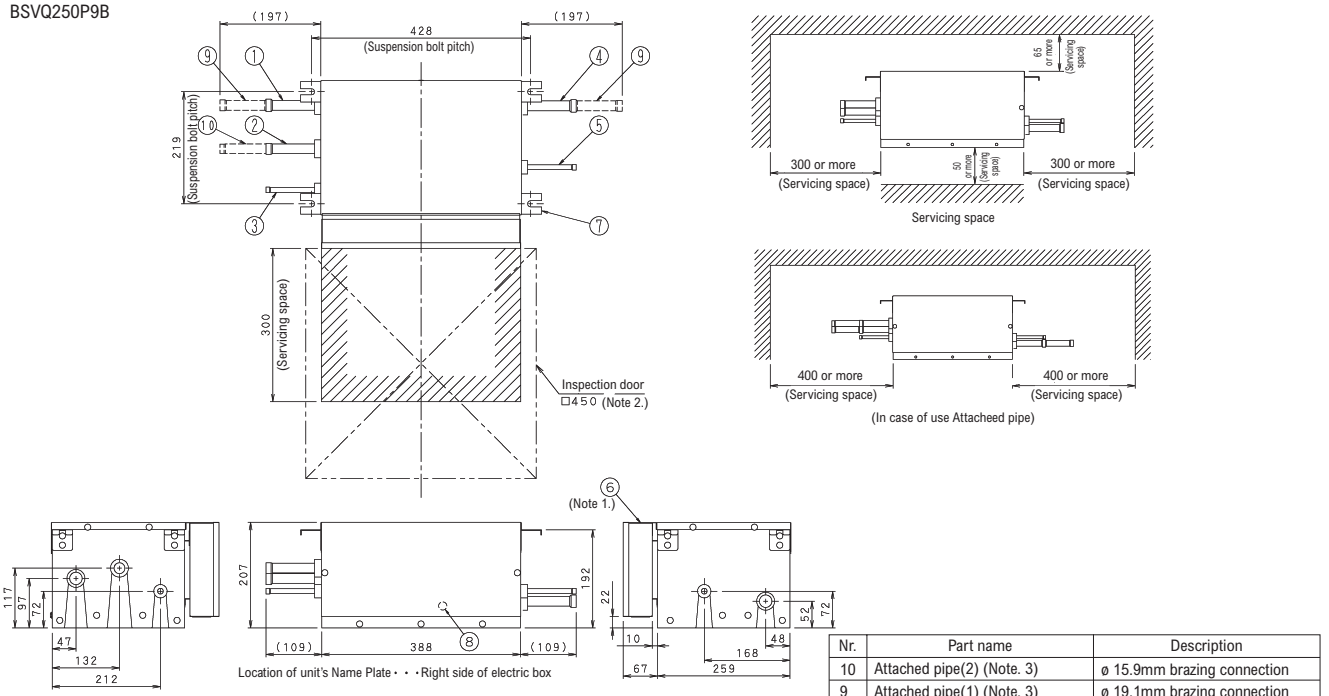
1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install a inspection door at electric box side.
3. Attached pipe is only used in case of connecting with indoor capacity index 150 or more and 160 or less.
4. Small sound of refrigerant will be made, wich may be disturbing. Do no install it at the place such as bedroom under roof.

Nr.	Part name	Description
10	Attached pipe(2) (Note. 3)	ø 15.9mm brazing connection
9	Attached pipe(1) (Note. 3)	ø 19.1mm brazing connection
8	Grounding terminal	M4
7	Suspension brackets	M8~M10
6	Electric box (Note 1.)	
5	Liquid pipe connection port	ø 9.5mm brazing connection
4	Gas pipe connection port	ø 15.9mm brazing connection
3	Liquid pipe connection port	ø 9.5mm brazing connection
2	HP/LP gas pipe connection port	ø 12.7mm brazing connection
1	Suction gas pipe connection port	ø 15.9mm brazing connection

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5 Dimensional drawings

BSVQ250P9B



NOTES

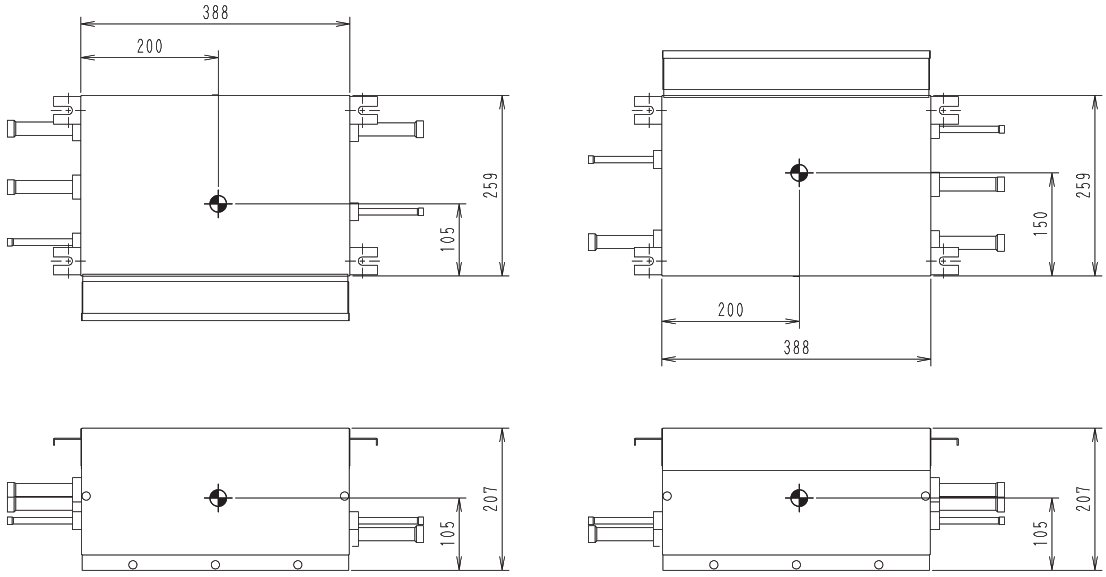
1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install a inspection door at electric box side.
3. Attached pipe(1) and Attached pipe(2) is used in case of connecting with indoor capacity index more than 160 and less than 200.
   In case of connecting one indoor unit of 200 type, only gas pipe connection port need Attached pipe(1).
4. Small sound will be made when changing over the motor operated valve, wich may be disturbing.
   Do no install it at the place such as bedroom under roof.

Nr.	Part name	Description
10	Attached pipe(2) (Note. 3)	ø 15.9mm brazing connection
9	Attached pipe(1) (Note. 3)	ø 19.1mm brazing connection
8	Grounding terminal	M4
7	Suspension brackets	M8~M10
6	Electric box (Note 1.)	
5	Liquid pipe connection port	ø 9.5mm brazing connection
4	Gas pipe connection port	ø 22.2mm brazing connection
3	Liquid pipe connection port	ø 9.5mm brazing connection
2	HP/LP gas pipe connection port	ø 19.1mm brazing connection
1	Suction gas pipe connection port	ø 22.2mm brazing connection

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6 Centre of gravity

BSVQ250P9B



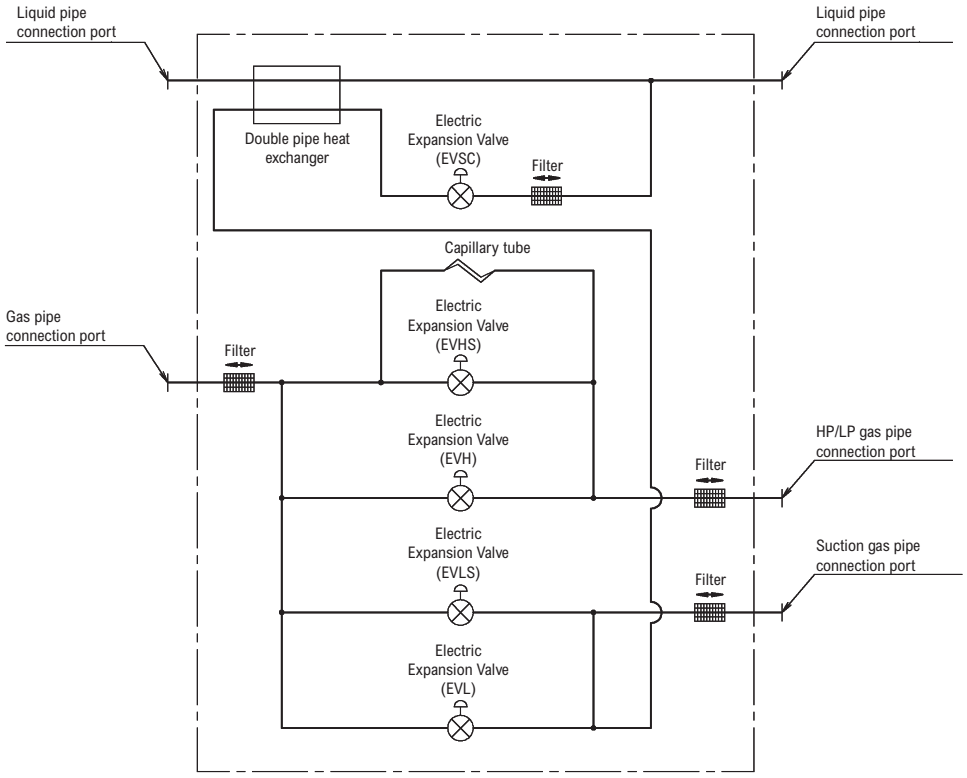
IN CASE OF THE ELECTRICAL BOX ON THE STANDARD SIDE OF THE UNIT

IN CASE OF THE ELECTRICAL BOX ON THE OTHER SIDE OF THE UNIT

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7 Piping diagrams

BSVQ-P9B



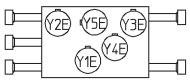
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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

BSVQ-P9B

A1P	PRINTED CIRCUIT BOARD	X1M	TERMINAL STRIP (POWER)	Z1C	NOISE FILTER (FERRITE CORE)
DS1, DS2	DIP SWITCH	X1M(A1P)	TERMINAL STRIP (CONTROL)	CONNECTOR FOR OPTIONAL PARTS	
F1U	FUSE (T, 3.15A. 250V)	X2M	TERMINAL STRIP (C/H SELECTOR)	X2A	CONNECTOR (WIRING EXTERNAL CONTROL ADAPTAR FOR OUTDOOR)
F2U	FIELD FUSE	Y1E	ELECTRONIC EXPANSION VALVE (SUB COOL)		
HAP	LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)	Y2E	ELECTRONIC EXPANSION VALVE (SUB DISCHARGE)	X38A	CONNECTOR (ADAPTOR FOR MULTI TENANT)
		Y3E	ELECTRONIC EXPANSION VALVE (SUB SUCTION)		
PS	SWITCHING POWER SUPPLY (A1P)	Y4E	ELECTRONIC EXPANSION VALVE (MAIN DISCHARGE)		
Q1DI	FIELD EARTH LEAKAGE BREAKER	Y5E	ELECTRONIC EXPANSION VALVE (MAIN SUCTION)		



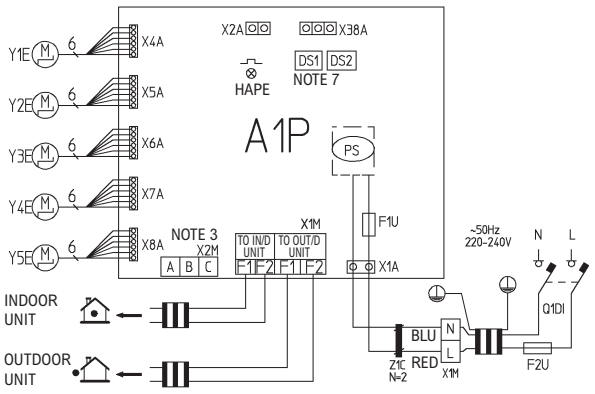
BS UNIT TOP

NOTES

1. This wiring diagram applies to the BS unit only.
2. □□□ : terminal strip, ⊡⊡: connector, —○—: terminal, L: live, N: neutral
   ▭▮▭: field wiring, ⏚: protective earth (screw).
3. When using the cool/heat selector (optional accessory), connect it to terminals A, B and C on X2M.
4. As for wiring to the IN/D unit (F1) - (F2) and OUT/D unit (F1) - (F2) on X1M (A1P), refer to the 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 THE INSTALLATION MANUAL OR TO THE "SERVICE LABEL" ON THE EL, COMPO, BOX COVER.

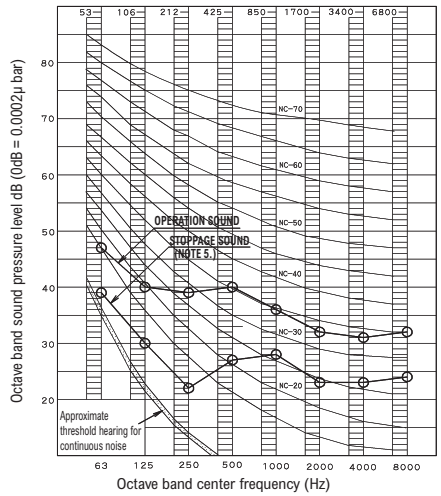


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9 Sound data

9 - 1 Sound Pressure Spectrum

BSVQ100P9B



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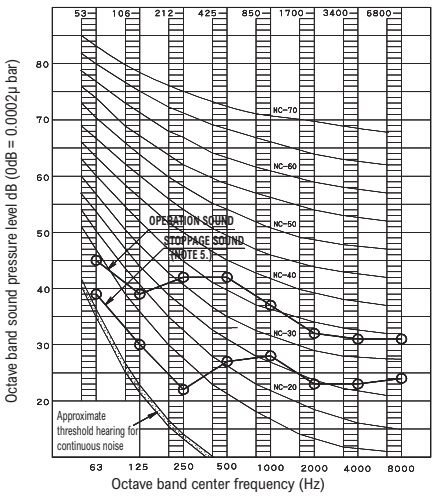
NOTES

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

Scale	Operating Sound	Stoppage sound
A	42	32
C	49	40



BSVQ160P9B



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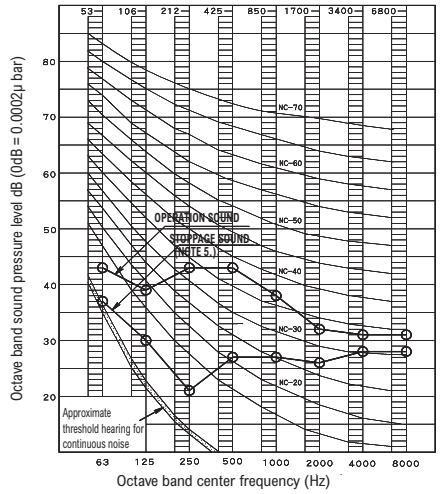
NOTES

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

Scale	Operating Sound	Stoppage sound
A	43	32
C	49	40



BSVQ250P9B



4D058946A

NOTES

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

Scale	Operating Sound	Stoppage sound
A	44	34
C	49	39



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