

1 Specifications

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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		Braze connection	
		Diameter	mm	12.7	
	Gas	Type		Braze connection	
		Diameter	mm	28.6	
	Discharge Gas	Type		Braze connection	
		Diameter	mm	19.1	
Indoor Units	Liquid (OD)	Type		Braze connection	
		Diameter	mm	9.5	
	Gas	Type		Braze 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

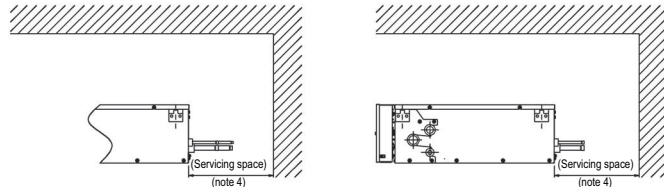
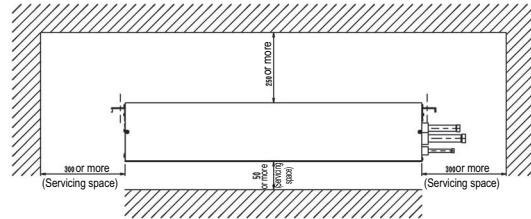
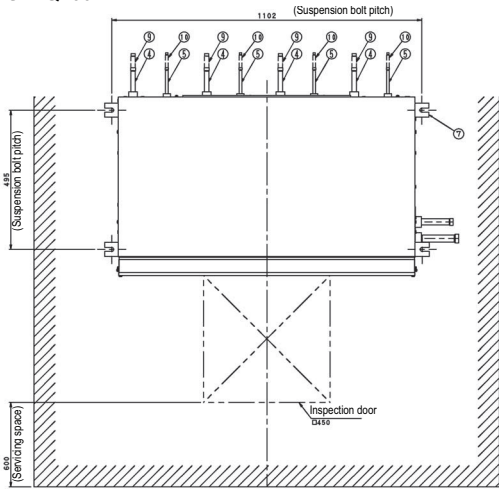
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3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

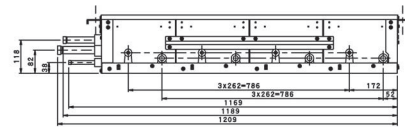
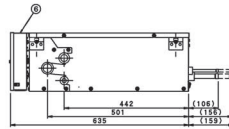
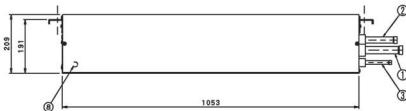
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BSV4Q100PV



(In case of use attached pipe (note 3))

Servicing space



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

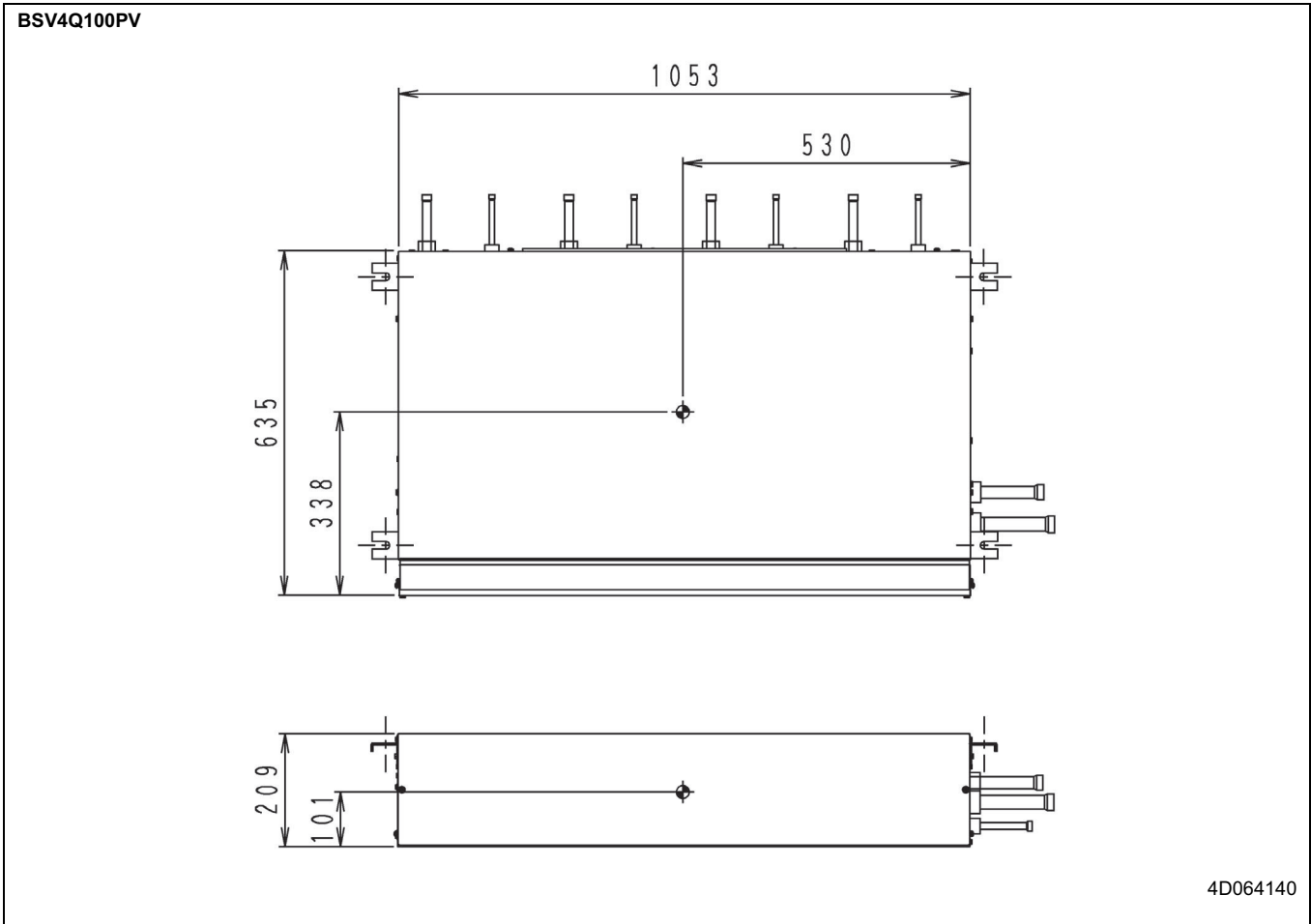
NOTES

- Be sure to install an inspection door at electric box side. Another door is necessary to unload the product.
- 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.
- Attached pipe is only used in case of connecting with 20-50 class indoor unit.
- Occupy the space with is possible to install field pipes.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.

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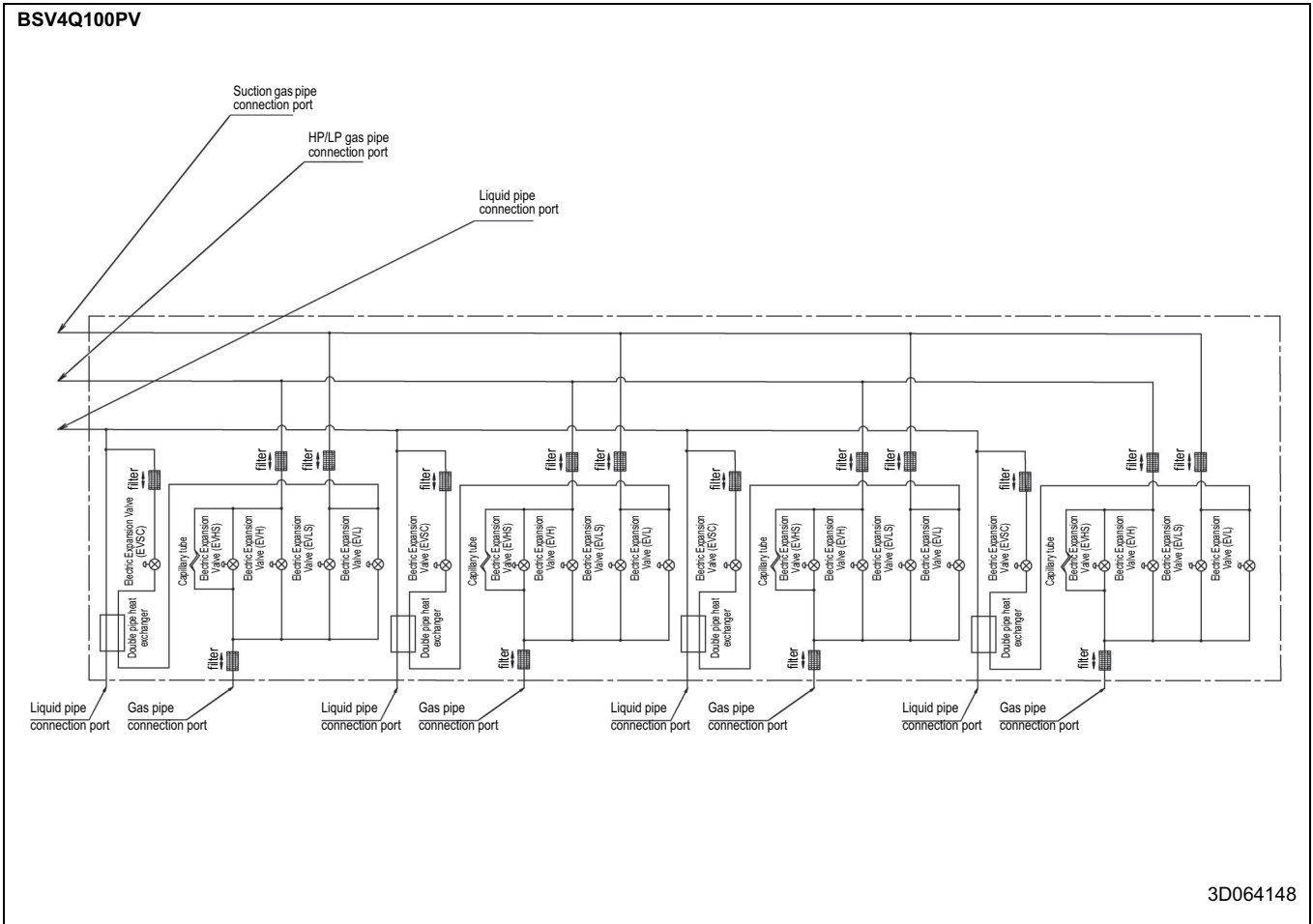
3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity



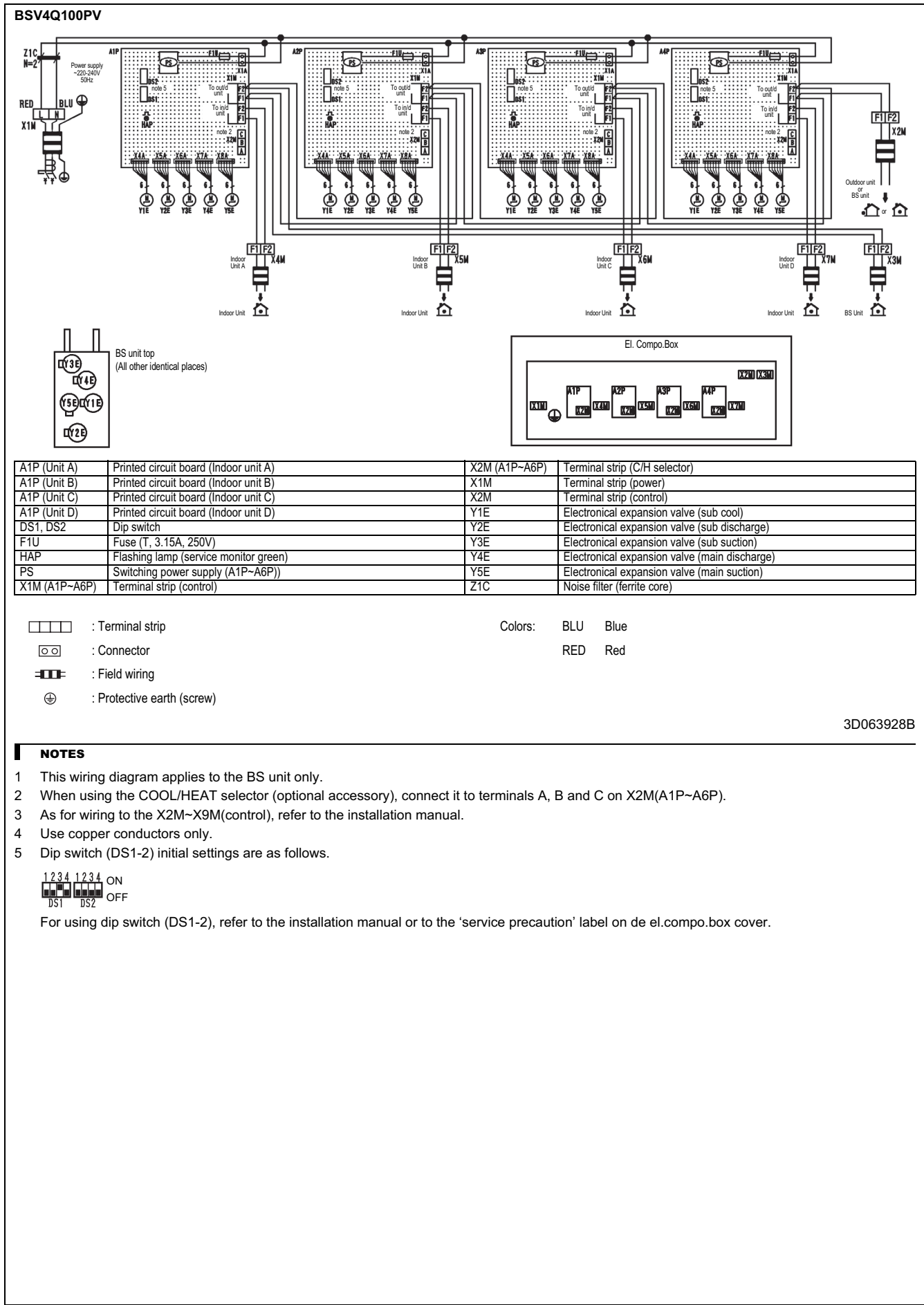
4 Piping diagram

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5 Wiring diagram

5 - 1 Wiring diagram



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.



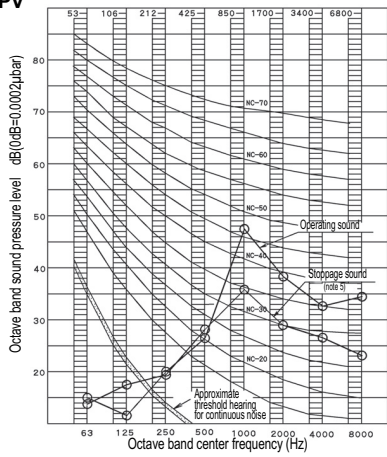
For using dip switch (DS1-2), refer to the installation manual or to the 'service precaution' label on the el.compo.box cover.

6 Sound data

6 - 1 Sound pressure spectrum

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BSV4Q100PV



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NOTE

- 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	Operation sound	Stoppage sound
A	48	38
C	49	44

