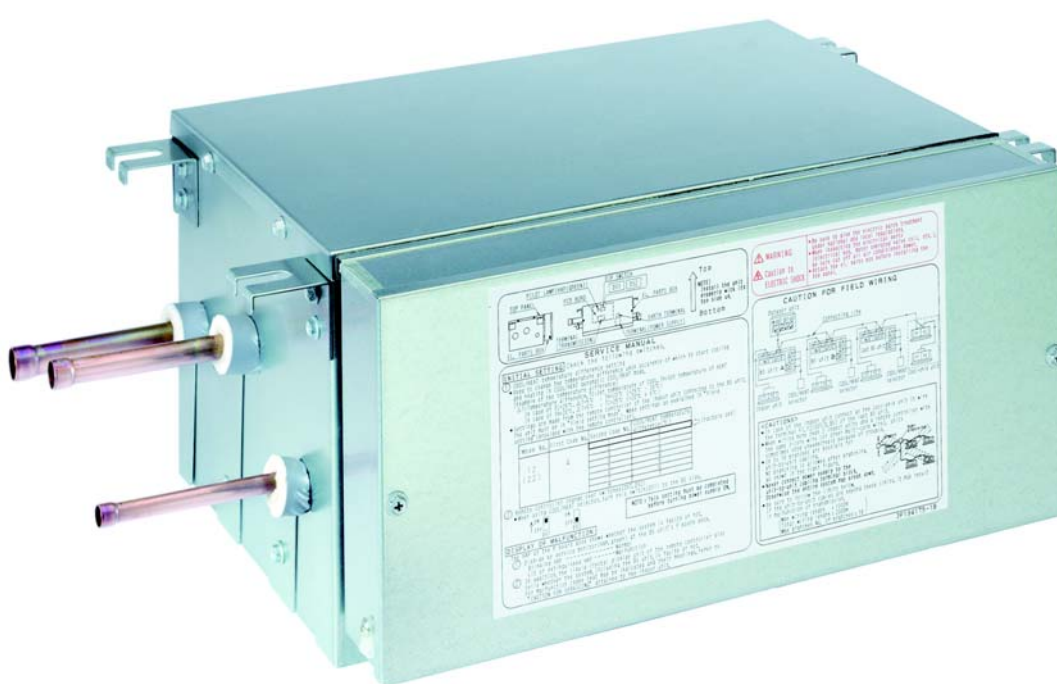




Air Conditioning

Technical Data

Individual branch selector for VRV IV heat recovery



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BS1Q-A

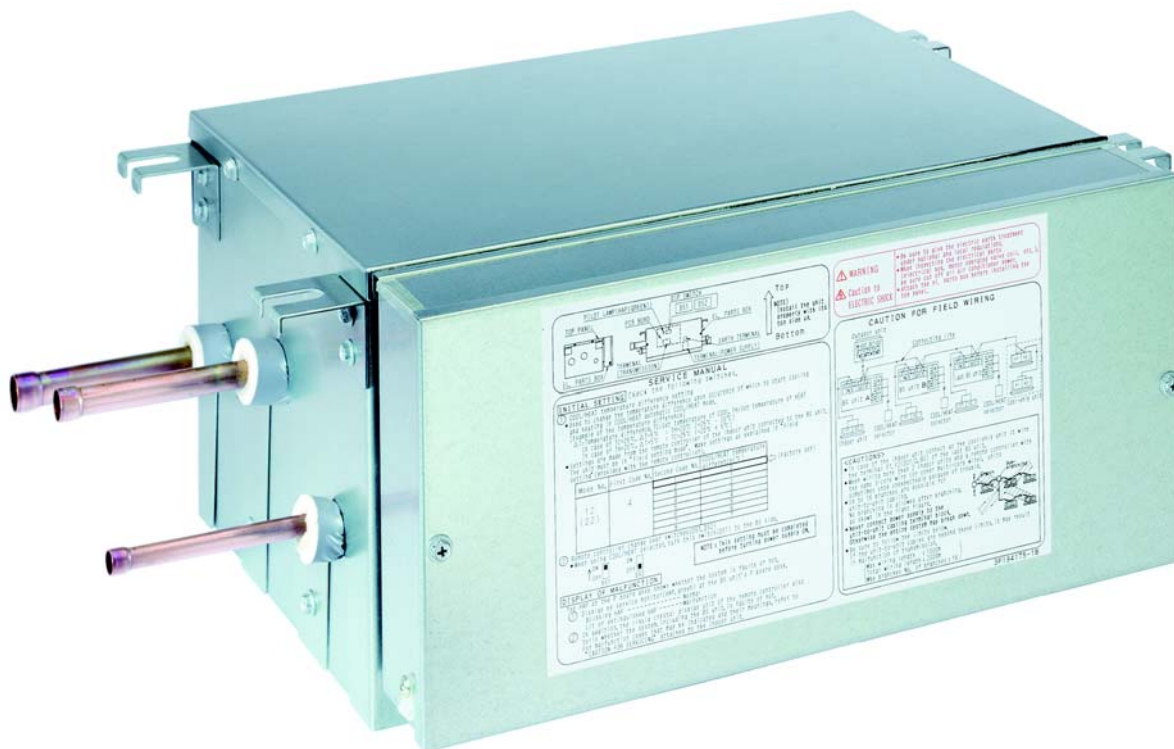
TABLE OF CONTENTS

BS1Q-A

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	3
3	Electrical data.....	4
4	Safety device settings	5
5	Options	6
6	Piping diagrams	7
7	Wiring diagrams	8
	Wiring Diagrams - Single Phase	8
8	Sound data.....	9
	Sound Pressure Spectrum	9

1 Features

- Unique range of single and multi BS boxes for flexible and fast design
- Compact & light to install
- Ideal for remote rooms as no drain piping is needed
- Allows integration of server rooms into the heat recovery solution thanks to technical cooling function
- Connect up to 250 class unit (28kW)
- Faster installation thanks to open connection
- Allows multi tenant applications
- Connectable to REYQ-T VRV IV heat recovery units



2 Specifications

2-1 Technical Specifications					BS1Q10A		BS1Q16A		BS1Q25A		
Power input	Cooling	Nom.		kW	0.005						
	Heating	Nom.		kW	0.005						
Maximum number of connectable indoor units					5		8				
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				19.1		
	Indoor unit	Liquid	Type		Brazing connection						
			OD	mm	9.5						
		Gas	Type		Brazing connection						
			OD	mm	15.9				22.2		
Sound absorbing thermal insulation					Foamed polyurethane Flame-resistant needle felt						

Standard Accessories : Clamps;

Standard Accessories : Accessory pipe;

Standard Accessories : Insulation;

Standard Accessories : Installation manual;

2-2 Electrical Specifications				BS1Q10A	BS1Q16A	BS1Q25A
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, use the accessory pipe to match the size of the field pipe. Be sure to braze the connection between the accessory pipe and the field pipe.

(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 15A

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

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

(9) In case of connecting to a 150-160 type indoor unit, use the accessory pipe to match the size of the field pipe. Be sure to braze the connection between the accessory pipe and the field pipe.

(10) In case of connecting to a 160-200 type indoor unit, use the accessory pipe to match the size of the field pipe. Be sure to braze the connection between the accessory pipe and the field pipe.

3 Electrical data

3 - 1 Electrical Data

BS1Q-A

Category of unit				Power supply		Power input [W]	
Model	Hz	Voltage	Voltage range	MCA	MFA	Cooling	Heating
BS1Q10A7V1B	50	220-240	Maximum: ·264V·	0.1	15	5	5
BS1Q16A7V1B			Minimum: ·198V·				
BS1Q25A7V1B							

Symbols

MCA: Minimum Circuit Ampere (A)

MFA: Maximum Fuse Ampere (A) See note ·5·.

Notes

1. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
2. The maximum allowable voltage that is unbalanced between phases is ·2·%.
3. MCA / FLA
 $MCA = 1.25 \times FLA$
 $MFA \leq 4 \times FLA$
The next lower standard fuse rating is minimum ·15· ampere.
4. Select the wire size according to the MCA.
5. Use a circuit breaker instead of a fuse.

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4 Safety device settings

4 - 1 Safety Device Settings

BS1Q-A

Model	Safety devices
	PCB fuse
BS1Q10A7V1B	250V 3.15A
BS1Q16A7V1B	250V 3.15A
BS1Q25A7V1B	250V 3.15A

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5 Options

5 - 1 Options

BS1Q-A

Option list

	Item	BS1Q10A	BS1Q16A	BS1Q25A
1	PCB for multi-tenant indoor units	DTA114A61		
2	Sound reduction kit	EKBSVQLNP See note 2.		

Notes

1. All options are kits
2. Only available for standard BS units.
Reduces the operating sound of the BS unit (requires 1 kit per unit).

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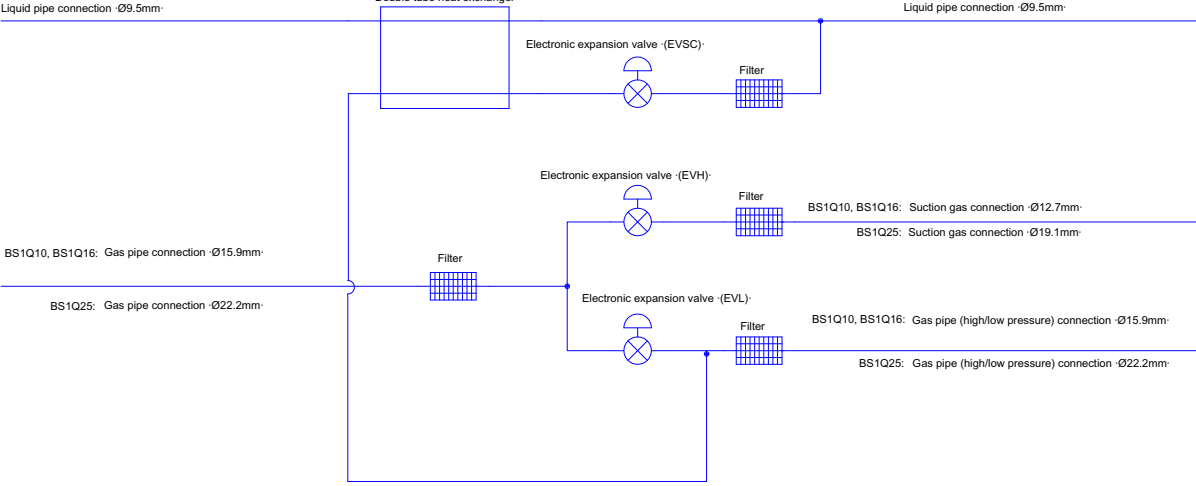
6 Piping diagrams

6 - 1 Piping Diagrams

BS1Q-A

Indoor-side connection

Outdoor-side connection

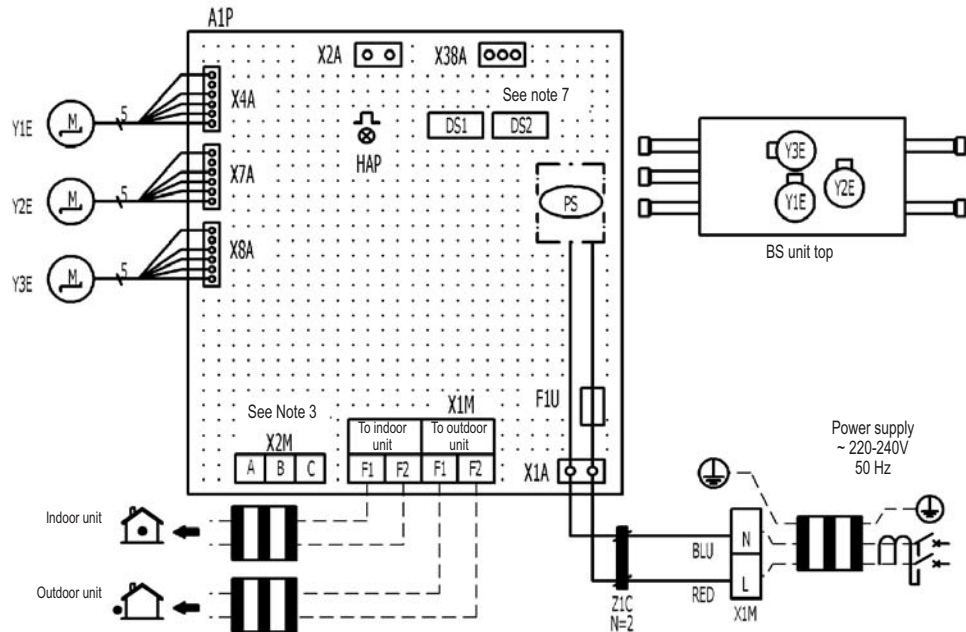


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7 - 1 Wiring Diagrams - Single Phase


BS1Q-A

Wiring Diagram




A1P	Printed circuit board	X1M	Terminal strip (power)	Y3E	Electric expansion valve (main suction)
DS1_DS2	DIP switch	X1M(A1P)	Terminal strip (control)	Z1C	Noise filter (ferrite core)
F1U	Fuse (T; 3.15A, 250V)	X2M	Terminal strip (C/H selector)	Connector for optional parts	
HAP	Flashing lamp (service monitor-green)	Y1E	Electric expansion valve (sub cool)	X2A	Connector (wiring external control adapter for outdoor unit)
PS	Switching power supply	Y2E	Electric expansion valve (main discharge)	X38A	Connector (adapter for multi tenant)

NOTES


1. This wiring diagram applies to the BS unit only
 2. : Terminal strip, : Terminal, : Field wiring, : Protective earth
 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 indoor unit (F1) (F2) and outdoor unit (F1) (F2)
 5. Symbols shows as follows: (BLU: Blue, RED: Red)
 6. Use copper conductors only.
 7. DIP Switch (DS1, DS2) initial settings are as follows:
- 

DS1




DS2

On
Off




DS1




DS2

On
Off



DS1

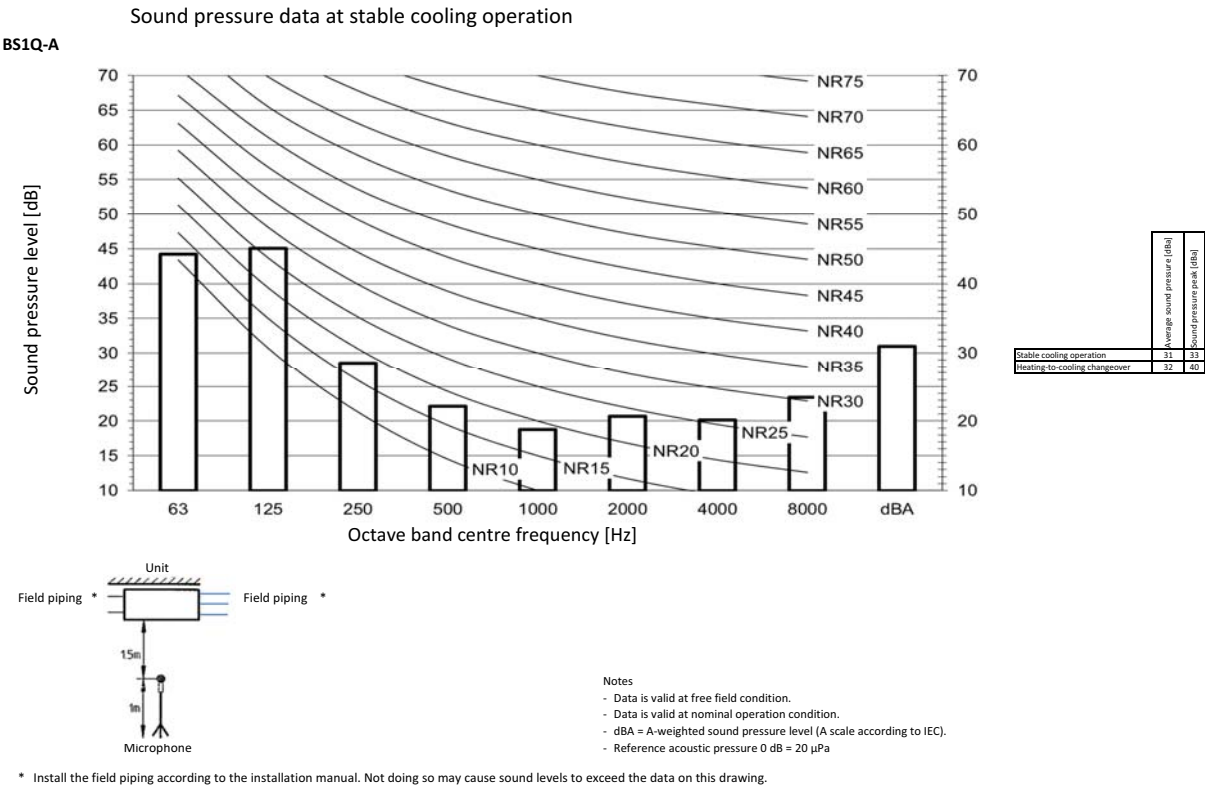


DS2

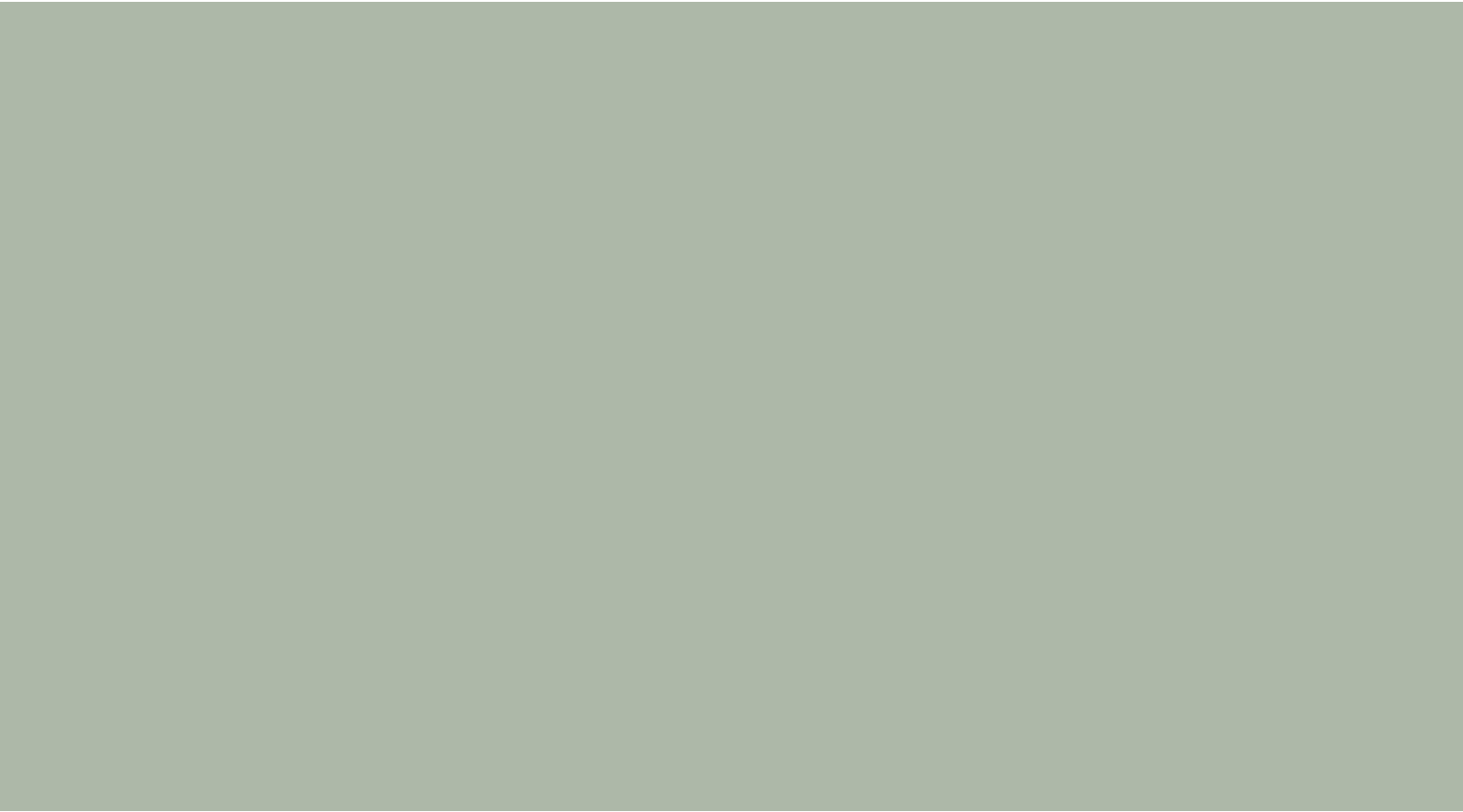
On
Off

For using DIP Switch (DS1, DS2), refer to installation manual or "service precaution" label on EL Compo. box cover.

8 Sound data
8 - 1 Sound Pressure Spectrum



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