

# technical data

**IPIII** Systems

BSVQ-MV1

BS box

## BSVQ-MV1 BS box



1	Specifications	
	Technical specifications	2
	Electrical specifications	2
	Safety device settings	2
2	Accessories	2
3	Dimensions	
	Dimensional drawings	3
	Centre of gravity	4
4	Piping diagram	5
5	Wiring diagram	6

# 1 Specifications

#### 1-1 Technical specifications

BSVQ-MV1				100	160	250	
TOTAL CAPACITY INDEX OF CONNECTABLE INDOOR UNIT				≤ 100	100 < X ≤ 160	160 < X ≤ 250	
MAXIMUM NUMBER OF CONNECTABLE INDOOR UNITS				5	8	5	
NOMINAL INPUT Cooling		W	21	21	21		
	Heating	Heating		21	21	21	
DIMENSIONS	DIMENSIONS mm				185x310x280		
WEIGHT			kg	9	9	10	
CASING				galvanised steel plate			
PIPING CONNECTIONS	Indoor unit	Liquid	mm	9.5 (flare) *1	9.5 (flare)	9.5 (flare)	
		Gas	mm	15.9 (flare) *1	15.9 (flare)	22.2 (flange) *2	
	Outdoor unit	Liquid	mm	9.5 (flare) *1	9.5 (flare)	9.5 (flare)	
		Suction gas	mm	15.9 (flare) *1	15.9 (flare)	22.2 (flange) *2	
		Discharge gas	mm	12.7 (flare) *1	12.7 (flare)	19.1 (brazing) *3	
Sound absorbing thermal insulation material				flame and heat resistant foamed polyethylene			

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#### NOTES

- 1 If the total capacity of all indoor units connected to the system is less than 7,1kW, connect the attached pipe to the field pipe. (Braze the connection between the attached pipe and the field pipe)
- 2 Use the field flanged pipe. Also with a 200 class indoor unit, connect the attached reducer to the field pipe. (Braze the connection between the attached pipe and field pipe)
- 3 Use the attached pipe
- 4 Information was not available at the time of publication
- Please note that connectable indoor unit for BSVQ250M is from size 50 onwards. This means that indoor size 20 to 40 should NOT be connected to BSVQ250M. The explanation of possible trouble is that there is mainly a problem with the refrigerant side: if only this BSVQ is in heating, and all the other BSVQ are in cooling, there is a high risk of liquid back to the suction side (by insufficient evaporation of liquid used for extra sub-cool). If such operation of BSVQ250M runs for a while with an indoor thermostat-on of index 40 or less, it can result in compressor failure. The communication itself will work as the BSVQ does not know its size, so it can not check if indoor index is correct or not.
- 6 BS boxes cannot be installed upside down
- 7 In case of sound sensitive application, please contact your local daikin reprensentative for more details and recommandations

#### 1-2 Electrical specifications

BSVQ-MV1			100	160	250	
CURRENT	Minimum circuit amps (MCA)	А	0.2			
	Maximum fuse amps (MFA)	А	15			
POWER SUPPLY V1		V1	1~, 50Hz, 220-240V			
VOLTAGE RANGE	OLTAGE RANGE Min ~ Max		198 ~ 264			

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#### NOTES

- 1 Voltage range: units are suitable for use on electrical systems where voltage supplied to units terminals is not below or above listed range limits.
- 2 Maximum allowable voltage unbalance between phases is 2 %
- 3 MCA / MFA:

 $MCA = 1.25 \times FLA$ 

 $MFA \leq 4 \ x \ FLA$ 

(Next lower standard fuse rating. Min. 15A)

- 4 Select wire size based on the MCA
- 5 Instead of fuse, use circuit breaker
- 6 For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally, click on the document title of your choice.

#### 1-3 Safety device settings

BSVQ-MV1	100	160	250
PC BOARD FUSE	250V, 5A		

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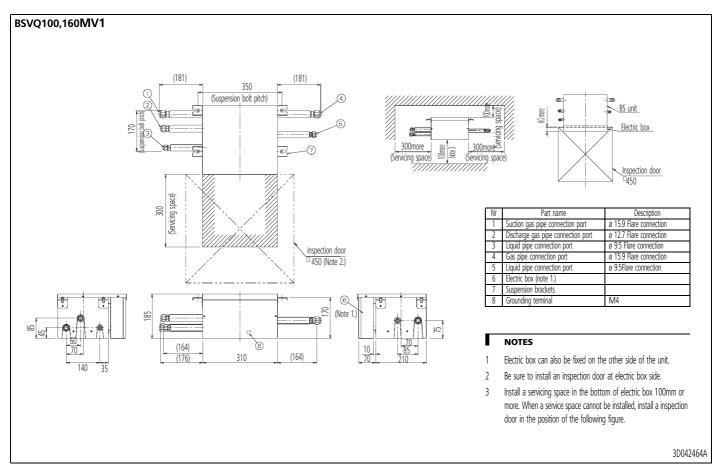
#### 2 Accessories

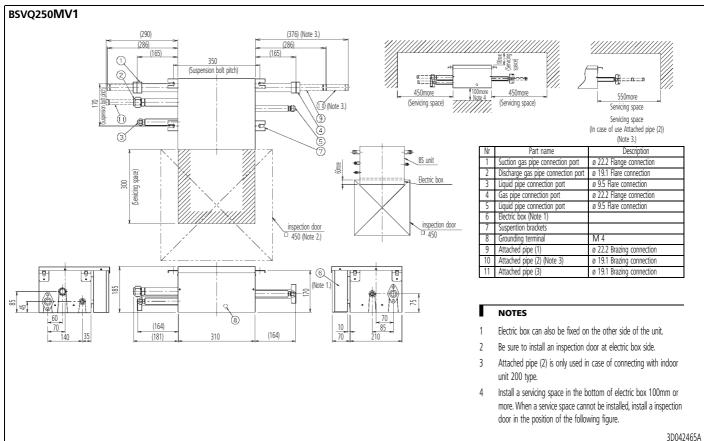
BSVQ-MV1	100	160	250
COOL/HEAT SELECTOR	KRC19-26A		
FIXING BOX	KJB111A		

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#### 3 Dimensions

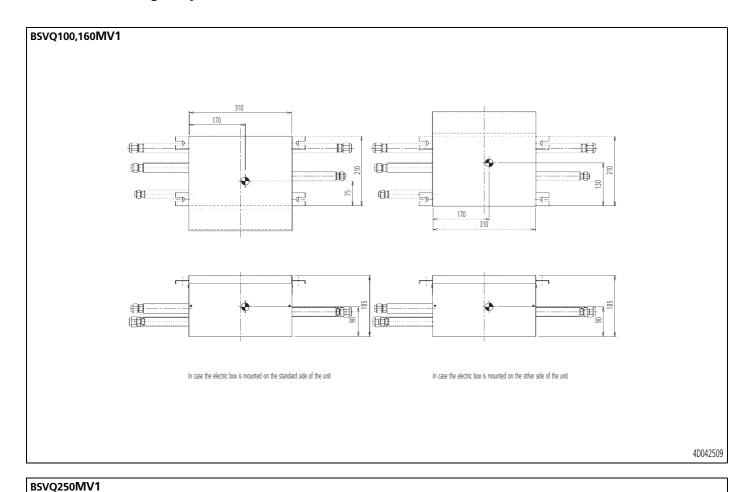
#### 3-1 Dimensional drawings

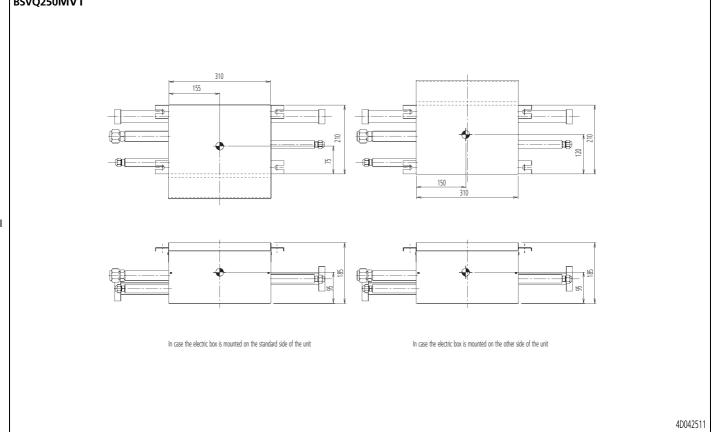




### 3 Dimensions

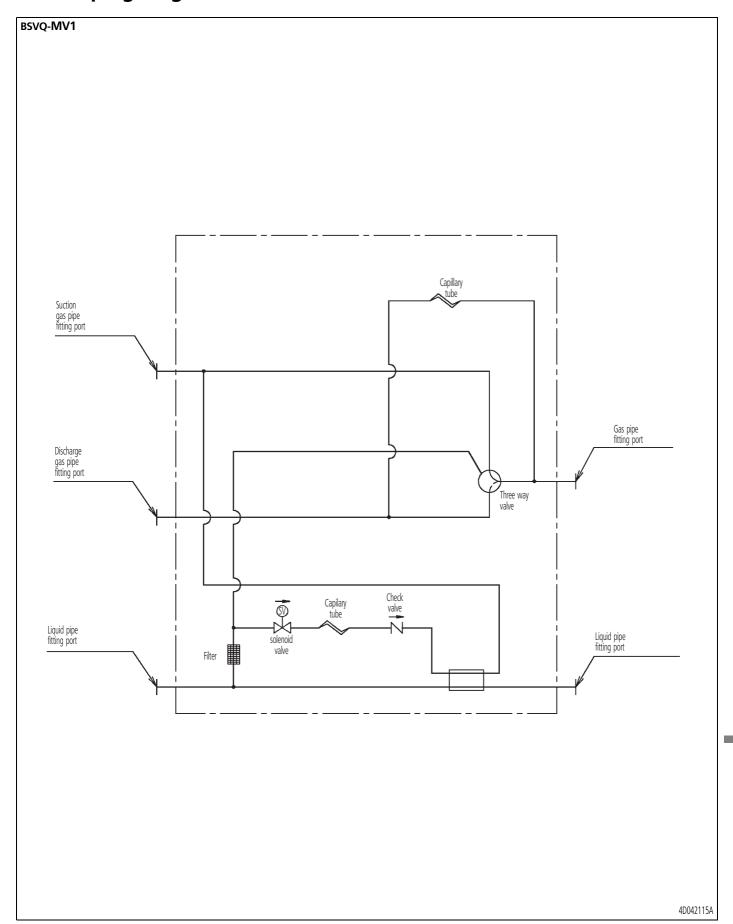
#### 3-2 Centre of gravity





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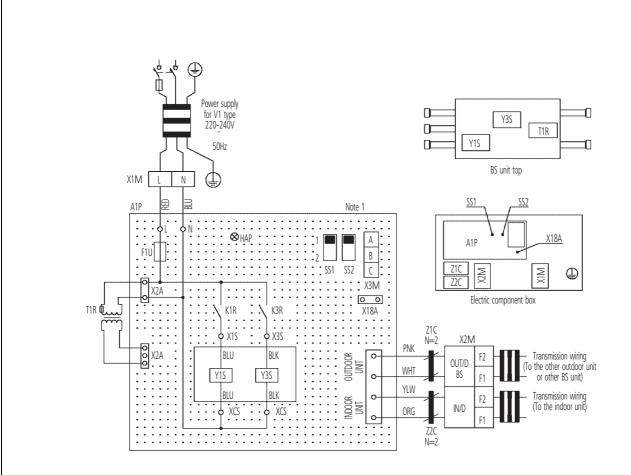
# 4 Piping diagram



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# 5 Wiring diagram

BSVQ-MV1



L-RED	N-BLUE				
A1P	Printed circuit board	T1R	Transformer (220–240V/20V)	Y3S	4 way valve (Discharge line)
F1U	Fuse (B, 250V, 5A,)	X1M	Terminal strip (Power)	Connector for optional parts	
HAP	Light emitting diode (Service monitor-green)	X2M	Terminal strip (Control)	X18A	Conntector (Wiring external control adaptor for outdoor unit)
K1R, 3R	Magnetic relay	ХЗМ	Terminal strip (C/H Selector)		
SS1, 2	Selector switch (Selection of remote controlller)	Y1S	Solenoid valve (Liquid line)	Z1C, 2c	Noise filter (Ferite core)

: Field wiring : Connector

 □□
 : Connector
 COLORS
 : BLK : Black
 ORG : Orange

 -□
 : Wire clamp
 BLU : Blue
 RED : Red

 □□
 : Terminal
 PNK : Pink
 WHT : White

YLW: Yellow

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1 When using the cool/heat selector (optional accessory), connect it to terminals A, band C on X3M (A1P). In the case, set the selector switch SS1 & SS2 on the A1P according to below drawing.



- 2 As for wiring to the IN/D F1&F2 and OUT/D, BS F1&F2 on X2M, refer to installation manual.
  - This wiring diagram applies to the BS unit only.
- 4 Use copper conductors only

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# Systems





Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin units comply with the European regulations that guarantee the safety of the product.

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

Daikin equipment is designed for comfort applications. For use in other applications, please contact your local Daikin representative.

Specifications are subject to change without prior notice

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