



technical data

BS Units
BSV4Q100P7V1

air conditioning systems

VRV® III
VRV®-WII

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BSV4Q100P7V1

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1 Specifications

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| 1-1 TECHNICAL SPECIFICATIONS | | | | BSV4Q100P7V1 |
|---|---------------|----------|----|---|
| Total indoor unit capacity | | | | A ≤ 400 (≤ 100 per individual box) |
| Total number of connectable indoor units | | | | 20 (5 per individual box) |
| Power input (nominal) | Cooling | | kW | 0.020 |
| | Heating | | kW | 0.020 |
| Casing | Material | | | Galvanised steel |
| Dimensions | Unit | Height | mm | 207 |
| | | Width | mm | 1,538 |
| | | Depth | mm | 777 |
| Weight | Unit | | | kg |
| Outdoor Unit | Liquid (OD) | Type | | Brazing connection |
| | | Diameter | mm | 12.7 (*1) |
| | Gas | Type | | Brazing connection |
| | | Diameter | mm | 19.1 (*2) |
| | Discharge Gas | Type | | Brazing connection |
| | | Diameter | mm | 28.6 (*2) |
| Indoor Units | Liquid (OD) | Type | | Brazing connection |
| | | Diameter | mm | 9.5 (*1) |
| | Gas | Type | | Brazing connection |
| | | Diameter | mm | 15.9 (*1) |
| Sound absorbing thermal insulation material | | | | Foamed polyurethane, Frame resisting needle felt |
| Standard Accessories | Item | | | Installation manual |
| | | | | Accessory pipes |
| | | | | Pipe insulation tubes |
| Notes | | | | (*1) When connecting an indoor unit from capacity class 20-50, use the accessory pipes delivered with the unit (*2) When the total capacity index of the connected indoor units < 290, use the accessory pipes delivered with the unit |

| 1-2 ELECTRICAL SPECIFICATIONS | | | | BSV4Q100P7V1 |
|-------------------------------|----------------------------|--|----|--------------|
| Power Supply | Phase | | | 1~ |
| | Frequency | | Hz | 50 |
| | Voltage | | V | 220-240 |
| Voltage range | Minimum | | V | -10% |
| | Maximum | | V | +10% |
| Total circuit | Minimum circuit amps (MCA) | | A | 0.4 |
| | Maximum Fuse Amps | | A | 10 |

2 Safety device settings

| | |
|--------------|----------------------------------|
| BSV4Q100P | |
| Model | Safety devices |
| BVS4Q100P7V1 | PC board fuse 250V 3.15A (4x) |

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3 Dimensional Drawing & centre of gravity

3-1 Dimensional drawing

BSV4Q100P

| Nr | Name | Description | Nr | Name | Description |
|----|-----------------------------------|------------------------------|----|---|--|
| 1 | Suction gas pipe connection port. | ø 28.60mm brazing connection | 9 | Grounding terminal | M4 |
| 2 | HP/LP gas pipe connection port. | ø 19.10mm brazing connection | 10 | Nameplate | |
| 3 | Liquid pipe connection port. | ø 12.70mm brazing connection | 11 | Reducers (outdoor connection) (see note 4) | ø 28.60mm -> ø 22.20mm brazing connection |
| 4 | Gas pipe connection port | ø 15.90mm brazing connection | | | ø 22.20mm -> ø 19.10mm brazing connection |
| 5 | Liquid pipe connection port | ø 9.54mm brazing connection | | | ø 22.20mm -> ø 15.90mm brazing connection |
| 6 | Common electric component box | | | | ø 19.10mm -> ø 15.90mm brazing connection |
| 7 | Individual electric component box | | 12 | Reducers (indoor connection) (see note 3) | ø 19.10mm -> ø 12.70mm brazing connection |
| 8 | Suspension brackets | M8-M10 | | | ø 12.70mm -> ø 9.52mm brazing connection |
| | | | | | ø 15.90mm -> ø 12.70mm (4x) brazing connection |
| | | | | | ø 9.52mm -> ø 6.35mm (4x) brazing connection |

NOTE

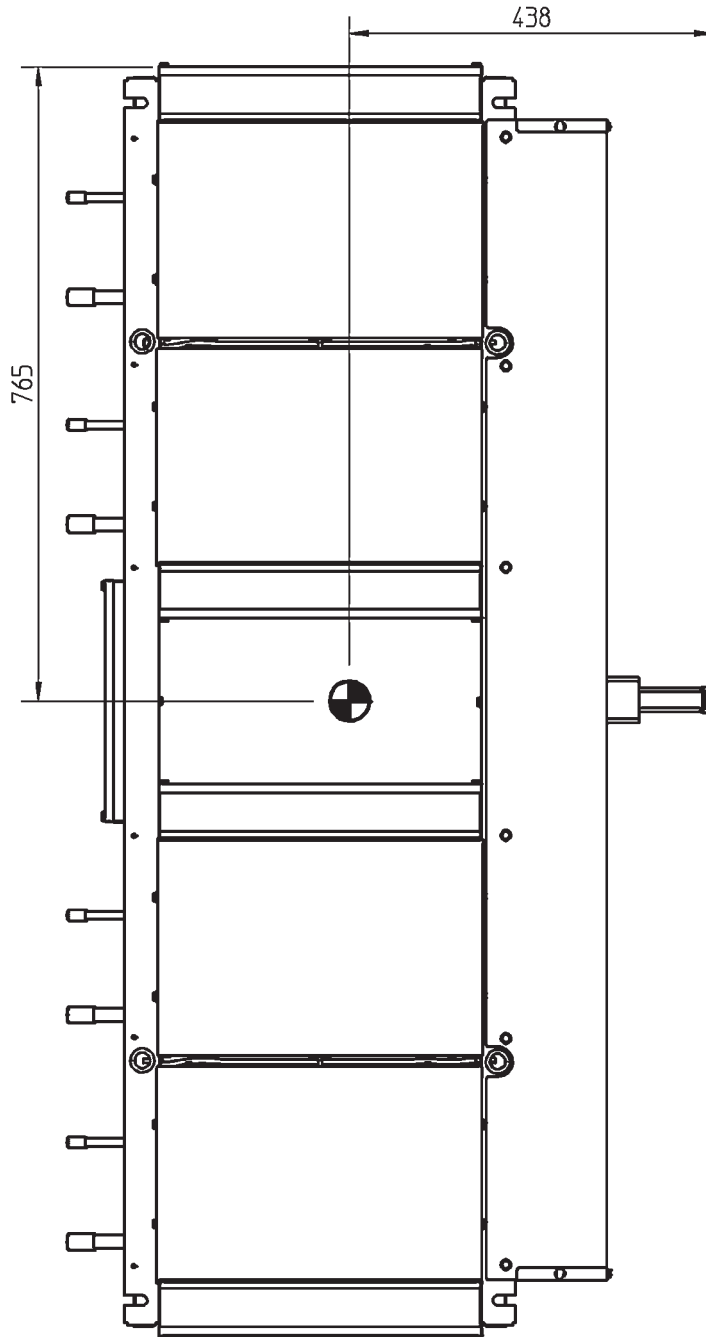
- Inside the hatching area: service space.
- If reducers need to be used, service space shall be 300 or more.
- Indicated reducers are only used in case of connection with a 20~50 class indoor unit.
- Indicated reducers are used depending on downstream capacity class. (refer to installation manual)
- A small refrigerant sound will be made. Do not install this unit in a noise sensitive place such as a bedroom.

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3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity

BSV4Q100P



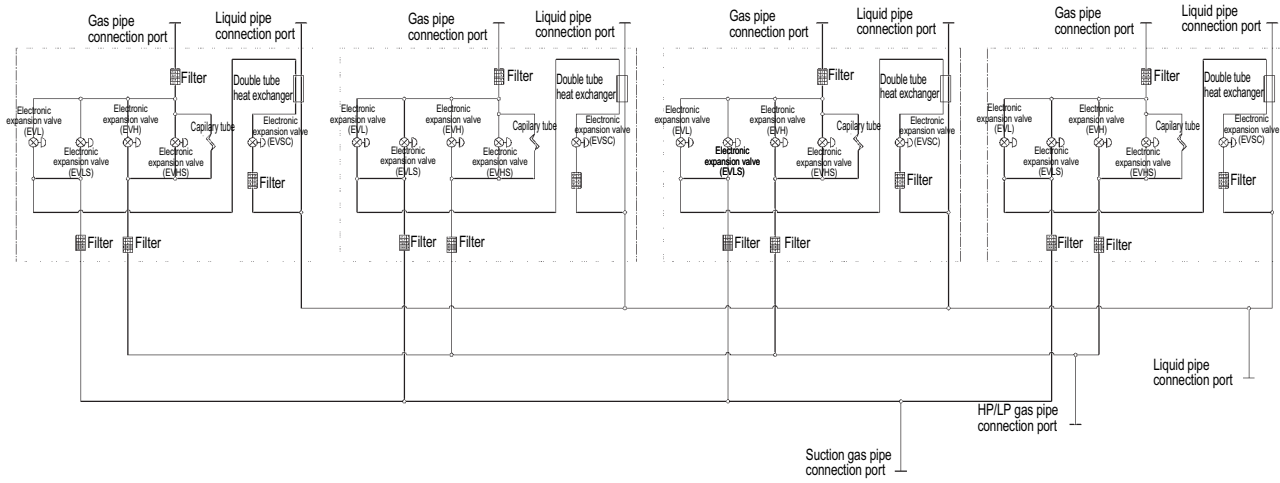
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4 Piping diagram

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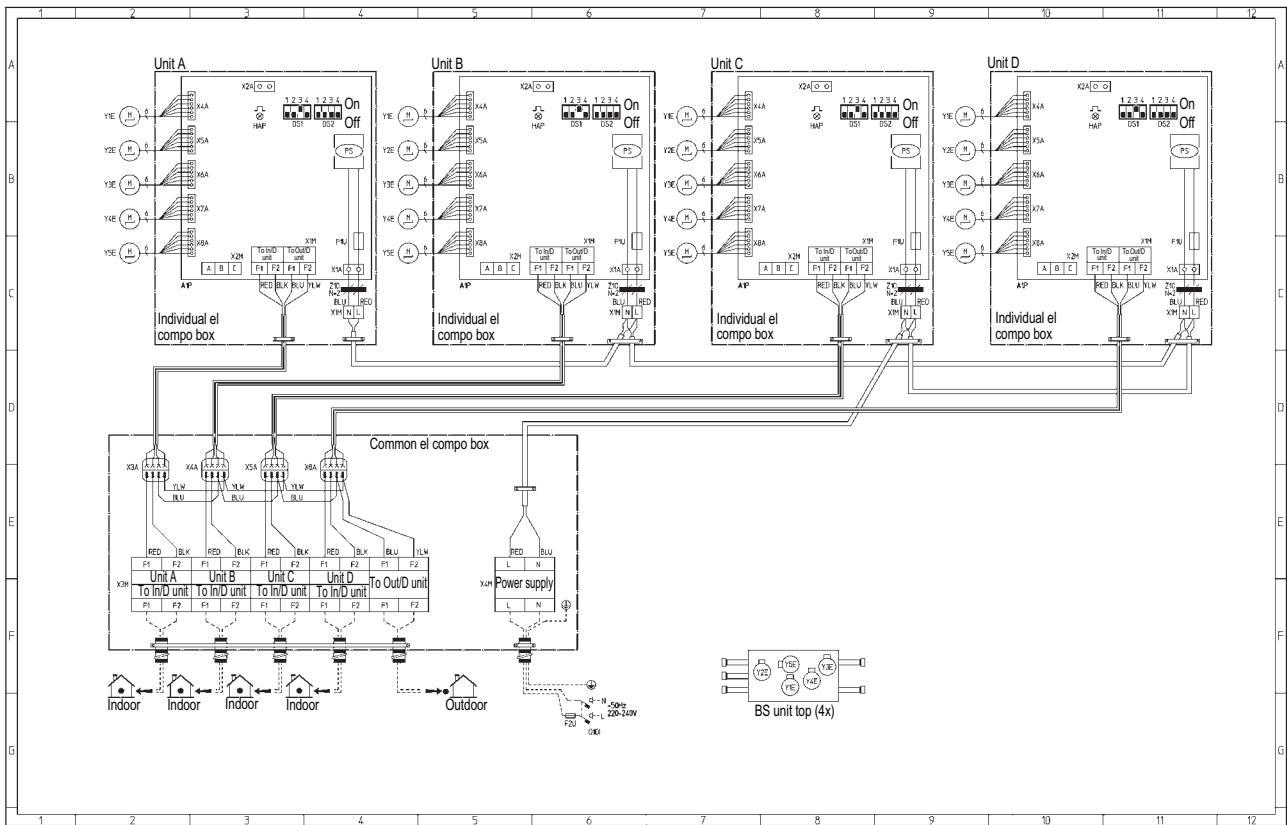
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5 Wiring diagram

5 - 1 Wiring diagram

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BSV4Q100P



| | | | | | |
|----------|--|-----------|---|-------|--|
| A1P | Printed circuit board | X1M | Terminal strip (power) (individual el compo box) | Y4E | Electronic expansion valve (main discharge) |
| DS1, DS2 | DIP switch | X1M (A1P) | Terminal strip (control) (individual el compo box) | Y5E | Electronic expansion valve (main suction) |
| F1U | Fuse (T, 3.15A, 250V) | X2M (A1P) | Terminal strip (C/H selector) (individual el compo box) | Z1C | Noise filter (ferrite core) |
| F2U | Field fuse | X3M | Terminal strip (control) (common el compo box) | X3-6A | Connector (communication) |
| HAP | Light emitting diode (Service monitor-green) | X4M | Terminal strip (power) (common el compo box) | X7-9A | Connector (power supply) (WHT) |
| PS | Switching power supply (A1P) | Y1E | Electronic expansion valve (sub cool) | | Connector for optional parts |
| Q1DI | Earth leak detector | Y2E | Electronic expansion valve (sub discharge) | X2A | Connector (wiring external control adapter for outdoor unit) |
| | | Y3E | Electronic expansion valve (sub suction) | | |

- : Terminal strip
- ⊗⊗ : Connection
- : Relay_connector
- : Terminal
- ⊕ : Protective earth (screw)
- L: Live
- N: Neutral
- Colors: RED: Red
- BLK: Black
- WHT: White
- YLW: Yellow
- Blu: Blue

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NOTES

- This wiring diagram applies to the BSV4Q.
- When using the cool/heat selector (optional accessory), connect it to terminals A,B and C on X2M (each individual el compo box).
- As for wiring to the In/D unit (F1), (F2) and Out/D unit (F1), (F2) on X3M, refer to the installation manual.
- Use copper conductors only.
- DIP switches (DS1, DS2) initial settings are as shown on the drawing for using DIP switches (DS1, DS2), refer to installation manual.

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VRV III
VRV VII

In all of us,
a green heart



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 intension 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.



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.



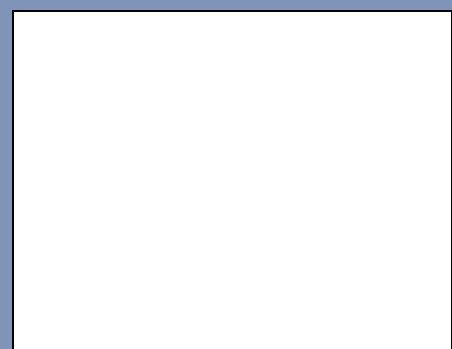
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