

1. SPECIFICATIONS

BC controller

BC controller

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|---|-----------------------------|----------|--|---|--|
| Model | | | CMB-P1016V-KA1 | | |
| Number of branch | | | 16 | | |
| Power source | | | 1-phase 220-230-240 V | | |
| | | | 50Hz | 60Hz | |
| Power input | Cooling | kW | 0.246/0.279/0.312 | | 0.198/0.222/0.246 |
| | Heating | kW | 0.119/0.135/0.151 | | 0.096/0.108/0.119 |
| Current input | Cooling | A | 1.12/1.22/1.30 | | 0.90/0.97/1.03 |
| | Heating | A | 0.55/0.59/0.63 | | 0.44/0.47/0.50 |
| External finish | | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) | | |
| Connectable outdoor/heat source unit capacity | | | P200 to P1100 | | |
| Indoor unit capacity connectable to 1 branch | | *13 | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81.) | | |
| External dimension H x W x D | | mm | 250 x 1,135 x 622 | | |
| | | in. | 9-7/8 x 44-11/16 x 24-1/2 | | |
| Refrigerant piping diameter | To outdoor/heat source unit | | Connectable unit capacity | High press. pipe | Low press. Pipe |
| | | | mm (in.) O.D. | P200 | 15.88 (5/8) Brazed |
| | | | mm (in.) O.D. | P250/P300 | 19.05 (3/4) Brazed |
| | | | *14 mm (in.) O.D. | P350 | 19.05 (3/4) Brazed or 22.2 (7/8) Brazed |
| | | | mm (in.) O.D. | P400 to P500 | 22.2 (7/8) Brazed |
| | | | *14 mm (in.) O.D. | P550 | 22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed |
| | | | *14 mm (in.) O.D. | P600 | 22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P650 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P700 to P800 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P850 to P1000 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P1050 to P1100 | 34.93 (1-3/8) Brazed |
| | To indoor unit | | Liquid pipe | | Gas pipe |
| | | | mm (in.) O.D. | Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed | Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.) |
| | To other BC controller | | Total down-stream Indoor unit capacity | High press. pipe | Liquid pipe |
| | | | mm (in.) O.D. | to P200 | 15.88 (5/8) Brazed |
| | | | mm (in.) O.D. | P201 to P300 | 19.05 (3/4) Brazed |
| | | | mm (in.) O.D. | P301 to P350 | 19.05 (3/4) Brazed |
| | | | mm (in.) O.D. | P351 to P400 | 22.2 (7/8) Brazed |
| | | | mm (in.) O.D. | P401 to P600 | 22.2 (7/8) Brazed |
| | | | mm (in.) O.D. | P601 to P650 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P651 to P800 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P801 to P1000 | 28.58 (1-1/8) Brazed |
| | | | mm (in.) O.D. | P1001 or above | 34.93 (1-3/8) Brazed |
| Field drain pipe size | | mm (in.) | O.D. 32 (1-1/4) | | |
| Net weight | | kg (lbs) | 69 (153) | | |
| Sound power level (measured in anechoic room) | Rated operation | dB <A> | 66 | | |
| | Defrost | dB <A> | 73 | | |
| Sound pressure level (measured in anechoic room) | Rated operation | dB <A> | 48 | | |
| | *15 Defrost | dB <A> | 55 | | |
| Accessories | | | Drain Connection pipe, Washer, Tie band | | |
| Remarks | | | | | |

Notes:

- 1.Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
- 2.The equipment is for R410A refrigerant.
- 3.Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
- 4.Sound pressure/power level differs depending on the connected outdoor/heat source unit capacity or operation condition. The sound pressure/power level at the rated operation is the value of the cooling mode.
- 5.The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
- 6.The sound pressure level values were obtained at the location below 1.5m from the unit.
- 7.The solenoid valve switching sound is 56 dB (sound pressure level) regardless of the unit model.
- 8.Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)
- 9.Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
- 10.This unit is not designed for outside installations.
- 11.When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- 12.The ambient relative humidity of the BC controller needs to be kept below 80%.
- 13.Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
- 14.For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.
- 15.The sound pressure level measured by the conventional method in JIS for reference purpose.