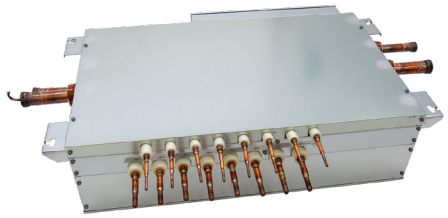
CITYMULTI®

# CMB-P108NU-JA2
## 8 BRANCH (MAIN BC)

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:

System Reference: Date:



GENERAL FEATURES

- Provides simultaneous heating and cooling
- Used with Air Source or Water Source outdoor units
- Main BC is for larger systems that require the use of Sub BC Controllers

| Specifications | | | System |
|---|---|---|---|
| Unit Type | | | CMB-P108NU-JA2 |
| Indoor Unit Capacity Connectable to 1 Branch | | BTU/H | 54,000 |
| Number Of Branches | | | 8 |
| Electrical Power Requirements | | | 208/230V, 1-phase, 60 Hz |
| Minimum Circuit Ampacity (MCA) | | A | 0.8/1.0 |
| Maximum Overcurrent Protection (MOCP) | | A | 20 |
| Power Input (208/230V) | Cooling | kW | 0.66 / 0.77 |
| | Heating | kW | 0.37 / 0.43 |
| Current Input (208/230V) | Cooling | A | 0.137 / 0.176 |
| | Heating | A | 0.076 / 0.098 |
| External Dimensions | | In. [mm] | 9-7/8 x 35-7/8 x 21-1/2 [250 x 911 x 545] |
| Net Weight | | Lbs. [kg] | 106 [48] |
| External finish | | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) |
| Connectable Outdoor / Heat Source Unit Capacity | | | 72,000 to 336,000 |
| Field drain pipe size | | In. [mm] | 3/4 NPT |
| Refrigerant | | | R410A |
| Sound power level (measured in anechoic room) | Defrost | dB(A) | 50 |
| Sound pressure level (measured in anechoic room) | Rated operation | dB(A) | 68.0 |
| | Defrost | dB(A) | 74 |

NOTES:

1. The equipment is for use with R410A refrigerant only.
2. When possible, avoid installing the BC controller within 15 Ft. of sound sensitive areas.
3. Rated operation sound data is based on cooling mode. Sound data may vary depending on outdoor unit capacity and operation mode.
4. Sound pressure/power levels obtained via testing in an anechoic chamber. Actual sound pressure levels may be greater due to ambient noise and/or deflection
5. Sound pressure values were obtained at a test location approximately 5 Ft. from the unit
6. The solenoid valve switching sound pressure value is 56 dB(A) for all units
7. The unit is intended for installation in an indoor environment only
8. For details regarding installation specifics, please refer to the product's Installation Manual.

Specifications are subject to change without notice.

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# INDOOR UNIT ACCESSORIES: CMB-P108NU-JA2

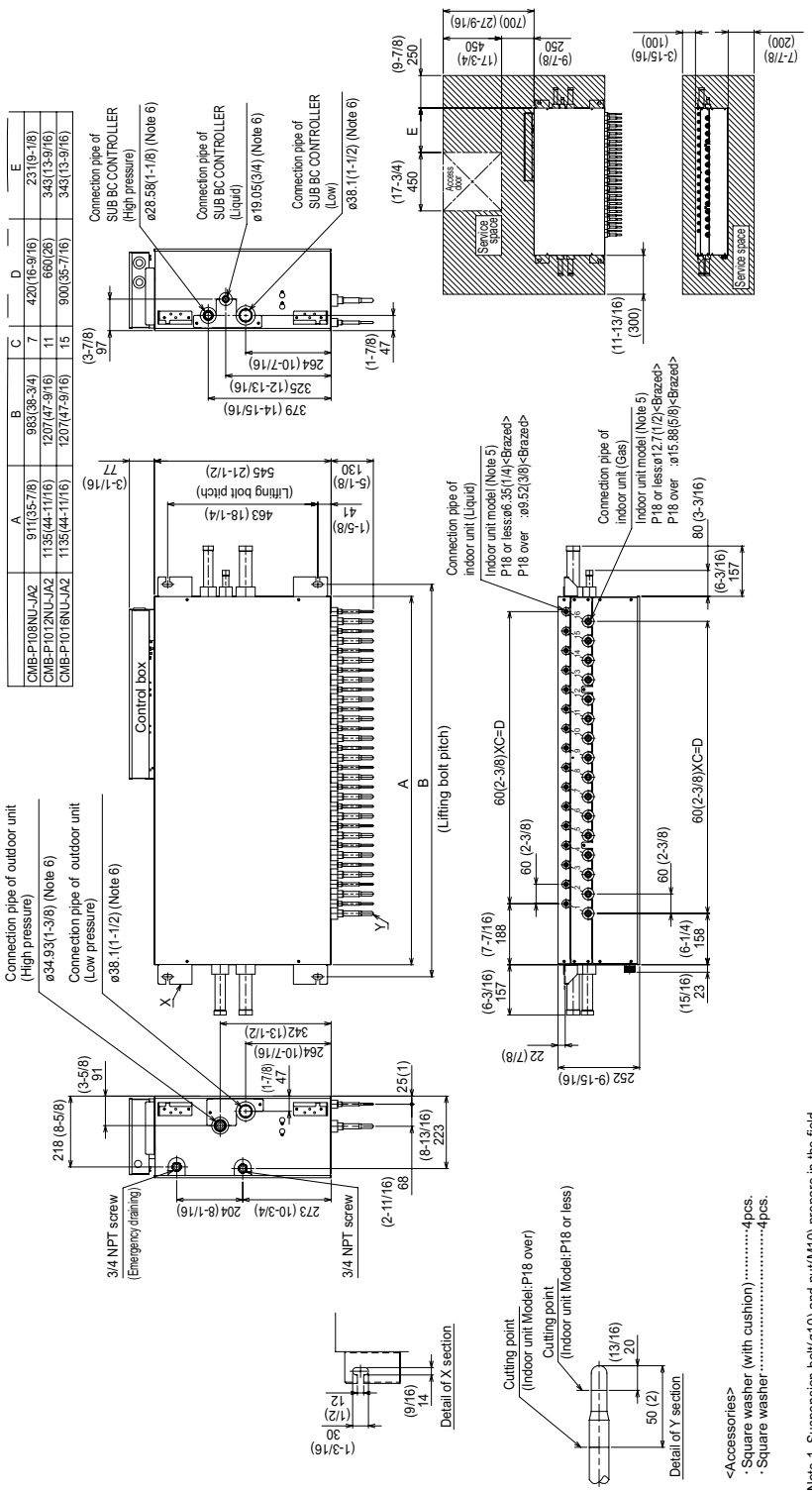
| | | |
|---|---|---|
| Ball Valve | Ball Valve (3/8” SAE Brazed) | ☐ BV38BBSI |
| | Ball Valve (5/8” SAE Brazed) | ☐ BV58BBSI |
| Condensate | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | ☐ X87-721 |
| | Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H | ☐ X86-003 |
| | Sauermann Condensate Pump | ☐ SI30-230 |
| Control Wire | M-Net Control Wire, 1,000’ Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated) | ☐ CW162S-1000 |
| | M-Net Control Wire, 250’ Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated) | ☐ CW162S-250 |
| Port Adaptor | Joint Pipe Adapter | ☐ CMY-R160-J1 |
| Valves Adaptors & Headers | Branch Joint (Downstream capacity 127,000-216,000 BTU/H) | ☐ CMY-R202S-G |
| | Branch Joint (Downstream capacity 217,000-234,000 BTU/H) | ☐ CMY-R203S-G |
| | Branch Joint (Downstream capacity 235,000-360,000 BTU/H) | ☐ CMY-R204S-G |
| | Branch Joint (Downstream capacity 73,000-96,000 BTU/H) | ☐ CMY-Y102LS-G2 |
| | Branch Joint (Downstream capacity ≤126,000 BTU/H) | ☐ CMY-R201S-G |
| | Branch Joint (Downstream capacity ≤126,000 BTU/H) | ☐ CMY-Y202S-G2 |
| | Branch Joint (Downstream capacity ≤72,000 BTU/H) | ☐ CMY-Y102SS-G2 |
| | Branch Joint (Downstream capacity ≥316,000 BTU/H) | ☐ CMY-R205S-G |
| | Reducer (Between Main and Sub BC) | ☐ CMY-R303S-G1 |
| | Reducer (Between ODU and BC) | ☐ CMY-R302S-G1 |

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# INDOOR UNIT DIMENSIONS: CMB-P108NU-JA2

Unit: mm (in)




| | A | B | C | D | E |
|---|---|---|---|---|---|
| CMB-P108NU-JA2 | 911(35-7/8) | 983(38-3/4) | 7 | 420(16-9/16) | 231(9-1/8) |
| CMB-P1012NU-JA2 | 1135(44-11/16) | 1207(47-9/16) | 11 | 660(26) | 343(13-9/16) |
| CMB-P1016NU-JA2 | 1135(44-11/16) | 1207(47-9/16) | 15 | 900(35-7/16) | 343(13-9/16) |

Table-1. To outdoor/heat source unit (Note.6)

| Connectable unit capacity | High press. Pipe | Low press. Pipe | |
|---|---|---|---|
| P72 | ø15.88(5/8) | ø19.05(3/4) | |
| P96 | ø19.05(3/4) | ø22.2(7/8) | |
| P120 | ø19.05(3/4) | ø22.2(7/8) or ø28.58(1-1/8) | * |
| P144 to P192 | ø22.2(7/8) | ø28.58(1-1/8) | |
| P216 | ø22.2(7/8) or ø28.58(1-1/8) | ø28.58(1-1/8) | * |
| P240 | ø22.2(7/8) or ø28.58(1-1/8) | ø34.93(1-3/8) | * |
| P264 to P288 | ø28.58(1-1/8) | ø34.93(1-3/8) | |
| P312 | ø28.58(1-1/8) | ø34.93(1-3/8) or ø41.28(1-5/8) | * |
| P336 | ø28.58(1-1/8) | ø41.28(1-5/8) | |

*For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

Table-2. To other BC controller (Note.6)

| Total downstream indoor unit capacity | High press. Pipe | Liquid Pipe | Low press. Pipe |
|---|---|---|---|
| ~P72 | ø15.88(5/8) | ø9.52(3/8) | ø19.05(3/4) |
| P73~108 | ø19.05(3/4) | ø9.52(3/8) | ø22.2(7/8) |
| P109~126 | ø19.05(3/4) | ø12.7(1/2) | ø28.58(1-1/8) |
| P127~144 | ø22.2(7/8) | ø12.7(1/2) | ø28.58(1-1/8) |
| P145~216 | ø22.2(7/8) | ø15.88(5/8) | ø28.58(1-1/8) |
| P217~234 | ø28.58(1-1/8) | ø15.88(5/8) | ø28.58(1-1/8) |
| P235~288 | ø28.58(1-1/8) | ø19.05(3/4) | ø34.93(1-3/8) |
| P289~ | ø28.58(1-1/8) | ø19.05(3/4) | ø41.28(1-5/8) |

Note 1. Suspension bolt(ø10) and nut(M10) prepare in the field.
2. Take notice of service space as shown.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Please take service space for connection pipe of SUB BC CONTROLLER.
4. 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.)
5. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.
6. Refer to the Table-1,2 connection pipe of outdoor unit or SUB BC CONTROLLER diameter size.
7. Refer to the Installation Manual for insulation of connection pipe and drain piping.
8. Do not place the BC controller directly on the floor.

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