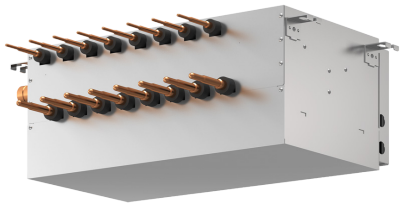
# Main BC Controller: CMB-P1013NU-GA1



| Job Name: | |
|---|---|
| System Reference: | Date: |



SAMPLE IMAGE FOR REFERENCE

## ACCESSORIES:

- ☐ Joint Kit.....CMY-R160-J1
- ☐ Branch Joint (T-Branch).....CMY-Y102SS-G2
- ☐ Condensate Pump (BlueDiamond).....X87-721
- ☐ Condensate Pump (Sauermann).....SI3100-230
- ☐ Ball Valve (3/8" SAE Brazed).....BV38BBSI
- ☐ Ball Valve (5/8" SAE Brazed).....BV58BBSI
- ☐ Sub BC Controller.....CMB-1016NU-HB1*
- ☐ Sub BC Controller.....CMB-104NU-GB1*
- ☐ Sub BC Controller.....CMB-108NU-GB1*

*See Submittal for information on each option.

## SPECIFICATIONS:

| | | |
|---|---|---|
| Indoor Unit Capacity Connectable To 1 Branch | Btu/h | 54,000 |
| Number Of Branches | 13 | |
| **Electrical Requirements** | | |
| Electrical Power Requirements | 208 / 230V, 1 phase, 60Hz | |
| Minimum Circuit Ampacity (MCA) | A | 1.08 / 0.97 |
| **Power Input (208 / 230V)** | | |
| Cooling | kW | 0.178 |
| Heating | | 0.086 |
| **Current Input (208 / 230V)** | | |
| Cooling | A | 0.86 / 0.77 |
| Heating | | 0.41 / 0.37 |
| External Dimensions | In.(mm) | 11-13/32 x 43-23/32 x 20-1/2 (289 x 1,110 x 520) |
| Net Weight | Lbs.(kg) | 148 (67) |
| External Finish | Galvanized steel plate | |

**Refrigerant Piping Diameter to Indoor Unit (Brazed)**

| | | Liquid | Gas |
|---|---|---|---|
| less than 18,000 Btu/h | In.(mm) | 1/4 (6.35) | 1/2 (12.7) |
| 18,000 to 54,000 Btu/h | In.(mm) | 3/8 (9.52) | 5/8 (15.88) |
| 54,000 to 72,000 Btu/h | In.(mm) | 3/8 (9.52) | 3/4 (19.05) |
| greater than 72,000 Btu/h | In.(mm) | 3/8 (9.52) | 7/8 (22.2) |

**Refrigerant Piping Diameter to Air-source Outdoor Units (Brazed)**

| | | High Pressure | Low Pressure |
|---|---|---|---|
| to 72,000 Btu/h | In.(mm) | 5/8 (15.88) | 3/4 (19.05) |
| 73,000 to 108,000 Btu/h | In.(mm) | 3/4 (19.05) | 7/8 (22.2) |
| 109,000 to 126,000 Btu/h | In.(mm) | 3/4 (19.05) | 1-1/8 (28.58) |
| 127,000 to 192,000 Btu/h | In.(mm) | 7/8 (22.2) | 1-1/8 (28.58) |
| 193,000 to 216,000 Btu/h | In.(mm) | 1-1/8 (28.58) | 1-1/8 (28.58) |
| 217,000 to 240,000 Btu/h | In.(mm) | 1-1/8 (28.58) | 1-3/8 (34.93) |

**Refrigerant Piping Diameter to Water-source Units (Brazed)**

| | | High Pressure | Low Pressure |
|---|---|---|---|
| to 72,000 Btu/h | In.(mm) | 5/8 (15.88) | 3/4 (19.05) |
| 73,000 to 108,000 Btu/h | In.(mm) | 3/4 (19.05) | 7/8 (22.2) |
| 109,000 to 126,000 Btu/h | In.(mm) | 3/4 (19.05) | 1-1/8 (28.58) |
| 127,000 to 192,000 Btu/h | In.(mm) | 7/8 (22.2) | 1-1/8 (28.58) |
| 193,000 to 240,000 Btu/h | In.(mm) | 1-1/8 (28.58) | 1-1/8 (28.58) |

**Refrigerant Piping Diameter to Sub BC Controller (Brazed)**

| | | Liquid | High Pressure | Low Pressure |
|---|---|---|---|---|
| to 72,000 Btu/h | In.(mm) | 3/8 (9.52) | 5/8 (15.88) | 3/4 (19.05) |
| 73,000 to 108,000 Btu/h | In.(mm) | 3/8 (9.52) | 3/4 (19.05) | 7/8 (22.2) |
| 109,000 to 126,000 Btu/h | In.(mm) | 1/2 (12.7) | 3/4 (19.05) | 1-1/8 (28.58) |

| | | |
|---|---|---|
| Field Drain Pipe Size | In.(mm) | 1-1/4 (32) |
| Refrigerant | R410A | |
| Connectable Outdoor Unit | PURY-P-T(S)K/LMU<br>PURY-P-Y(S)K/LMU<br>PURY-HP-T(S)KMU<br>PURY-HP-Y(S)KMU<br>PQRY-P-T(S)H/LMU<br>PQRY-P-Y(S)H/LMU | |

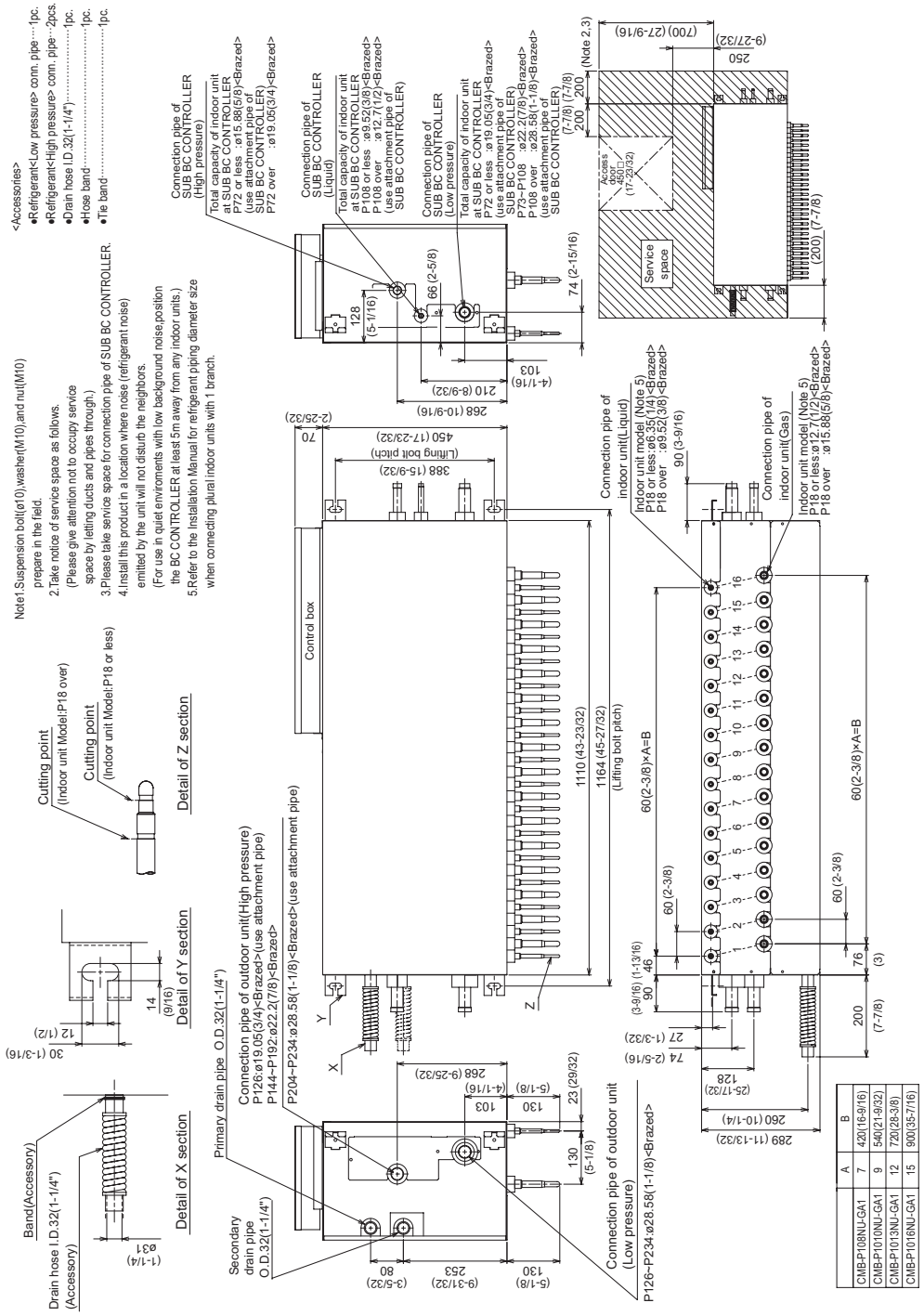
NOTES:
1. Use Single BC Controller when R2-Series unit capacity is 120,000 Btu/h or less.
2. Use the Reducer (standard accessory) when the indoor unit capacity is 18,000 Btu/h or less.
3. Use Ball Valves to isolate individual branches (recommended).
4. Use Joint Pipe to combine branches when connected indoor unit capacity on a single branch exceeds 54,000 Btu/h.



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# Model: CMB-P1013NU-GA1 – DIMENSIONS

Units: mm (in.)




| | A | B |
|---|---|---|
| CMB-P108NU-GA1 | 7 | 420(16-9/16) |
| CMB-P1010NU-GA1 | 9 | 540(21-9/32) |
| CMB-P1013NU-GA1 | 12 | 720(28-3/8) |
| CMB-P1016NU-GA1 | 15 | 900(35-7/16) |


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Form# CMB-P1013NU-GA1 - 201805



Specifications are subject to change without notice.

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