

Job Name: _____

Location: _____

Drawing Reference: _____

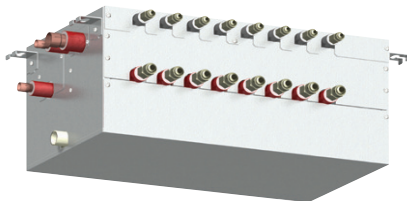
Schedule No. _____

System No.: _____

Date: _____

MAIN BC CONTROLLER FEATURES

- R410A refrigerant
- Used for R2-Series outdoor units and WR2-Series water-source units with R410A refrigerant
- Each branch supports 54,000 Btu/h or less
- Reducer is necessary for indoor units that are 18,000 Btu/h or less
- Option of connecting up to two Sub (-GB) BC Controllers



MAIN BC CONTROLLER SPECIFICATIONS

Power

Power Source	 208 / 230V, 1 phase, 60Hz
Power Input	
Cooling	 0.112 kW/h
Heating	 0.053 kW/h
Current	
Cooling (208 / 230)	 0.54 / 0.49 A
Heating (208 / 230)	 0.25 / 0.23 A
Minimum Circuit Ampacity (MCA)	 0.85 A
Maximum Overcurrent Protection (MOCP)	 15 A

External Finish Galvanized Steel Plate
 Lower Drain Pan: Pre-coated Galvanized Sheets
 with Powder Coating

External Dimensions

Inches 11-7/16 h x 43-3/4 w x 20-1/2 d
 mm 289 h x 1,110 w x 520 d

Net Weight 122 lbs. / 55 kg

Number of Branches 8

Indoor Unit Capacity

Connectable to one Branch

- Model P54 or smaller
- Use optional port connector combining two branches when the total unit capacity exceeds 55,000 Btu/h.
- Use the reducer (standard accessory) when an indoor unit of 18,000 Btu/h or smaller is connected.

Refrigerant R410A

Refrigerant Piping Diameter

To Outdoor and Water-source Units

P72

High Pressure Pipe 5/8" / 15.88 mm Braze
 Low Pressure Pipe 3/4" / 19.05 mm Braze

P96

High Pressure Pipe 3/4" / 19.05 mm Braze
 Low Pressure Pipe 7/8" / 22.2 mm Braze

P120

High Pressure Pipe 3/4" / 19.05 mm Braze
 Low Pressure Pipe 1-1/8" / 28.58 mm Braze

P144/P168/P192

High Pressure Pipe 7/8" / 22.2 mm Braze
 Low Pressure Pipe 1-1/8" / 28.58 mm Braze

P216/P240

High Pressure Pipe 1-1/8" / 28.58 mm Braze
 Low Pressure Pipe 1-1/8" / 28.58 mm Braze

To Indoor Unit

Liquid Pipe 3/8" / 9.52 mm Flare
 (1/4" / 6.35 mm with attached reducer used)

Gas Pipe 5/8" / 15.88 mm Flare
 (1/2" / 12.7 mm with attached reducer used,
 3/4" / 19.05 mm and 7/8" / 22.2 mm
 with optional port connector used)

To Sub BC Controller

Total indoor unit capacity ≤ 72,000 Btu/h connected to this
 Sub BC Controller

High Pressure Pipe 5/8" / 15.88 mm Braze
 Low Pressure Pipe 3/4" / 19.05 mm Braze
 Liquid Pipe 3/8" / 9.52 mm Braze

Total indoor unit capacity between 73,000 and 108,000 Btu/h
 connected to this Sub BC Controller

High Pressure Pipe 3/4" / 19.05 mm Braze
 Low Pressure Pipe 7/8" / 22.2 mm Braze
 Liquid Pipe 3/8" / 9.52 mm Braze

Total indoor unit capacity between 109,000 and 126,000
 Btu/h connected to this Sub BC Controller

High Pressure Pipe 3/4" / 19.05 mm Braze
 Low Pressure Pipe 1-1/8" / 28.58 mm Braze
 Liquid Pipe 1/2" / 12.7 mm Braze

Drainpipe O.D. 1-1/4" / 32 mm

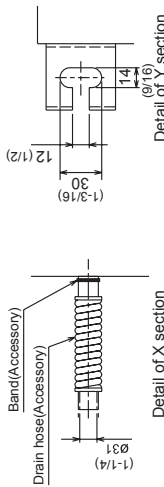
OPTIONS

- ☐ Joint Adapter (Port connector) CMY-R160-J
- ☐ Branch Joint (T-Branch) CMY-Y102S-G2

Model: CMB-P108NU-GA – DIMENSIONS

- <Accessories>
- Refrigerant<High pressure> conn. pipe.....2pcs.
 - Reducer<Large/Small>.....Quantity for all connections
 - Drain hose.....1pc.
 - Hose band.....1pc.
 - Tie band.....1pc.
- Note 1. Suspension bolt(φ10), washer(M10) and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Please take space to connect SUB BC CONTROLLER.

	A	B
CMB-P108NU-GA	7	420(16-9/16)
CMB-P1010NU-GA	9	540(21-1/8)
CMB-P1013NU-GA	12	720(28-3/8)
CMB-P1016NU-GA	15	900(35-7/16)

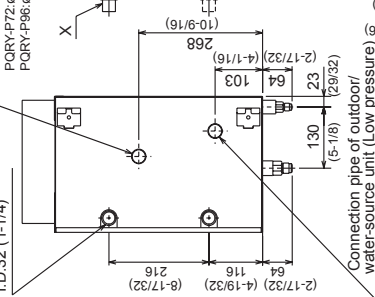


Connection pipe of outdoor/water-source unit(High pressure)

- PURY-P72: φ15.88(5/8)<Brazed>(Reducer is field supplied)
- PURY-P96: φ108.0(4-1/8)<Brazed>(Reducer is field supplied)
- PURY-P126: φ19.05(3/4)<Brazed>(Reducer is field supplied)
- PURY-P144: φ16.8(5/8)<Brazed>(Reducer is field supplied)
- PURY-P204: φ21.6(7/8)<Brazed>(Reducer is field supplied)
- PURY-P72: φ15.88(5/8)<Brazed>(Reducer is field supplied)
- PURY-P96: φ108.0(4-1/8)<Brazed>(Reducer is field supplied)
- PURY-P126: φ19.05(3/4)<Brazed>(Reducer is field supplied)
- PURY-P144: φ16.8(5/8)<Brazed>(Reducer is field supplied)
- PURY-P204: φ21.6(7/8)<Brazed>(Reducer is field supplied)

Detail of X section

Drain piping I.D.32 (1-1/4)

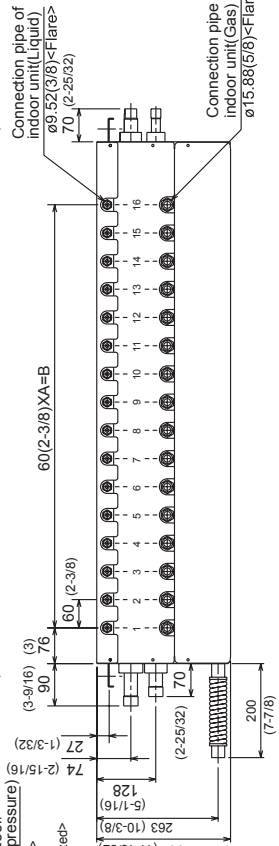


Connection pipe of outdoor/water-source unit (Low pressure)

- PURY-P72: φ19.05 (3/4) <Brazed> (Reducer is field supplied)
- PURY-P96: φ108.0(4-1/8) <Brazed> (Reducer is field supplied)
- PURY-P126: φ19.05 (3/4) <Brazed> (Reducer is field supplied)
- PURY-P144: φ16.8 (5/8) <Brazed> (Reducer is field supplied)
- PURY-P204: φ21.6 (7/8) <Brazed> (Reducer is field supplied)

Connection pipe of indoor unit(Liquid)

Connection pipe of indoor unit(Gas)



Unit : mm(in)



Certificate Number FM33568

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality warranties as stipulated by the ISO. ISO 9001 certifies quality warranties for the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



Certificate Number EC97J1227

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).



Specifications are subject to change without notice.

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