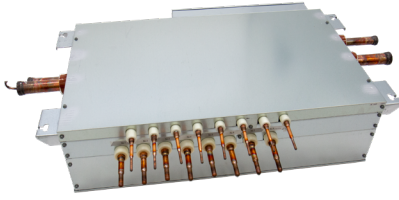


Job Name:  
System Reference:

Date:



**ACCESSORIES**

Branch Joint (Downstream capacity ≤72,000 Btu/h)	CMY-Y102SS-G2*
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 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 ≥316,000 Btu/h)	CMY-R205S-G*
Condensate Pump (Blue Diamond)	X87-721
Condensate Pump (Sauer mann)	SI3100-230
Ball Valve (3/8" SAE Brazed)	BV38BBSI
Ball Valve (5/8" SAE Brazed)	BV58BBSI
Reducer (Between ODU and BC)	CMY-R302S-G1*
Reducer (Between Main and Sub BC)	CMY-R303S-G1

\*See Data Book or Install Manual for more details

**SPECIFICATIONS**

<b>Indoor Unit Capacity Connectable to 1 Branch</b>	Btu/h	54,000
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<b>Number Of Branches</b>	8
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Electrical Requirements		
Electrical Power Requirements	208 / 230V, 1 phase, 60Hz	
Minimum Circuit Ampacity (MCA)	A	0.83 / 0.97
Maximum Overcurrent Protection (MOCP)	A	15

Power Input (208 / 230V)		
Cooling	kW	0.137 / 0.176
Heating		0.076 / 0.098

Current Input (208 / 230V)		
Cooling	A	0.66 / 0.77
Heating		0.37 / 0.43

<b>External Dimensions</b>	In. (mm)	9-7/8 x 35-7/8 x 21-1/2 (250 x 911 x 545)
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<b>Net Weight</b>	Lbs. (kg)	106 (48)
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<b>External finish</b>	Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
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<b>Connectable Outdoor / Heat Source Unit Capacity</b>	72,000 to 336,000
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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)
	In. (mm)	3/8 (9.52)	5/8 (15.88)
	In. (mm)	3/8 (9.52)	3/4 (19.05)
	In. (mm)	3/8 (9.52)	7/8 (22.2)

<b>Field drain pipe size</b>	In. (mm)	3/4 NPT
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<b>Refrigerant</b>	R410A
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Refrigerant Piping Diameter to Outdoor Unit (Brazed)			
		High Pressure	Low Pressure
P72	In. (mm)	5/8 (15.88)	3/4 (19.05)
P96	In. (mm)	3/4 (19.05)	7/8 (22.2)
P120	In. (mm)	3/4 (19.05)	7/8 (22.2) or 1-1/8 (28.58)
P144 to P192	In. (mm)	3/4 (19.05)	1-1/8 (28.58)
P216	In. (mm)	7/8 (22.2) or 1-1/8 (28.58)	1-1/8 (28.58)
P240	In. (mm)	7/8 (22.2) or 1-1/8 (28.58)	1-3/8 (34.93)
P264 to P288	In. (mm)	1-1/8 (28.58)	1-3/8 (34.93)
P312	In. (mm)	1-1/8 (28.58)	1-3/8 (34.93) or 1-5/8 (41.28)
P336	In. (mm)	1-1/8 (28.58)	1-5/8 (41.28)

Refrigerant Piping Diameter to other BC Controller (Brazed)				
		High Pressure	Liquid Pipe	Low Pressure Pipe
P72	In. (mm)	5/8 (15.88)	3/8 (9.52)	3/4 (19.05)
P73 to P108	In. (mm)	3/4 (19.05)	3/8 (9.52)	7/8 (22.2)
P109 to P126	In. (mm)	3/4 (19.05)	1/2 (12.7)	1-1/8 (28.58)
P127 to P144	In. (mm)	7/8 (22.2)	1/2 (12.7)	1-1/8 (28.58)
P145 to P216	In. (mm)	7/8 (22.2)	5/8 (15.88)	1-1/8 (28.58)
P217 to P234	In. (mm)	1-1/8 (28.58)	5/8 (15.88)	1-1/8 (28.58)
P235 to P288	In. (mm)	1-1/8 (28.58)	3/4 (19.05)	1-3/8 (34.93)
P289 to P360	In. (mm)	1-1/8 (28.58)	3/4 (19.05)	1-5/8 (41.28)
P361 or above	In. (mm)	1-3/8 (34.93)	3/4 (19.05)	1-5/8 (41.28)

Sound power level (measured in anechoic room)		
Rated operation	dB(A)	68
Defrost		74

Sound pressure level (measured in anechoic room)		
Rated operation	dB(A)	50
Defrost		56

**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. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
9. This unit is not designed for outside installations.
10. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
11. 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.
12. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

# Model: CMB-P108NU-JA1 - DIMENSIONS

## CMB-P108, 1012, 1016NU-JA1

Unit: mm(in)

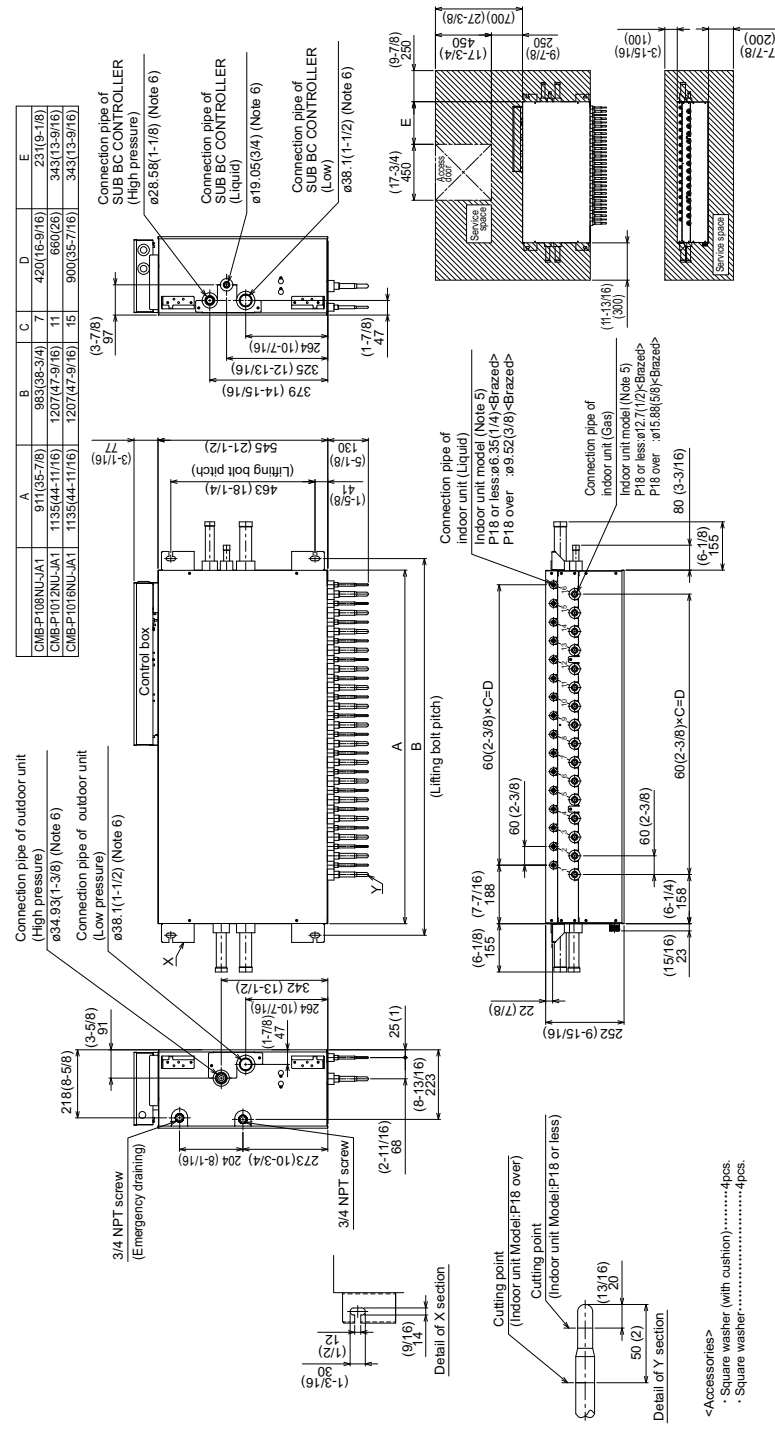


Table-2. To other BC controller (Note 6)

Total downstream indoor unit capacity	High press. Pipe	Liquid Pipe	Low press. Pipe
-P72	ø15.88(5/8)	ø6.52(3/8)	ø19.05(3/4)
P73-108	ø19.05(3/4)	ø6.52(3/8)	ø22.2(7/8)
P109-126	ø19.05(3/4)	ø12.7(1/2)	ø25.58(1-1/8)
P127-144	ø22.2(7/8)	ø12.7(1/2)	ø25.58(1-1/8)
P145-216	ø22.2(7/8)	ø15.88(5/8)	ø25.58(1-1/8)
P217-234	ø22.2(7/8)	ø15.88(5/8)	ø25.58(1-1/8)
P235-288	ø25.58(1-1/8)	ø19.05(3/4)	ø34.93(1-3/8)
P289-360	ø25.58(1-1/8)	ø19.05(3/4)	ø41.28(1-5/8)
P361--	ø34.93(1-3/8)	ø19.05(3/4)	ø41.28(1-5/8)

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) or ø25.58(1-1/8)
P120	ø19.05(3/4)	ø22.2(7/8) or ø25.58(1-1/8)
P144 to P192	ø22.2(7/8) or ø25.58(1-1/8)	ø25.58(1-1/8)
P216	ø22.2(7/8) or ø25.58(1-1/8)	ø25.58(1-1/8)
P240	ø22.2(7/8) or ø25.58(1-1/8)	ø25.58(1-1/8)
P264 to P288	ø25.58(1-1/8)	ø34.93(1-3/8)
P312	ø25.58(1-1/8)	ø41.28(1-5/8) or ø41.28(1-5/8)
P336	ø25.58(1-1/8)	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. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)  
 4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.  
 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.

BC controller

