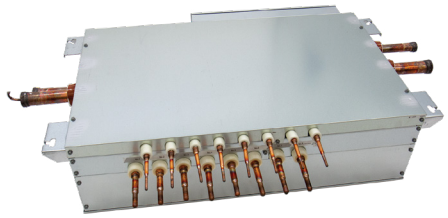
CITYMULTI®

CMB-P1012NU-JA2
12 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-P1012NU-JA2
Indoor Unit Capacity Connectable to 1 Branch		BTU/H	54,000
Number Of Branches			12
Electrical Power Requirements			208/230V, 1-phase, 60 Hz
Minimum Circuit Ampacity (MCA)		A	1.2/1.4
Maximum Overcurrent Protection (MOCP)		A	20
Power Input (208/230V)	Cooling	kW	0.95 / 0.11
	Heating	kW	0.52 / 0.60
Current Input (208/230V)	Cooling	A	0.198 / 0.255
	Heating	A	0.106 / 0.137
External Dimensions		In. [mm]	9-7/8 x 44-11/16 x 21-1/2 [250 x 1,135 x 545]
Net Weight		Lbs. [kg]	133 [60]
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-P1012NU-JA2

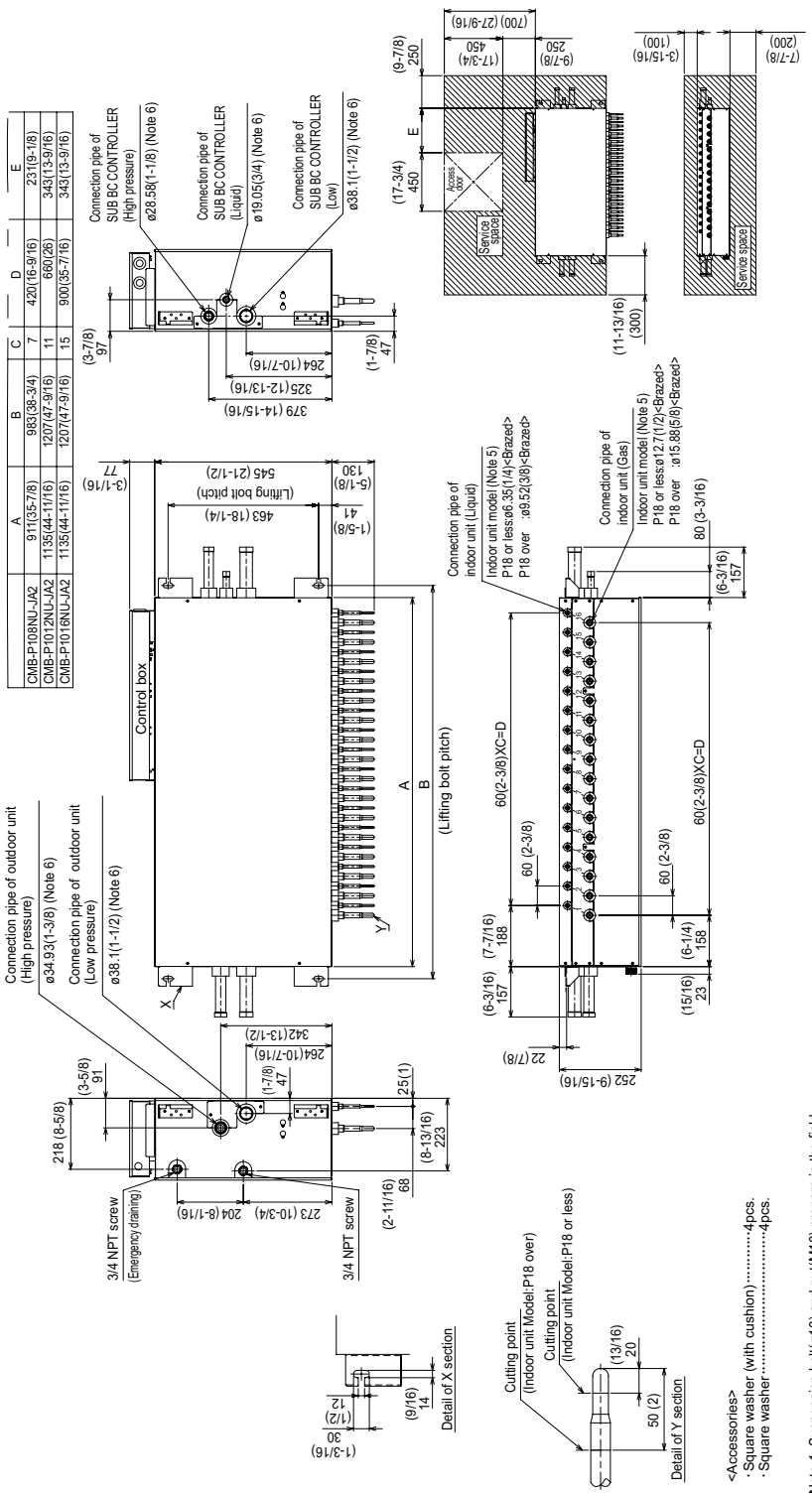
Ball Valve	Ball Valve (3/8” SAE Brazed)	☐ BV38BBSI
	Ball Valve (5/8” SAE Brazed)	☐ BV58BBSI
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	☐ X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	☐ X86-003
	Sauermann 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-P1012NU-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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