CMB-P-NU-G, NU-GA, NU-HA, NU-GB, NU-HB

1. SPECIFICATIONS BC-2
2. EXTERNAL DIMENSIONS BC-12
3. ELECTRICAL WIRING DIAGRAMS BC-17
4. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS BC-27
CMB-P105, 1016NU-G1 (Single) BC-27
CMB-P1013 (Main) BC-28
CMB-P104, P108NU-GB1 (Sub) BC-28
CMB-P108, P1010, P1016NU-HA1 (Main) BC-29
CMB-P1016NU-HB1 (Sub) BC-29
5. SOUND PRESSURE LEVELS BC-30
5-1. BC Controller Steady State Sound Pressure BC-30
5-2. BC Controller Solenoid Switching Sound Pressure BC-31
5-3. BC Controller Defrost Sound Pressure BC-32
6. OPTIONAL PARTS BC-33
6-1. BV-Series Ball Valves BC-33
6-2. BV-Series Ball Valve Insulation BC-33
6-3. CMY-R160-J1 Joint Adapter Kit for BC Controllers BC-34

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P105NU-G1	
Number of branch			5	
Power source			1-phase 208/230V	
			60Hz	-
Power input (208/230V)	Cooling	kW	0.073	-
	Heating		0.033	-
Current (208/230V)	Cooling	A	0.35 / 0.32	-
	Heating		0.16 / 0.14	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P72/96/120TLMU-A(-BS), PURY-P72/96/120YLMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PQRY-P72/96/120TLMU-A, PQRY-P72/96/120YLMU-A	
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer [standard accessory] when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D		in. (mm)	11-3/16 x 25-17/32 x 17-1/32 (284 x 648 x 432)	
Refrigerant piping diameter	Connectable outdoor unit capacity		To outdoor unit	
			High press. pipe	Low press. pipe
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
			To indoor unit	
			Liquid pipe	Gas pipe
		in. (mm) O.D.	3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)	5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)
Field drain pipe size		in. (mm) O.D.	1-1/4 (32)	1-1/4 (32)
Net weight		lbs (kg)	64 (29)	72 (32)
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer	Drain Connection pipe (with flexible hose and insulation) Reducer
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 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. The data presented is based on a specific combination.			

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P106NU-G1		CMB-P108NU-G1	
Number of branch			6		8	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230V)	Cooling	kW	0.086	-	0.112	-
	Heating		0.040	-	0.053	-
Current (208/230V)	Cooling	A	0.41/0.37	-	0.54/0.49	-
	Heating		0.19/0.17	-	0.25/0.23	-
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)			
Connectable outdoor unit			PURY-P72/96/120TLMU-A(-BS), PURY-P72/96/120YLMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PQRY-P72/96/120TLMU-A, PQRY-P72/96/120YLMU-A			
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)			
External dimension H x W x D		in. (mm)	11-3/16 x 25-17/32 x 17-1/32 (284 x 648 x 432)			
Refrigerant piping diameter	Connectable outdoor unit capacity		To outdoor unit			
			High press. pipe		Low press. pipe	
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed		3/4 (19.05) Brazed	
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed		7/8 (22.2) Brazed	
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed		1-1/8 (28.58) Brazed	
			To indoor unit			
			Liquid pipe		Gas pipe	
		in. (mm) O.D.	3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)	
Field drain pipe size		in. (mm) O.D.	1-1/4 (32)		1-1/4 (32)	
Net weight		lbs (kg)	76 (34)		84 (38)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 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. The data presented is based on a specific combination.					

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P1010NU-G1		CMB-P1013NU-G1	
Number of branch			10		13	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230V)	Cooling	kW	0.138	-	0.178	-
	Heating		0.066	-	0.086	-
Current (208/230V)	Cooling	A	0.66/0.60	-	0.86/0.77	-
	Heating		0.32/0.29	-	0.41/0.37	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)			
Connectable outdoor unit			PURY-P72/96/120TLMU-A(-BS), PURY-P72/96/120YLMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PQRY-P72/96/120TLMU-A, PQRY-P72/96/120YLMU-A			
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer [standard accessory] when the indoor unit Model 18 or smaller is connected.)			
External dimension H x W x D		in. (mm)	11-3/16 x 25-17/32 x 17-1/32 (284 x 648 x 432)			
Refrigerant piping diameter	Connectable outdoor unit capacity		To outdoor unit			
			High press. pipe		Low press. pipe	
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed		3/4 (19.05) Brazed	
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed		7/8 (22.2) Brazed	
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed		1-1/8 (28.58) Brazed	
			To indoor unit			
			Liquid pipe		Gas pipe	
		in. (mm) O.D.	3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)	
Field drain pipe size		in. (mm) O.D.	1-1/4 (32)		1-1/4 (32)	
Net weight		lbs (kg)	94 (42)		126 (57)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 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. The data presented is based on a specific combination.					

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P1016NU-G1	
Number of branch			16	
Power source			1-phase 208/230V	
			60Hz	-
Power input	Cooling	kW	0.217	-
(208/230V)	Heating		0.106	-
Current	Cooling	A	1.04/0.94	-
(208/230V)	Heating		0.51/0.46	-
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P72/96/120TLMU-A(-BS), PURY-P72/96/120YLMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PQRY-P72/96/120TLMU-A, PQRY-P72/96/120YLMU-A	
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D		in. (mm)	11-3/16 x 43-1/4 x 17-1/32 (284 x 1,098 x 432)	
Refrigerant piping diameter	Connectable outdoor unit capacity		To outdoor unit	
			High press. pipe	Low press. pipe
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
			To indoor unit	
			Liquid pipe	Gas pipe
		in. (mm) O.D.	3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)	5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)
Field drain pipe size		in. (mm) O.D.	1-1/4 (32)	
Net weight		lbs (kg)	138 (62)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 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. The data presented is based on a specific combination.			

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name				**CMB-P1013NU-GA1**	
Number of branch				13	
Power source				1-phase 208/230V	
				60Hz	-
Power input (208/230V)	Cooling		kW	0.178	-
	Heating			0.086	-
Current (208/230V)	Cooling		A	0.86/0.77	-
	Heating			0.41/0.37	-
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit				PURY-P72/96/120/144/168/192/216/240T(S)LMU-A(-BS), PURY-P72/96/120/144/168/192/216/240Y(S)LMU-A(-BS), PURY-HP72/96/144/192T(S)KMU-A, PURY-HP72/96/144/192Y(S)KMU-A, PQRY-P72/96/120/144/168/192/216/240T(S)LMU-A, PQRY-P72/96/120/144/168/192/216/240Y(S)LMU-A	
Indoor unit capacity connectable to 1 branch			kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D			in. (mm)	11-13/32 x 43-23/32 x 20-1/2 (289 x 1,110 x 520)	
Refrigerant piping diameter	Connectable outdoor unit capacity			**To outdoor unit (PURY)**	
				High press. pipe	
		to P72 in. (mm) O.D.		5/8 (15.88) Brazed	
		P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	
		P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	
		P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	
		P193 to P216 in. (mm) O.D.		1-1/8 (28.58) Brazed	
		P217 to P240 in. (mm) O.D.		1-1/8 (28.58) Brazed	
	Connectable heat source unit capacity			**To heat source unit (PQRY)**	
				High press. pipe	**Low press. pipe**
		to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
		P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
		P193 to P216 in. (mm) O.D.		7/8 (22.2) Brazed [1-1/8 (28.58) Brazed if distance between OU and BC exceeds 65 m] only T(S)LMU and Y(S)LMU	1-1/8 (28.58) Brazed only T(S)LMU and Y(S)LMU
		P217 to P240 in. (mm) O.D.		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) only T(S)LMU and Y(S)LMU	1-3/8 (34.93) Brazed only T(S)LMU and Y(S)LMU
				To indoor unit	
				Liquid pipe	
		in. (mm) O.D.		3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)	
	Total indoor unit capacity connected to this Sub BC controller			**To other BC controller**	
				High press. pipe	
				Liquid pipe	
		to P72 in. (mm) O.D.		5/8 (15.88) Brazed	
				3/8 (9.52) Brazed	
		P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	
				3/8 (9.52) Brazed	
		P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	
				1/2 (12.7) Brazed	
Field drain pipe size		in. (mm) O.D.		1-1/4 (32)	
Net weight			lbs (kg)	148 (67)	
Accessories				Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 2. The equipment is for R410A refrigerant. 3. P204 to P240 type outdoor unit side high press. pipe can changed to "1-1/8 (28.58) Brazed". 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. The data presented is based on a specific combination.				

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P108NU-HA1	
Number of branch			8	
Power source			1-phase 208/230 V 60Hz	
			60Hz	-
Power input (208/230V)	Cooling	kW	0.152/0.196	-
	Heating		0.076/0.098	-
Current (208/230V)	Cooling	A	0.074/0.086	-
	Heating		0.37/0.43	-
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P-T(S)LMU-A(-BS), PURY-P7-Y(S)LMU-A(-BS), PURY-HP-T(S)KMU-A, PURY-HP-Y(S)KMU-A, PQRY-P-T(S)LMU-A, PQRY-P-Y(S)LMU-A	
Connectable BC controller		Main BC	-	
		Sub BC	CMB-P104/108NU-GB1, CMB-P1016NU-HB1	
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D		in. (mm)	11-7/16 x 43-3/4 x 20-1/2 (289 x 1,110 x 520)	
Refrigerant piping diameter	Connectable outdoor unit capacity		**To outdoor unit (PURY)**	
			High press. pipe	**Low press. pipe**
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
		P127 to P192 in. (mm) O.D.	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
		P193 to P216 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
		P217 to P240 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
		P241 to P288 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
		P289 to P336 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
	Connectable heat source unit capacity		**To heat source unit (PQRY)**	
			High press. pipe	**Low press. pipe**
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
		P127 to P192 in. (mm) O.D.	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
		P193 to P216 in. (mm) O.D.	7/8 (22.2) Brazed [1-1/8 (28.58) Brazed if distance between OU and BC exceeds 65 m] only T(S)LMU and Y(S)LMU	1-1/8 (28.58) Brazed only T(S)LMU and Y(S)LMU
		P217 to P240 in. (mm) O.D.	7/8 (22.2) Brazed [1-1/8 (28.58) Brazed if distance between OU and BC exceeds 65 m] only T(S)LMU and Y(S)LMU	1-3/8 (34.93) Brazed only T(S)LMU and Y(S)LMU
		P241 to P312 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
		P313 to P336 in. (mm) O.D.	1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
			To indoor unit	
			Liquid pipe	**Gas pipe**
		in. (mm) O.D.	3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used, 1/2 (12.7) with optional joint pipe used.)	5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05), 7/8 (22.2) with optional joint pipe used.)
	Total indoor unit capacity connected to this Sub BC controller		**To other BC controller**	
			High press. pipe	**Low press. pipe**
			Liquid pipe	
		to P72 in. (mm) O.D.	5/8 (15.88) Brazed	3/4 (19.05) Brazed
			3/8 (9.52) Brazed	
		P73 to P108 in. (mm) O.D.	3/4 (19.05) Brazed	7/8 (22.2) Brazed
			3/8 (9.52) Brazed	
		P109 to P126 in. (mm) O.D.	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
		P127 to P144 in. (mm) O.D.	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
		P145 to P168 in. (mm) O.D.	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			5/8 (15.88) Brazed	
Field drain pipe size		in. (mm) O.D.	1-1/4 (32)	
Net weight		lbs (kg)	124 (56)	
Accessories			Drain Connection pipe (with flexible hose and insulation), Reducer	
Note:	1. Use this product when connecting outdoor unit P264 or more. ; 2. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. ; 3. The equipment is for R410A refrigerant. ; 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. The data presented is based on a specific combination.			

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P1010NU-HA1	
Number of branch			10	
Power source			1-phase 208/230 V 60Hz	
			60Hz	-
Power input (208/230V)	Cooling	kW	0.183/0.236	-
	Heating		0.092/0.118	-
Current (208/230V)	Cooling	A	0.88/1.03	-
	Heating		0.45/0.52	-
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P-T(S)LMU-A(-BS), PURY-P7-Y(S)LMU-A(-BS), PURY-HP-T(S)KMU-A, PURY-HP-Y(S)KMU-A, PQRY-P-T(S)LMU-A, PQRY-P-Y(S)LMU-A	
Connectable BC controller		Main BC	-	
		Sub BC	CMB-P104/108NU-GB1, CMB-P1016NU-HB1	
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D		in. (mm)	11-7/16 x 43-3/4 x 20-1/2 (289 x 1,110 x 520)	
Refrigerant piping diameter	Connectable outdoor unit capacity		**To outdoor unit (PURY)**	
			High press. pipe	Low press. pipe
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
	P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
	P193 to P216 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
	P217 to P240 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P241 to P288 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P289 to P336 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
	Connectable heat source unit capacity		**To heat source unit (PQRY)**	
			High press. pipe	**Low press. pipe**
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
	P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
	P193 to P216 in. (mm) O.D.		7/8 (22.2) Brazed [1-1/8 (28.58) Brazed if distance between OU and BC exceeds 65 m] only T(S)LMU and Y(S)LMU	1-1/8 (28.58) Brazed only T(S)LMU and Y(S)LMU
	P217 to P240 in. (mm) O.D.		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) only T(S)LMU and Y(S)LMU	1-3/8 (34.93) Brazed only T(S)LMU and Y(S)LMU
	P241 to P312 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P313 to P336 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
			To indoor unit	
			Liquid pipe	**Gas pipe**
	in. (mm) O.D.		3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used, 1/2 (12.7) with optional joint pipe used.)	5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05), 7/8 (22.2) with optional joint pipe used.)
	Total indoor unit capacity connected to this Sub BC controller		**To other BC controller**	
			High press. pipe	**Low press. pipe**
			Liquid pipe	
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
			3/8 (9.52) Brazed	
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
			3/8 (9.52) Brazed	
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
	P127 to P144 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
	P145 to P168 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			5/8 (15.88) Brazed	
Field drain pipe size	in. (mm) O.D.		1-1/4 (32)	
Net weight		lbs (kg)	131 (59)	
Accessories			Drain Connection pipe (with flexible hose and insulation) , Reducer	

Note:
1. Use this product when connecting outdoor unit P264 or more.
2. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications.
3. The equipment is for R410A refrigerant.
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. The data presented is based on a specific combination.

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P1016NU-HA1	
Number of branch			16	
Power source			1-phase 208/230 V 60Hz	
			60Hz	-
Power input (208/230V)	Cooling	kW	0.274/0.353	-
	Heating		0.137/0.177	-
Current (208/230V)	Cooling	A	1.32/1.54	-
	Heating		0.66/0.77	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P-T(S)LMU-A(-BS), PURY-P7-Y(S)LMU-A(-BS), PURY-HP-T(S)KMU-A, PURY-HP-Y(S)KMU-A, PQRY-P-T(S)LMU-A, PQRY-P-Y(S)LMU-A	
Connectable BC controller		Main BC	-	
		Sub BC	CMB-P104/108NU-GB1, CMB-P1016NU-HB1	
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)	
External dimension H x W x D		in. (mm)	11-7/16 x 43-3/4 x 20-1/2 (289 x 1,110 x 520)	
Refrigerant piping diameter	Connectable outdoor unit capacity		**To outdoor unit (PURY)**	
			High press. pipe	Low press. pipe
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
	P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
	P193 to P216 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
	P217 to P240 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P241 to P288 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P289 to P336 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
	Connectable heat source unit capacity		**To heat source unit (PQRY)**	
			High press. pipe	Low press. pipe
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
	P127 to P192 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
	P193 to P216 in. (mm) O.D.		7/8 (22.2) Brazed [1-1/8 (28.58) Brazed if distance between OU and BC exceeds 65 m] only T(S)LMU and Y(S)LMU	1-1/8 (28.58) Brazed only T(S)LMU and Y(S)LMU
	P217 to P240 in. (mm) O.D.		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) only T(S)LMU and Y(S)LMU	1-3/8 (34.93) Brazed only T(S)LMU and Y(S)LMU
	P241 to P312 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed
	P313 to P336 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed
			To indoor unit	
			Liquid pipe	**Gas pipe**
	in. (mm) O.D.		3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used, 1/2 (12.7) with optional joint pipe used.)	5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05), 7/8 (22.2) with optional joint pipe used.)
	Total indoor unit capacity connected to this Sub BC controller		**To other BC controller**	
			High press. pipe	**Low press. pipe**
			Liquid pipe	
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed	3/4 (19.05) Brazed
			3/8 (9.52) Brazed	
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed	7/8 (22.2) Brazed
			3/8 (9.52) Brazed	
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
	P127 to P144 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			1/2 (12.7) Brazed	
	P145 to P168 in. (mm) O.D.		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
			5/8 (15.88) Brazed	
Field drain pipe size	in. (mm) O.D.		1-1/4 (32)	
Net weight		lbs (kg)	172 (78)	
Accessories			Drain Connection pipe (with flexible hose and insulation) , Reducer	
Note:	1. Use this product when connecting outdoor unit P264 or more. 2. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 3. The equipment is for R410A refrigerant. 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. The data presented is based on a specific combination.			

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

Model name			CMB-P104NU-GB1		CMB-P108NU-GB1	
Number of branch			4		8	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230V)	Cooling	kW	0.053	-	0.106	-
	Heating		0.027	-	0.053	-
Current (208/230V)	Cooling	A	0.25/0.23	-	0.51/0.46	-
	Heating		0.13/0.12	-	0.25/0.23	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)			
Indoor unit capacity connectable to 1 branch		kW	Model P54 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.)			
External dimension H x W x D		in. (mm)	11-3/16 x 25-17/32 x 17-1/32 (284 x 648 x 432)			
Refrigerant piping diameter			**To indoor unit**			
			Liquid pipe		Gas pipe	
	in. (mm) O.D.		3/8 (9.52) Brazed (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Brazed (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)	
	Total indoor unit capacity connected to this Sub BC controller		**To other BC controller**			
			High press. pipe		**Low press. pipe**	
			Liquid pipe			
	to P72 in. (mm) O.D.		5/8 (15.88) Brazed 3/8 (9.52) Brazed		3/4 (19.05) Brazed	
	P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed 3/8 (9.52) Brazed		7/8 (22.2) Brazed	
	P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed 1/2 (12.7) Brazed		1-1/8 (28.58) Brazed	
Field drain pipe size	in. (mm) O.D.		1-1/4 (32)		1-1/4 (32)	
Net weight		lbs (kg)	62 (28)		82 (37)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 2. The equipment is for R410A refrigerant. 3. To use the Sub BC controller, the Main BC controller is necessary to be connected with. 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. The data presented is based on a specific combination.					

© 2017 Mitsubishi Electric US, Inc.

1. SPECIFICATIONS

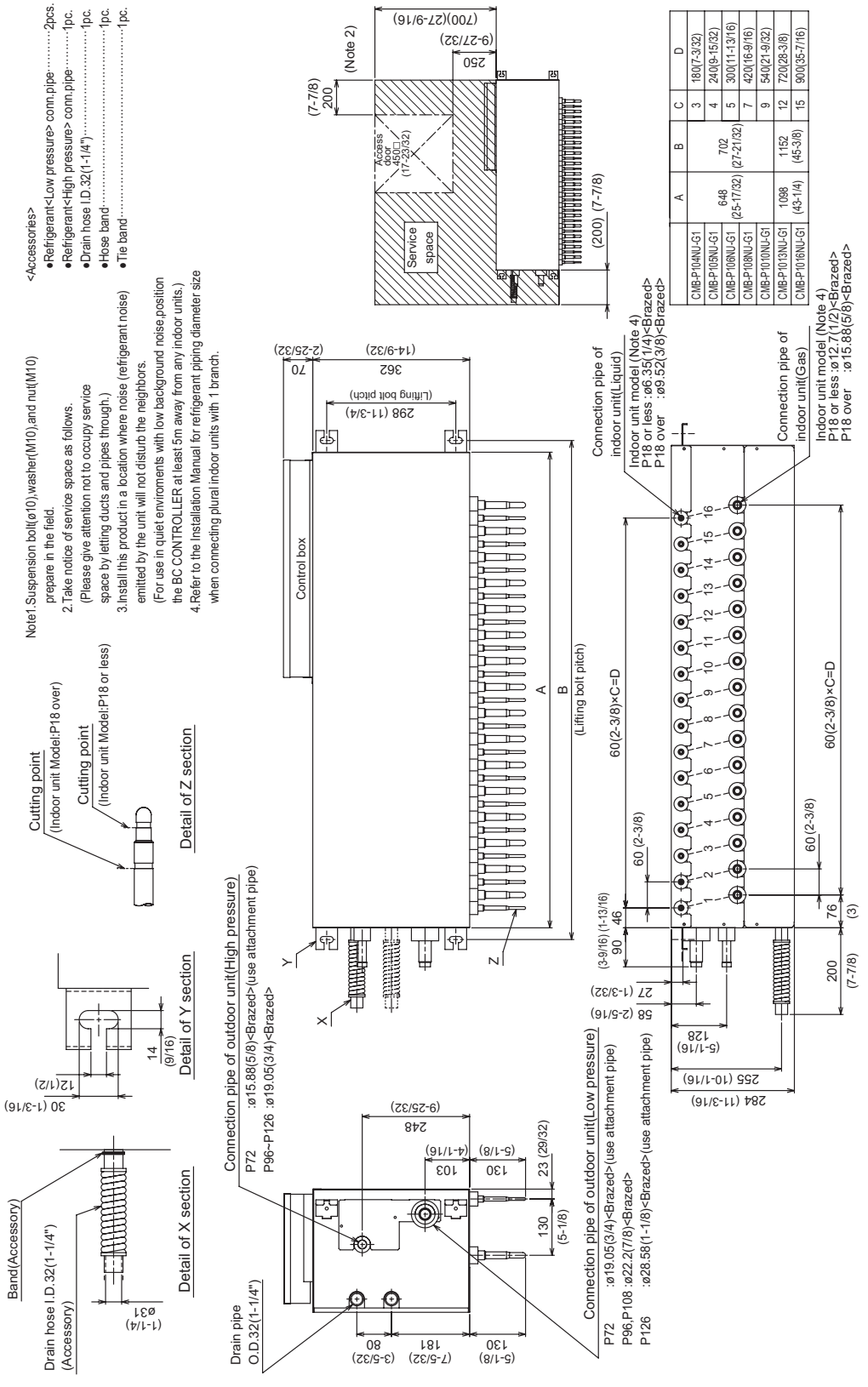
Model name				CMB-P1016NU-HB1	
Number of branch				16	
Power source				1-phase 208/230 V 60Hz	
				60Hz	-
Power input (208/230V)	Cooling		kW	0.314	-
	Heating			0.157	-
Current (208/230V)	Cooling		A	1.17/1.37	-
	Heating			0.59/0.69	-
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)	
Connectable BC controller			Main BC	CMB-P108/1010/1013/1016NU-GA1	
			Sub BC	CMB-P104/108NU-GB1, CMB-P1016NU-HB1	
Indoor unit capacity connectable to 1 branch			kW	Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.) (Use the reducer (standard accessory) when the indoor unit Model 18 or smaller is connected.	
External dimension H x W x D			in. (mm)	11-3/16 x 43-1/4 x 17-1/32 (284 x 1098 x 432)	
Refrigerant piping diameter	Connectable outdoor unit capacity			**To outdoor unit**	
				High press. pipe	Low press. pipe
		in. (mm) O.D.		-	-
				To indoor unit	
		in. (mm) O.D.		Liquid pipe	Gas pipe
				3/8 (9.52) Brazed	5/8 (15.88) Brazed
				(1/4 (6.35)with attached reducer used, 1/2 (12.7)with optional joint pipe used.)	(1/2 (12.7)with attached reducer used, 3/4 (19.05) with optional joint pipe used.)
	Total indoor unit capacity connected to this Sub BC controller			**To other BC controller**	
				High press. pipe	**Low press. pipe**
				Liquid pipe	
		to P72 in. (mm) O.D.		5/8 (15.88) Brazed 3/8 (9.52) Brazed	3/4 (19.05) Brazed
		P73 to P108 in. (mm) O.D.		3/4 (19.05) Brazed 3/8 (9.52) Brazed	7/8 (22.2) Brazed
		P109 to P126 in. (mm) O.D.		3/4 (19.05) Brazed 1/2 (12.7) Brazed	1-1/8 (28.58) Brazed
		P127 to P144 in. (mm) O.D.		7/8 (22.2) Brazed 1/2 (12.7) Brazed	1-1/8 (28.58) Brazed
		P145 to P168 in. (mm) O.D.		7/8 (22.2) Brazed 5/8 (15.88) Brazed	1-1/8 (28.58) Brazed
Field drain pipe size		in. (mm) O.D.		1-1/4 (32mm)	
Net weight			lbs (kg)	136 (61)	
Accessories				Drain Connection pipe (with flexible hose and insulation) Reducer	
Note:	1. Works not included: Installation/foundation work, electrical connection work, duct work, duct work, insulation work, power source switch, and other items are not specified in this specifications. 2. The equipment is for R410A refrigerant. 3. For sub BC controller CMB-P1016NU-HB1 the connectable indoor unit capacities may sum to equal that or a P126 unit or less. However, if two sub controllers are used 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. The data presented is based on a specific combination.				

© 2017 Mitsubishi Electric US, Inc.

2. EXTERNAL DIMENSIONS

CMB-P105, 106, 108, 1010, 1013, 1016NU-G1

Unit: mm (in.)

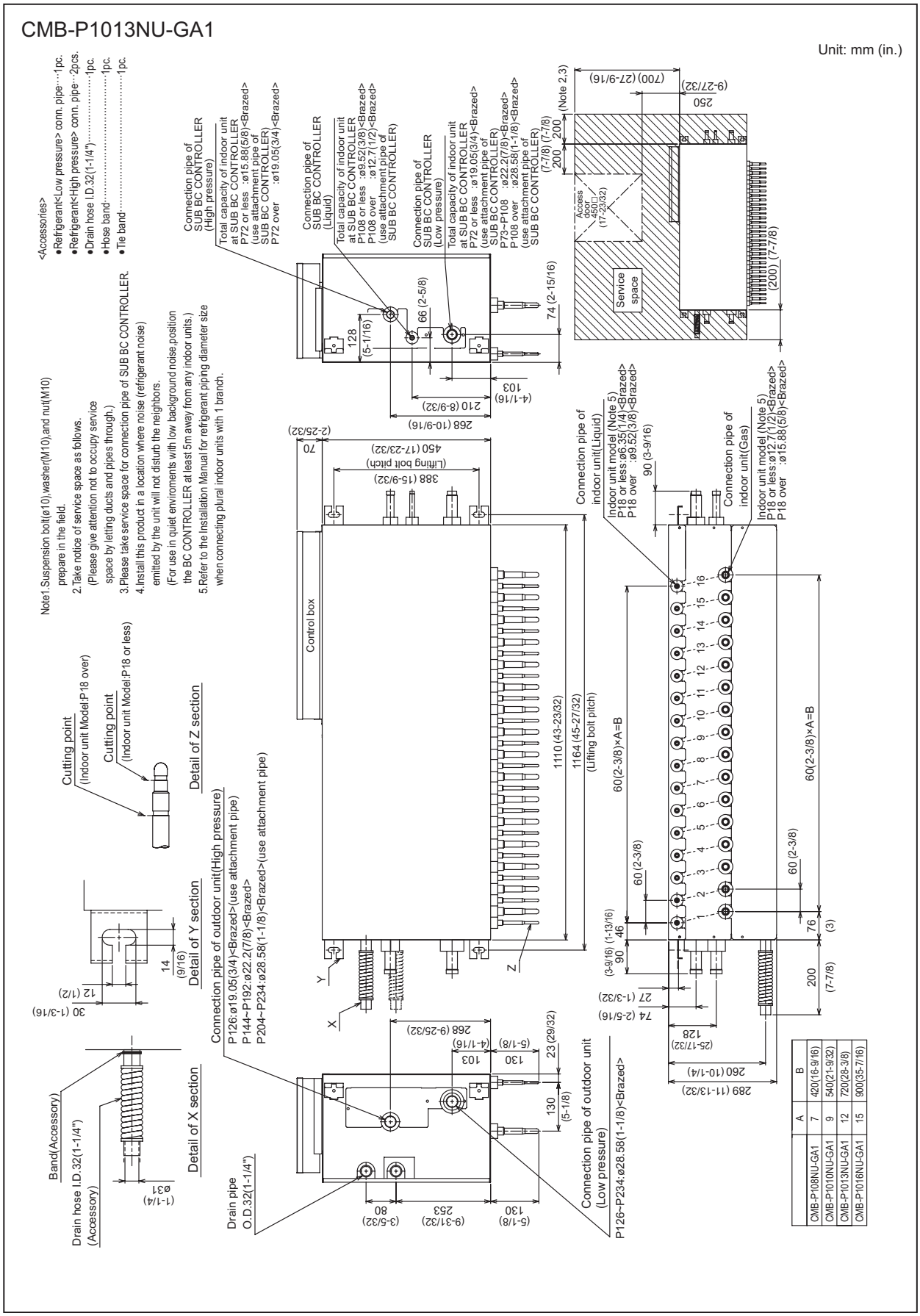


© 2017 Mitsubishi Electric US, Inc.

2. EXTERNAL DIMENSIONS

CMB-P1013NU-GA1

Unit: mm (in.)

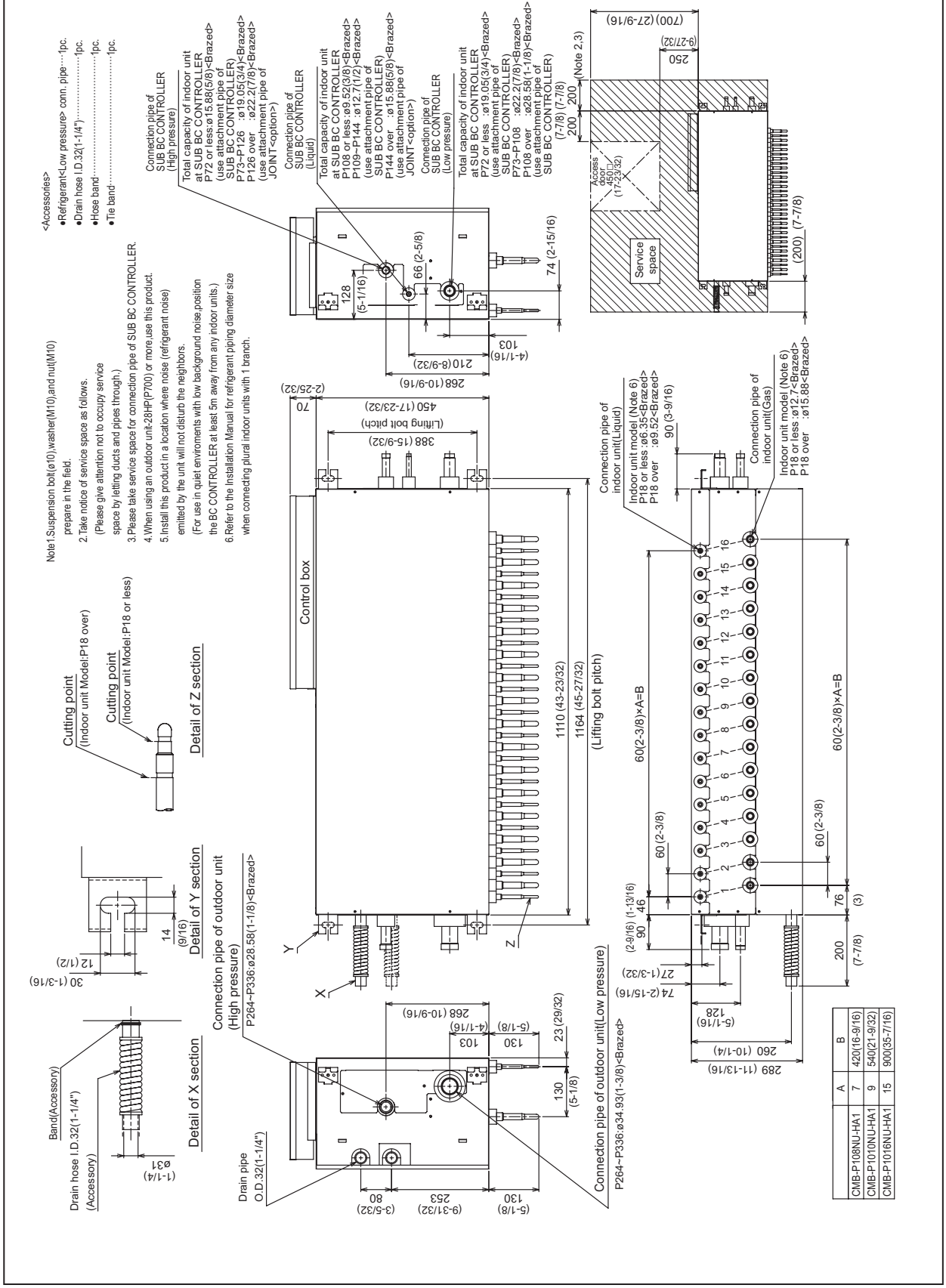


	A	B
CMB-P108NU-GA1	7	420(16-9/16)
CMB-P1010NU-GA1	9	540(21-9/32)
CMB-P1013NU-GA1	12	720(28-3/8)
CMB-P1016NU-GA1	15	900(35-7/16)

© 2017 Mitsubishi Electric US, Inc.

CMB-P108, 1010, 1016NU-HA1

Unit: mm (in.)



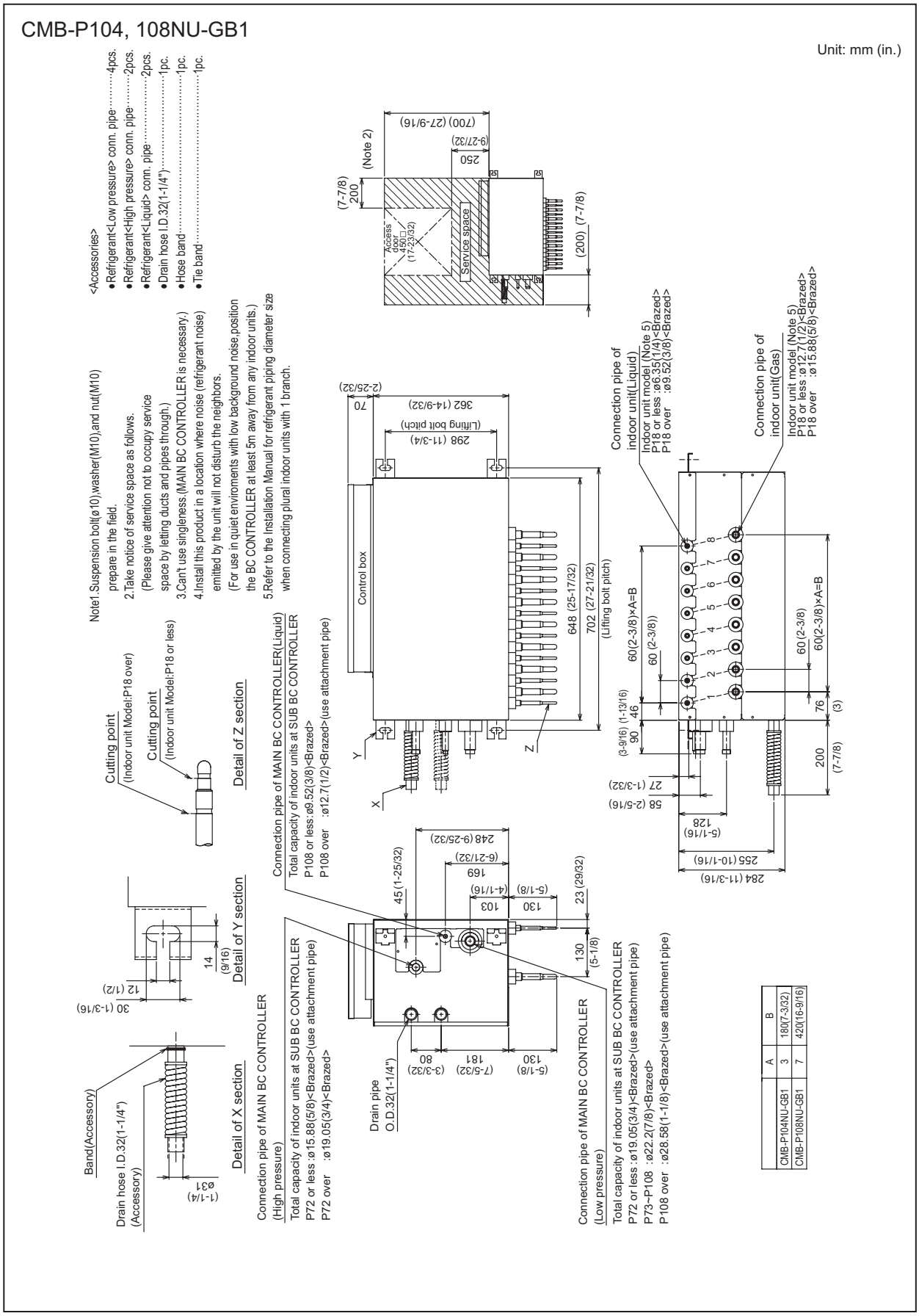
	A	B
CMB-P108NU-HA1	7	420(16-9/16)
CMB-P1010NU-HA1	9	540(21-9/32)
CMB-P1016NU-HA1	15	900(35-7/16)

© 2017 Mitsubishi Electric US, Inc.

2. EXTERNAL DIMENSIONS

CMB-P104, 108NU-GB1

Unit: mm (in.)

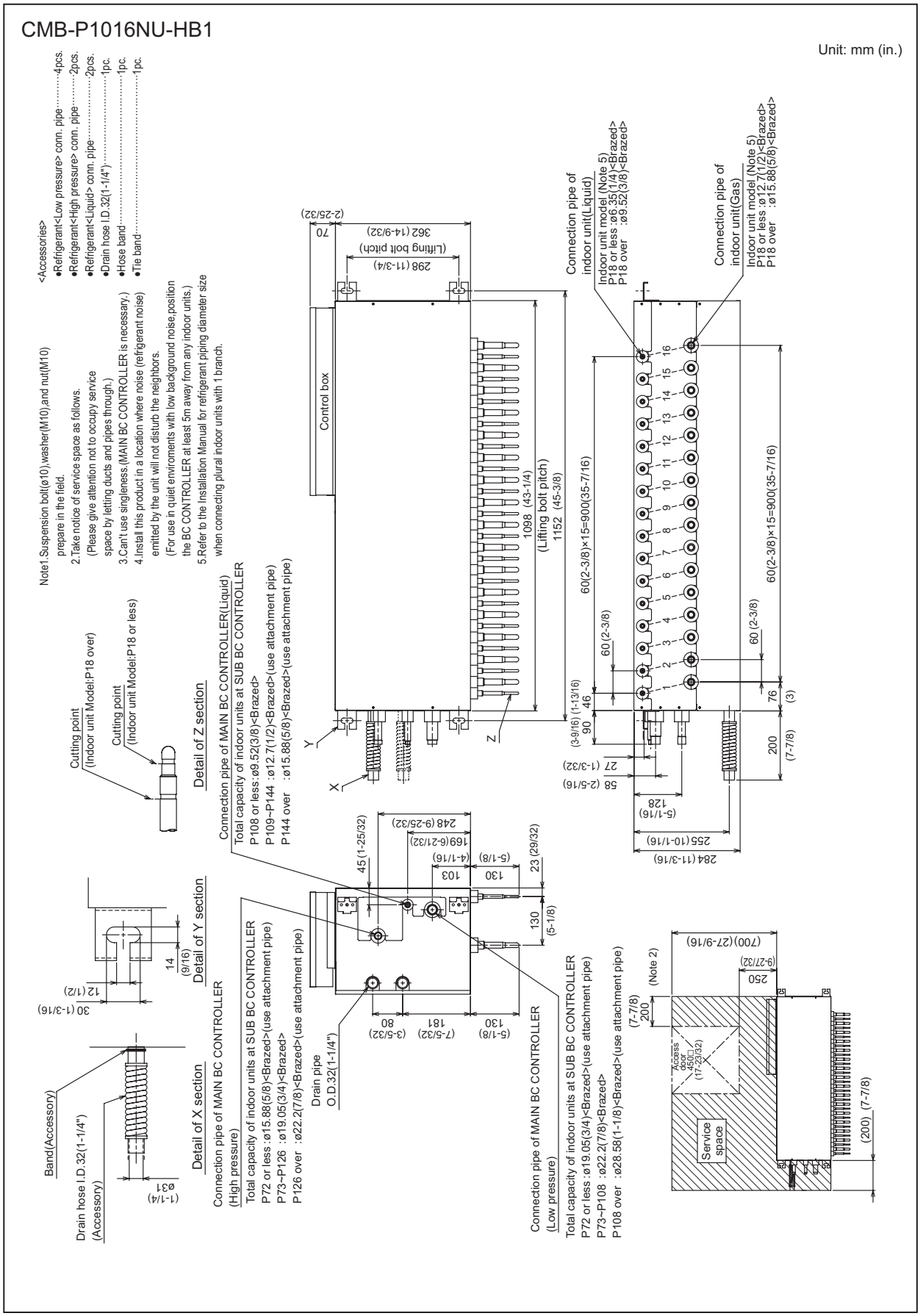


	A	B
CMB-P104NU-GB1	3	180(7-3/32)
CMB-P108NU-GB1	7	420(16-9/16)

© 2017 Mitsubishi Electric US, Inc.

CMB-P1016NU-HB1

Unit: mm (in.)



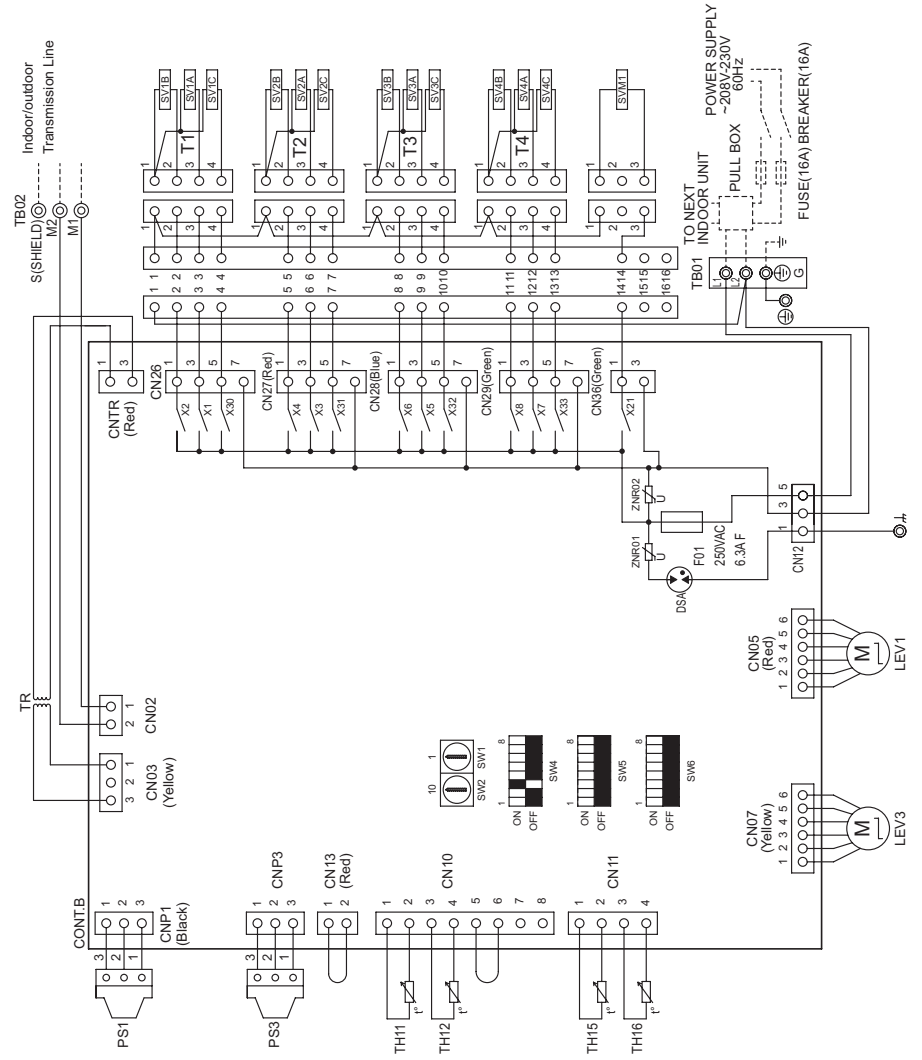
© 2017 Mitsubishi Electric US, Inc.

CMB-P104NU-G1

(Symbol explanation)

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
CONT.B	Circuit board / BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~4A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~4	Terminal
F01	Fuse AC250V 6.3A F

Note:1.TB02 is transmission terminal block. Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



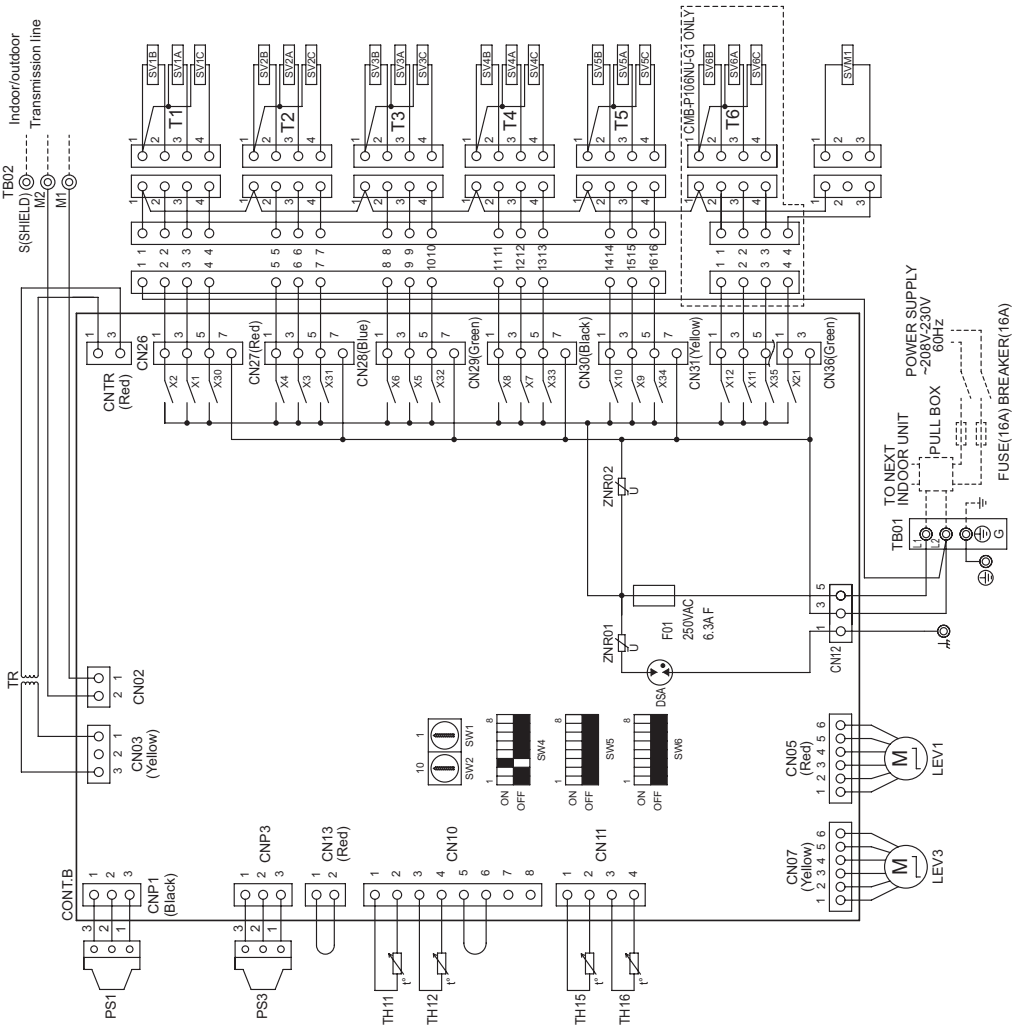
© 2017 Mitsubishi Electric US, Inc.

CMB-P105, 106NU-G1

(Symbol explanation)

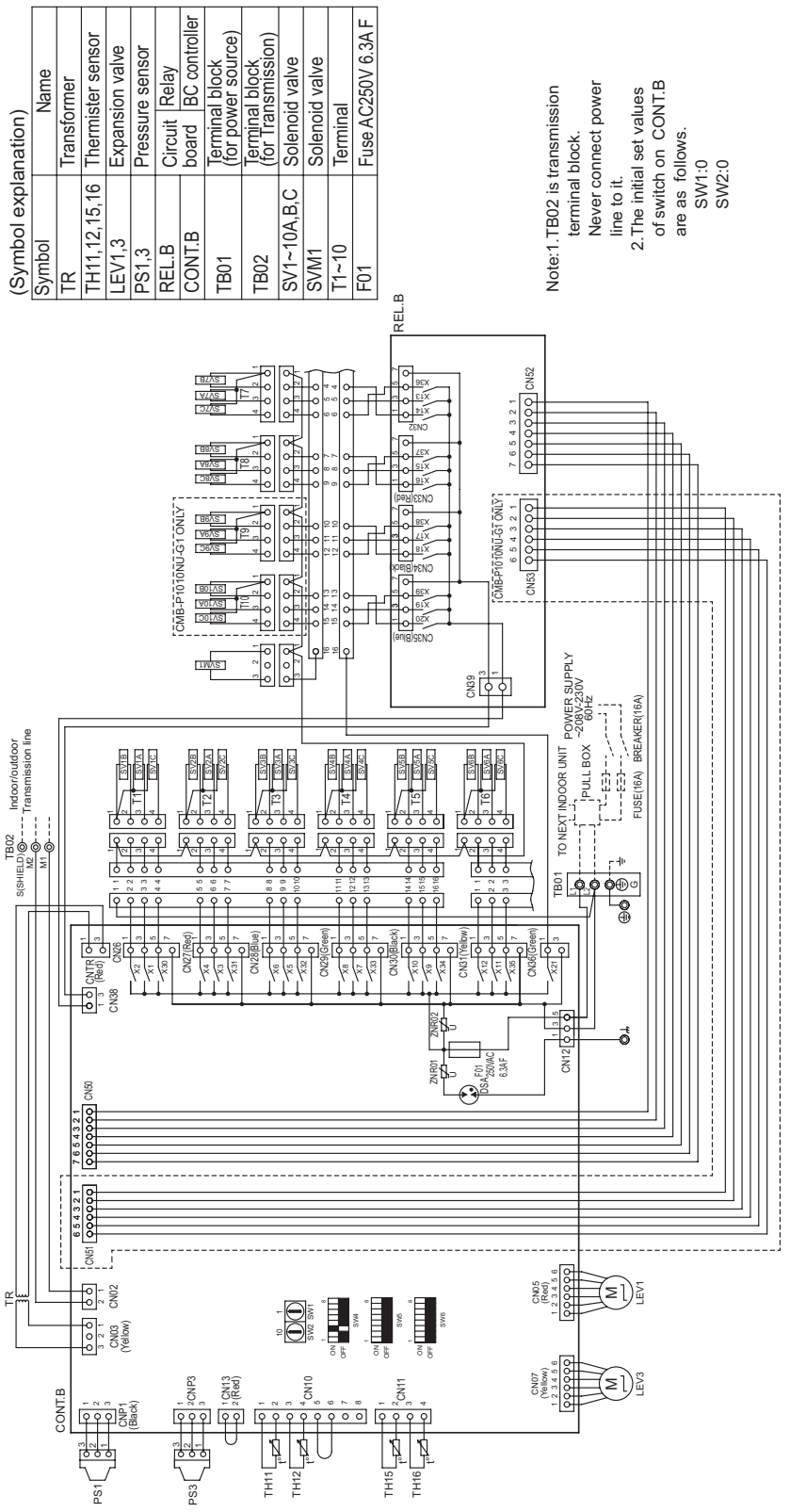
Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
CONT.B	Circuit board: BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~6A,B,C	Solenoid valve
SVM1	Solenoid valve
T1~6	Terminal
F01	Fuse AC250V 6.3A F

Note:1.TB02 is transmission terminal block. Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



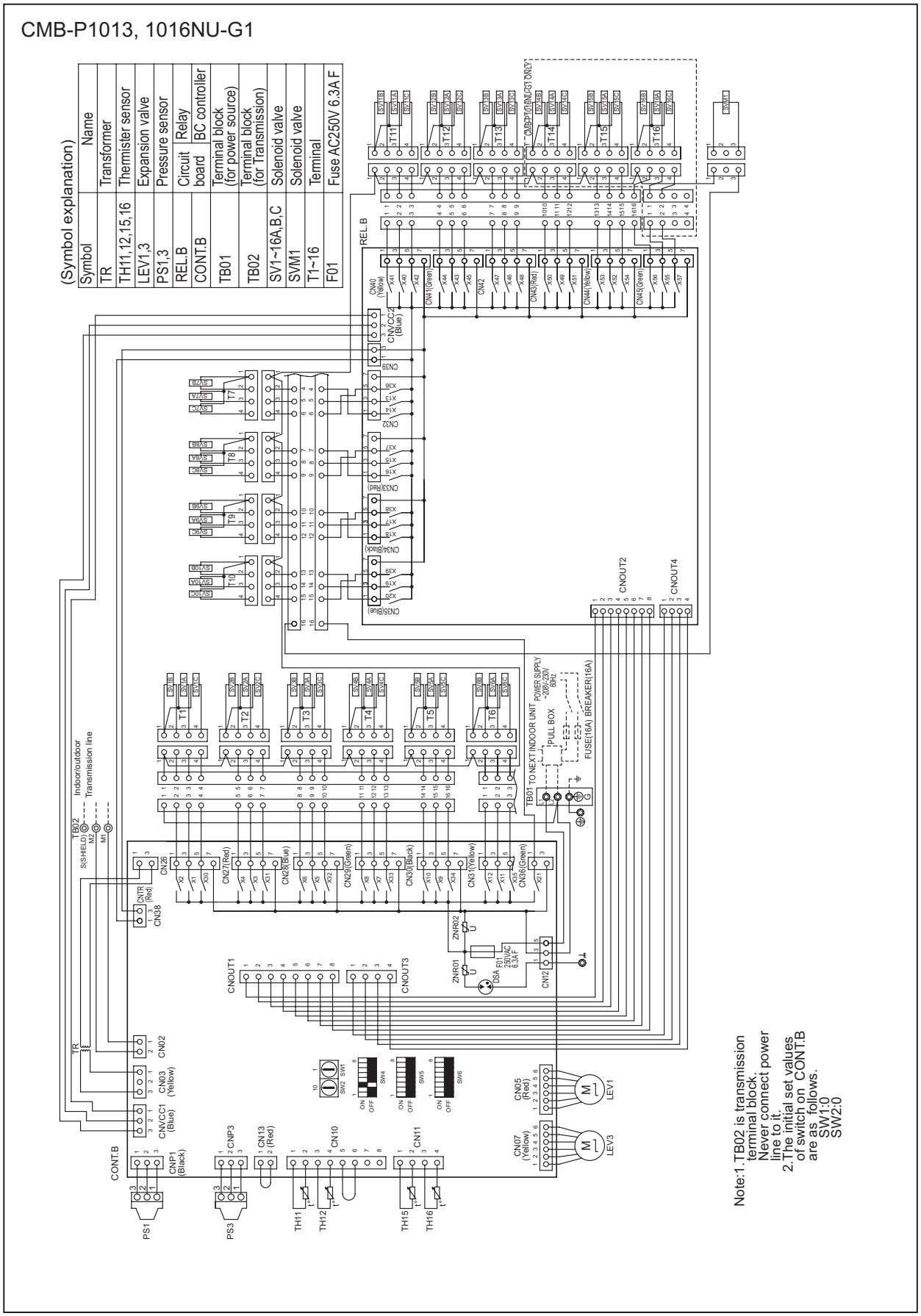
© 2017 Mitsubishi Electric US, Inc.

CMB-P108, 1010NU-G1



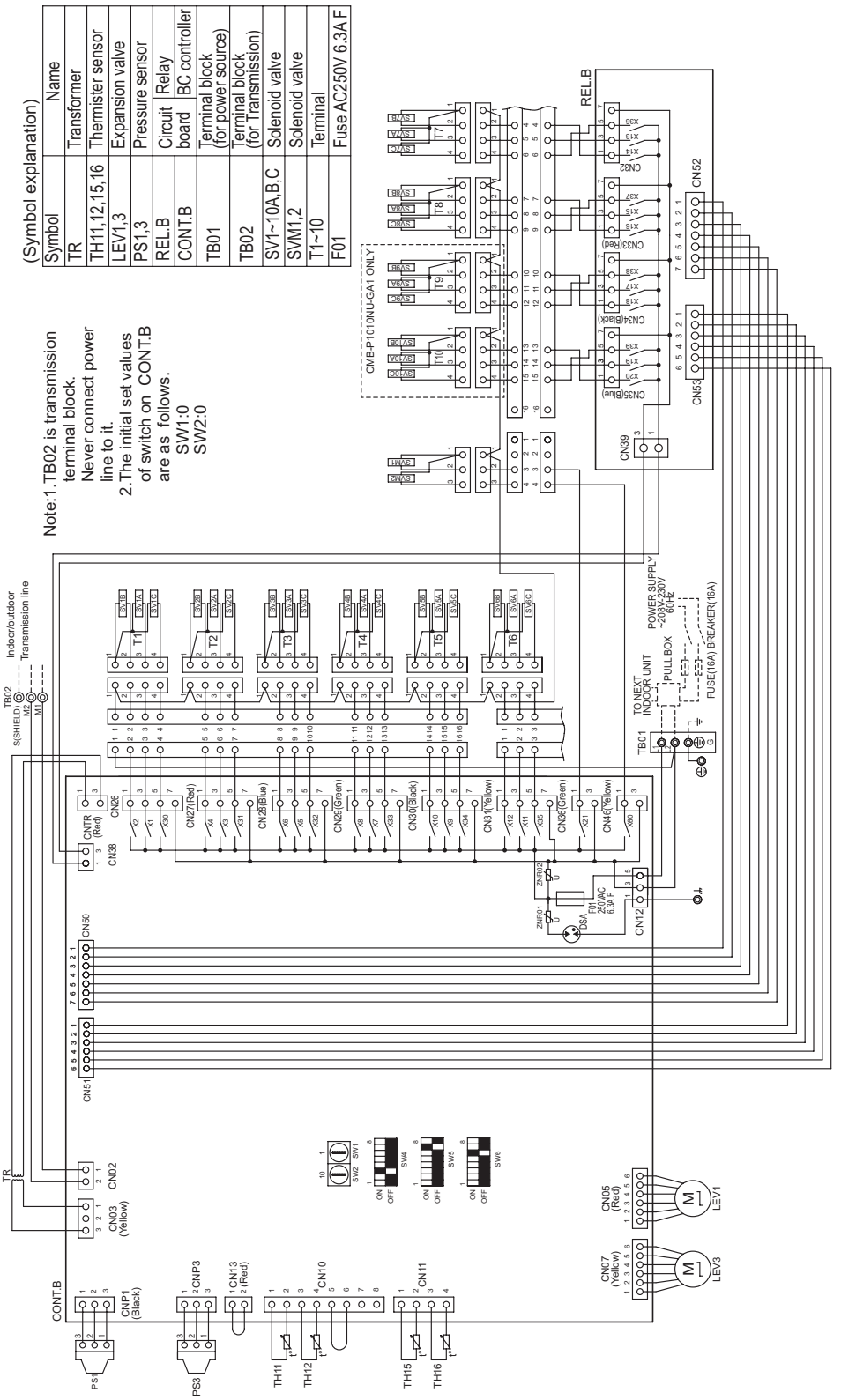
© 2017 Mitsubishi Electric US, Inc.

CMB-P1013, 1016NU-G1



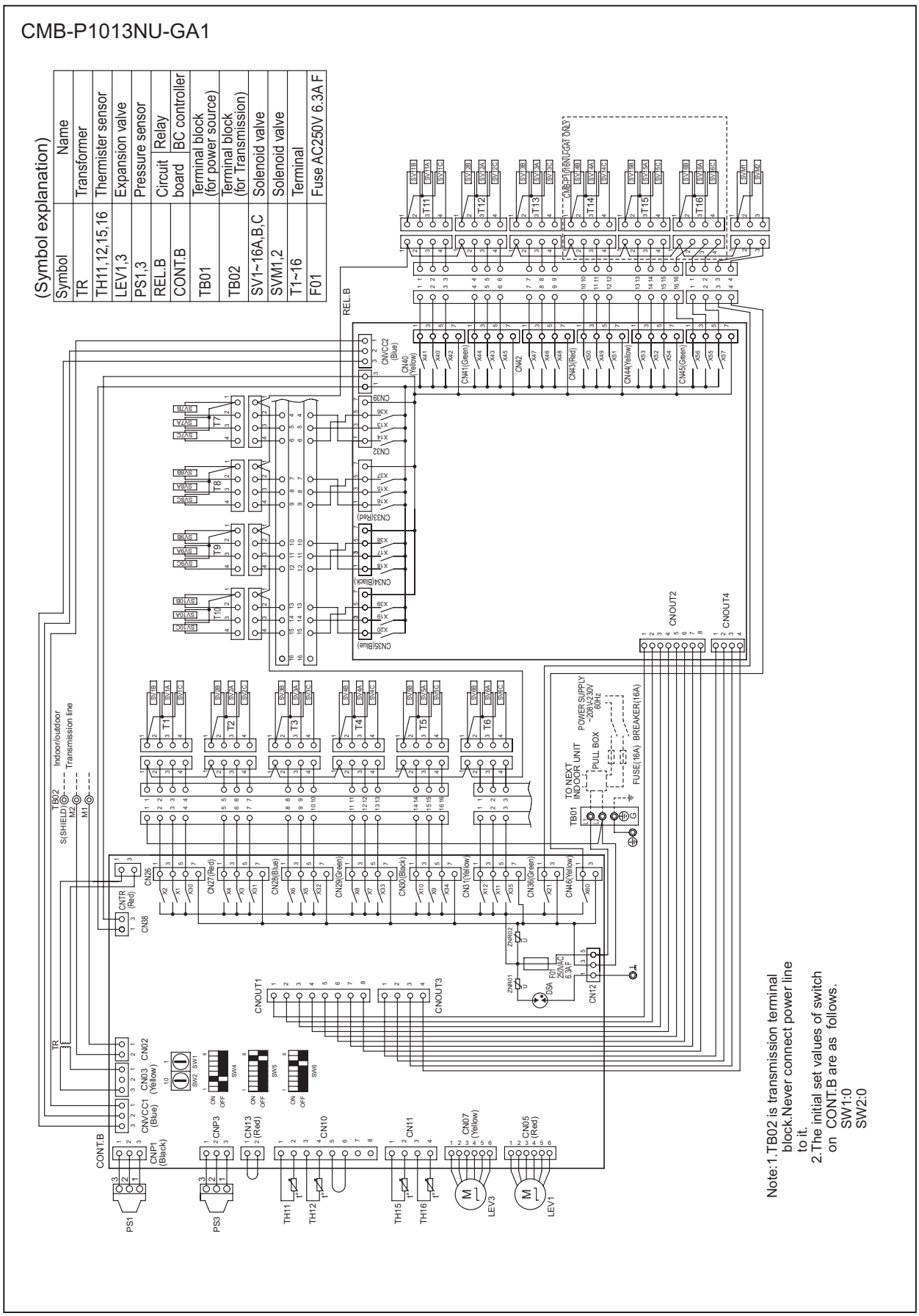
© 2017 Mitsubishi Electric US, Inc.

CMB-P108, 1010NU-GA1



© 2017 Mitsubishi Electric US, Inc.

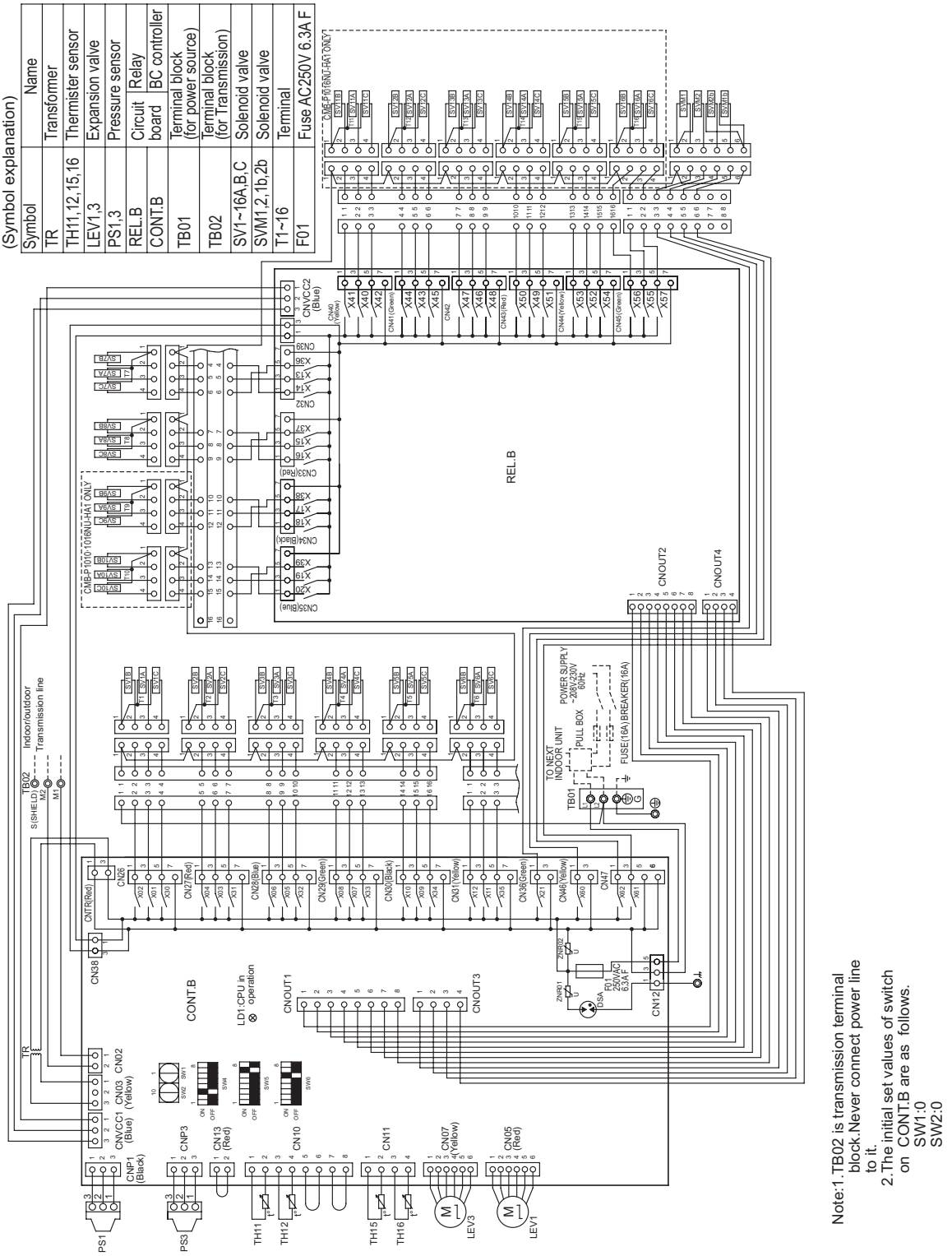
CMB-P1013NU-GA1



Note:1.TB02 is transmission terminal block.Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

© 2017 Mitsubishi Electric US, Inc.

CMB-P108, 1010, 1016NU-HA1



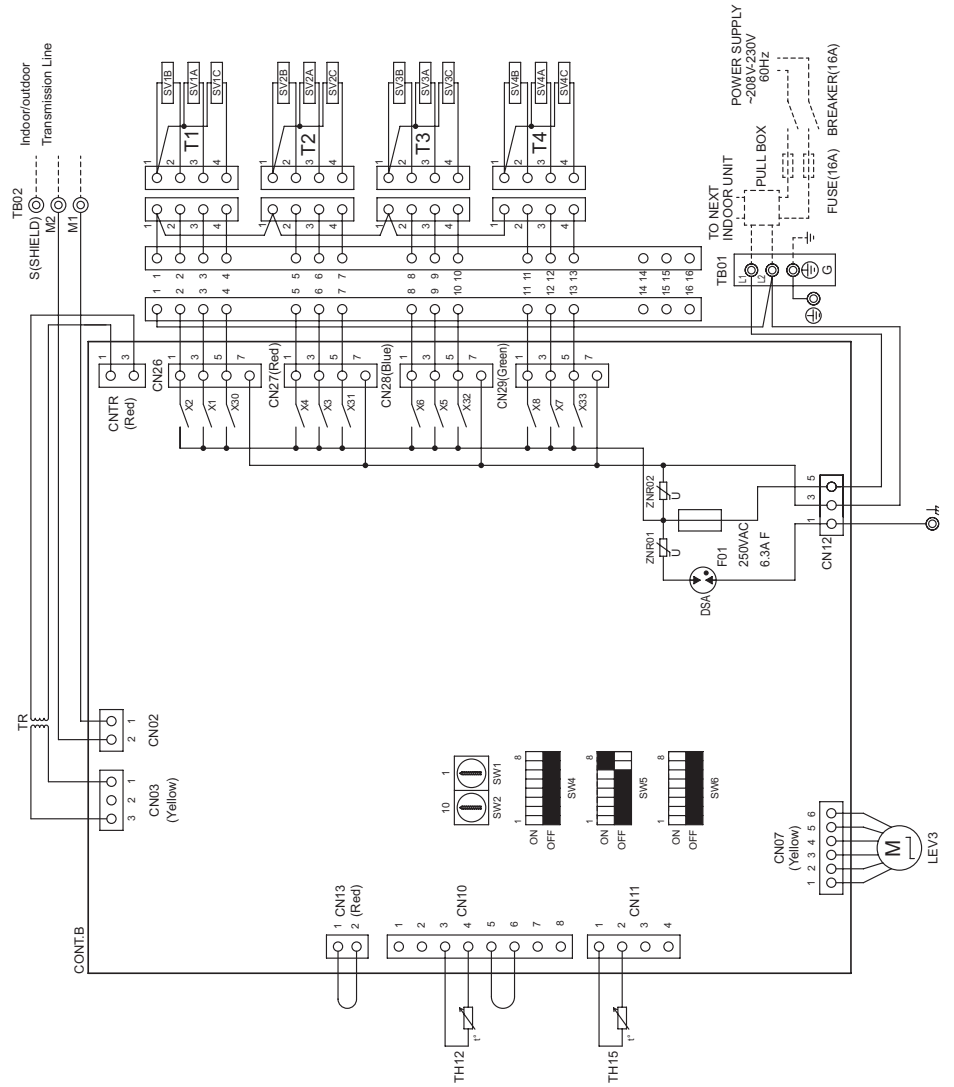
© 2017 Mitsubishi Electric US, Inc.

CMB-P104NU-GB1

(Symbol explanation)

Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
CONT.B	Circuit board / BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~4A,B,C	Solenoid valve
T1~4	Terminal
F01	Fuse AC250V 6.3A F

Note:1.TB02 is transmission terminal block. Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



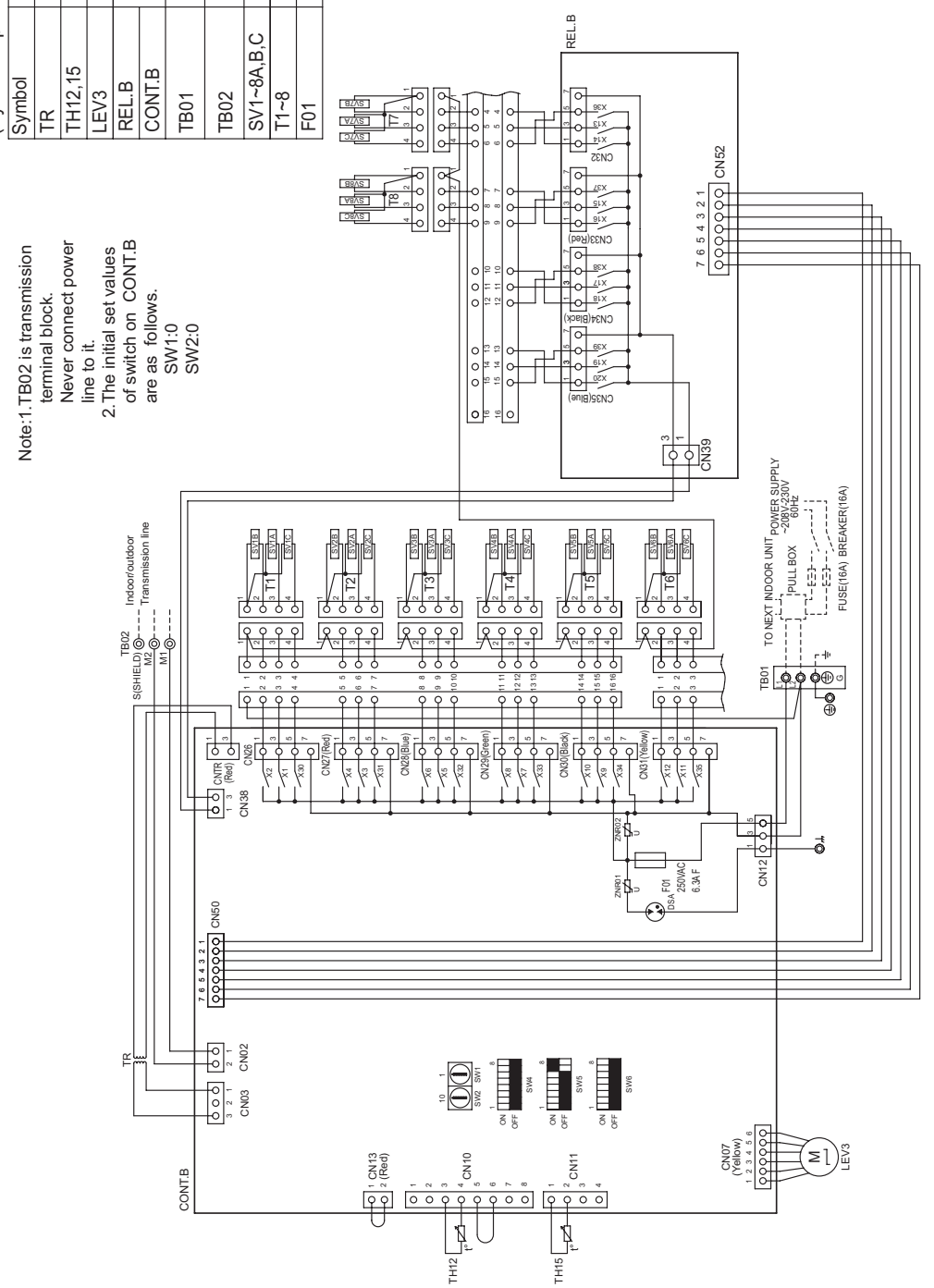
© 2017 Mitsubishi Electric US, Inc.

CMB-P108NU-GB1

(Symbol explanation)

Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
REL.B	Circuit board Relay
CONT.B	BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~8A,B,C	Solenoid valve
T1~8	Terminal
F01	Fuse AC250V 6.3A F

Note:1.TB02 is transmission terminal block. Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

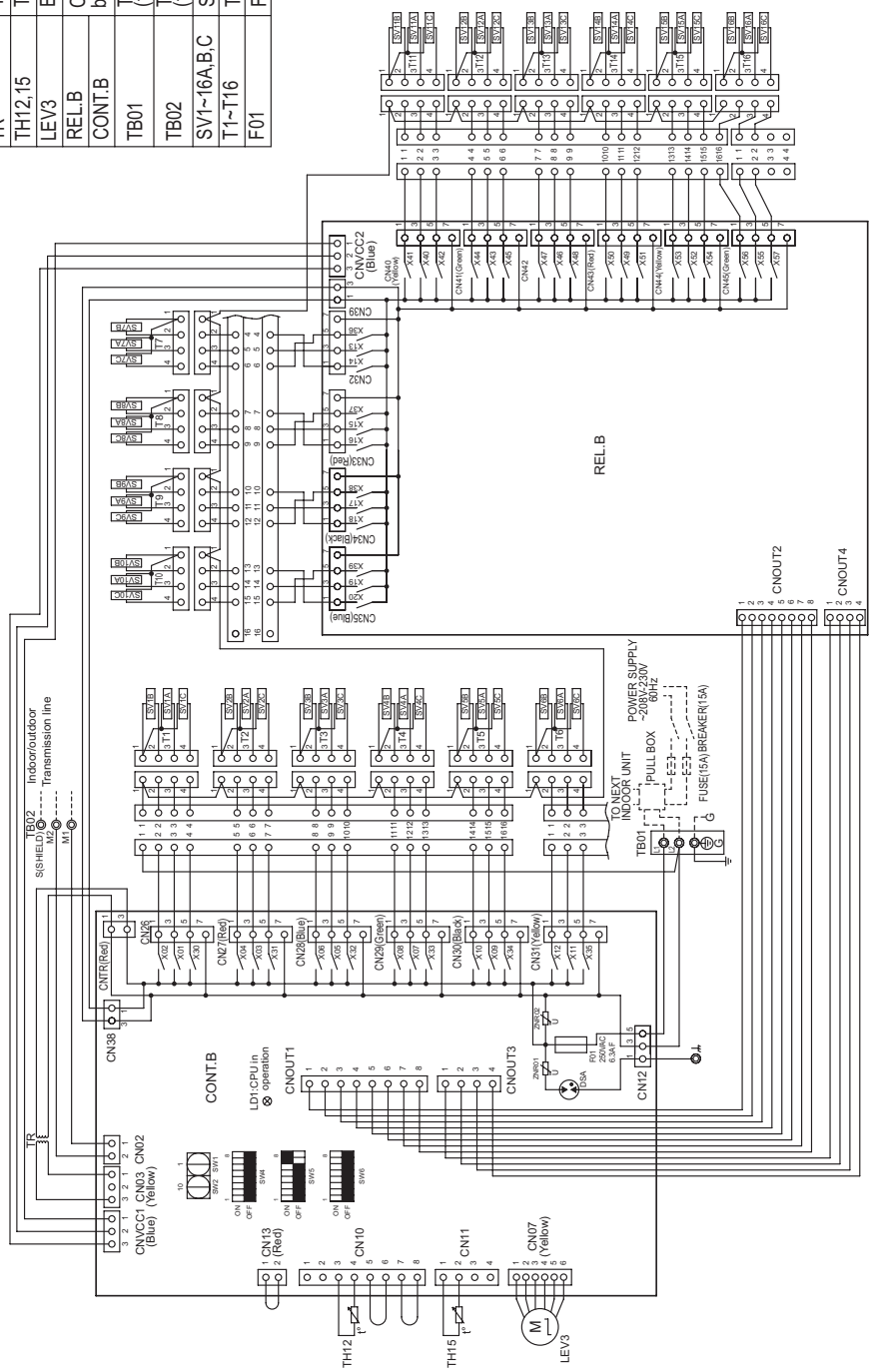


© 2017 Mitsubishi Electric US, Inc.

CMB-P1016NU-HB1

(Symbol explanation)

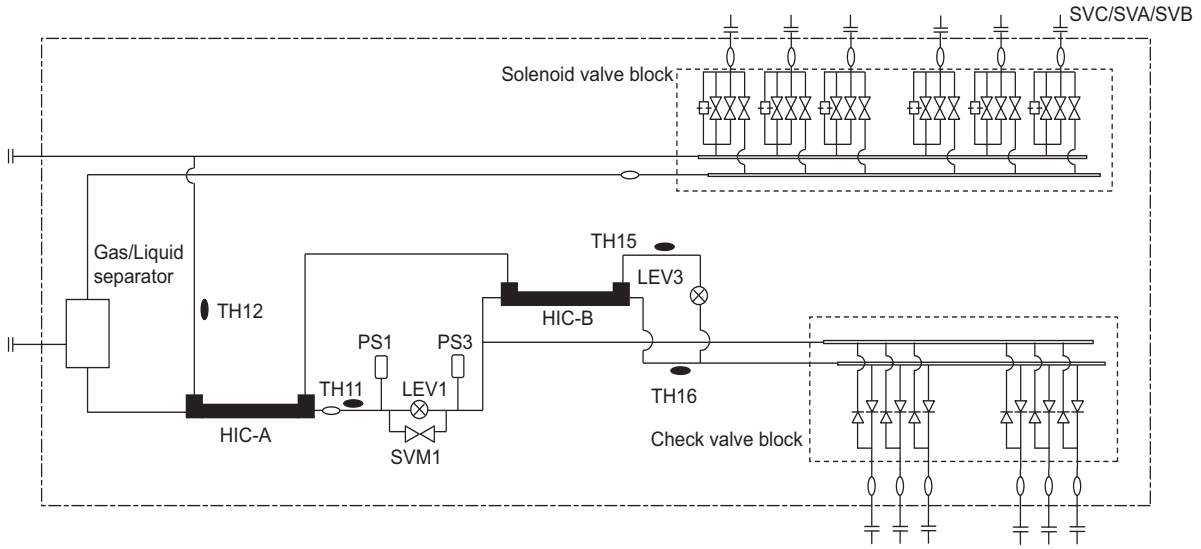
Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
REL.B	Circuit board / Relay
CONT.B	BC controller
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~16A,B,C	Solenoid valve
T1~T16	Terminal
F01	Fuse AC250V 6.3A F



Note:1.TB02 is transmission terminal block.Never connect power line to it.
2.The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0

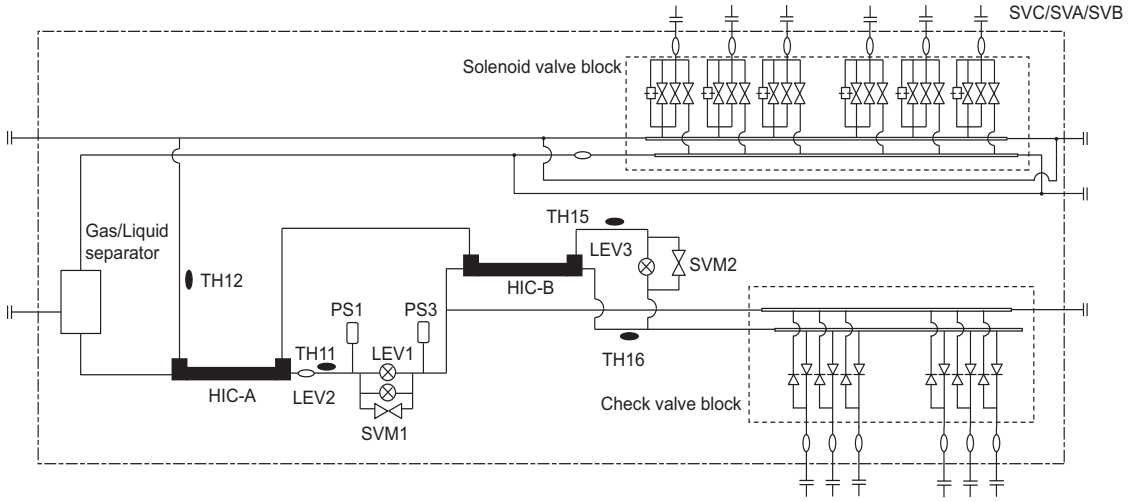
© 2017 Mitsubishi Electric US, Inc.

CMB-P105, 1016NU-G1 (Single)

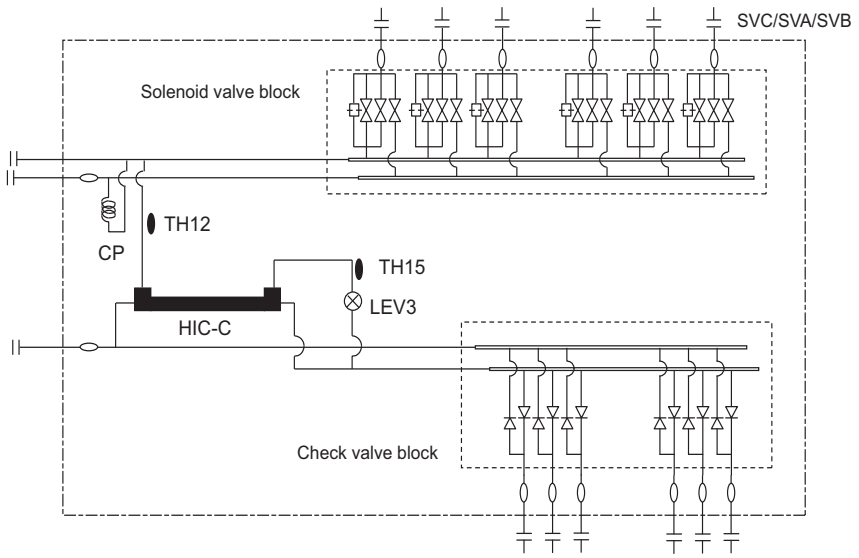


© 2017 Mitsubishi Electric US, Inc.

CMB-P1013 (Main)

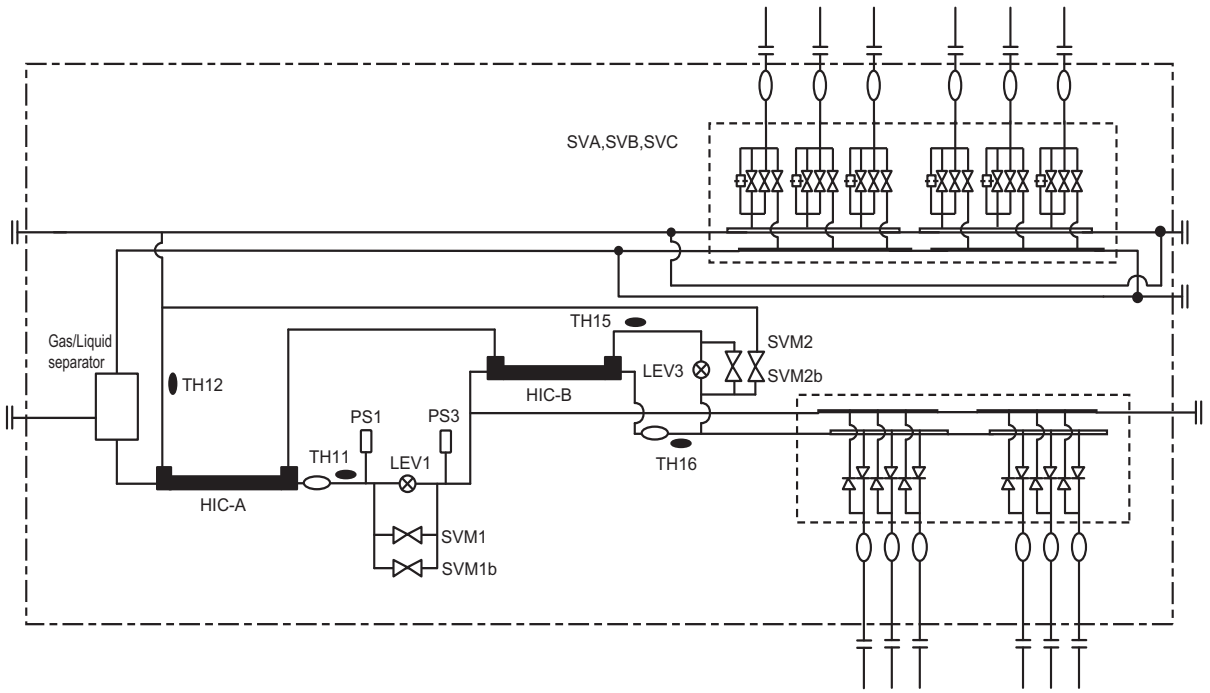


CMB-P104, P108NU-GB1 (Sub)

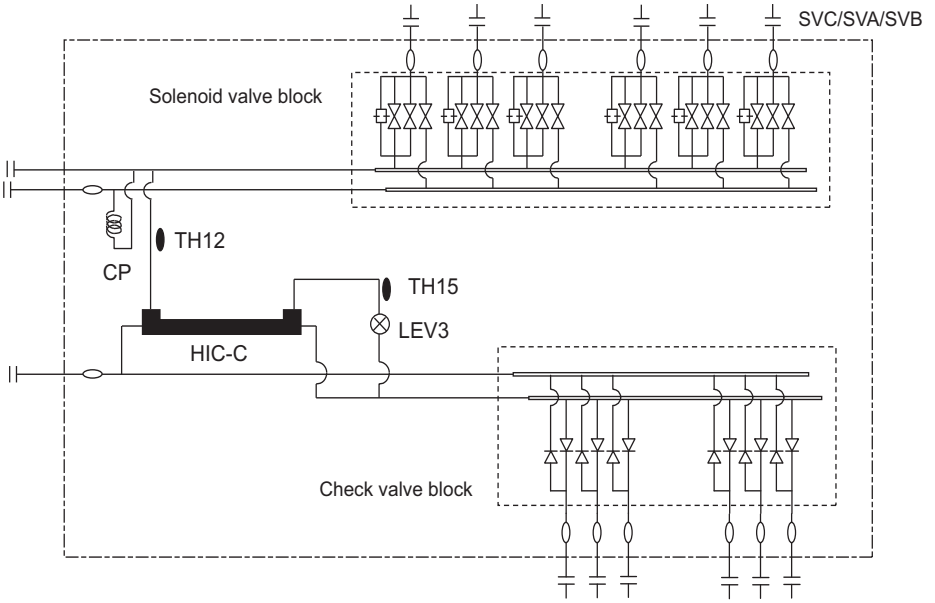


© 2017 Mitsubishi Electric US, Inc.

CMB-P108, P1010, P1016NU-HA1 (Main)



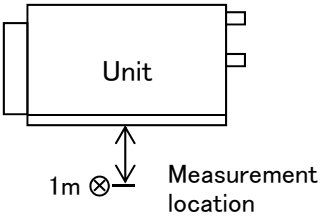
CMB-P1016NU-HB1 (Sub)



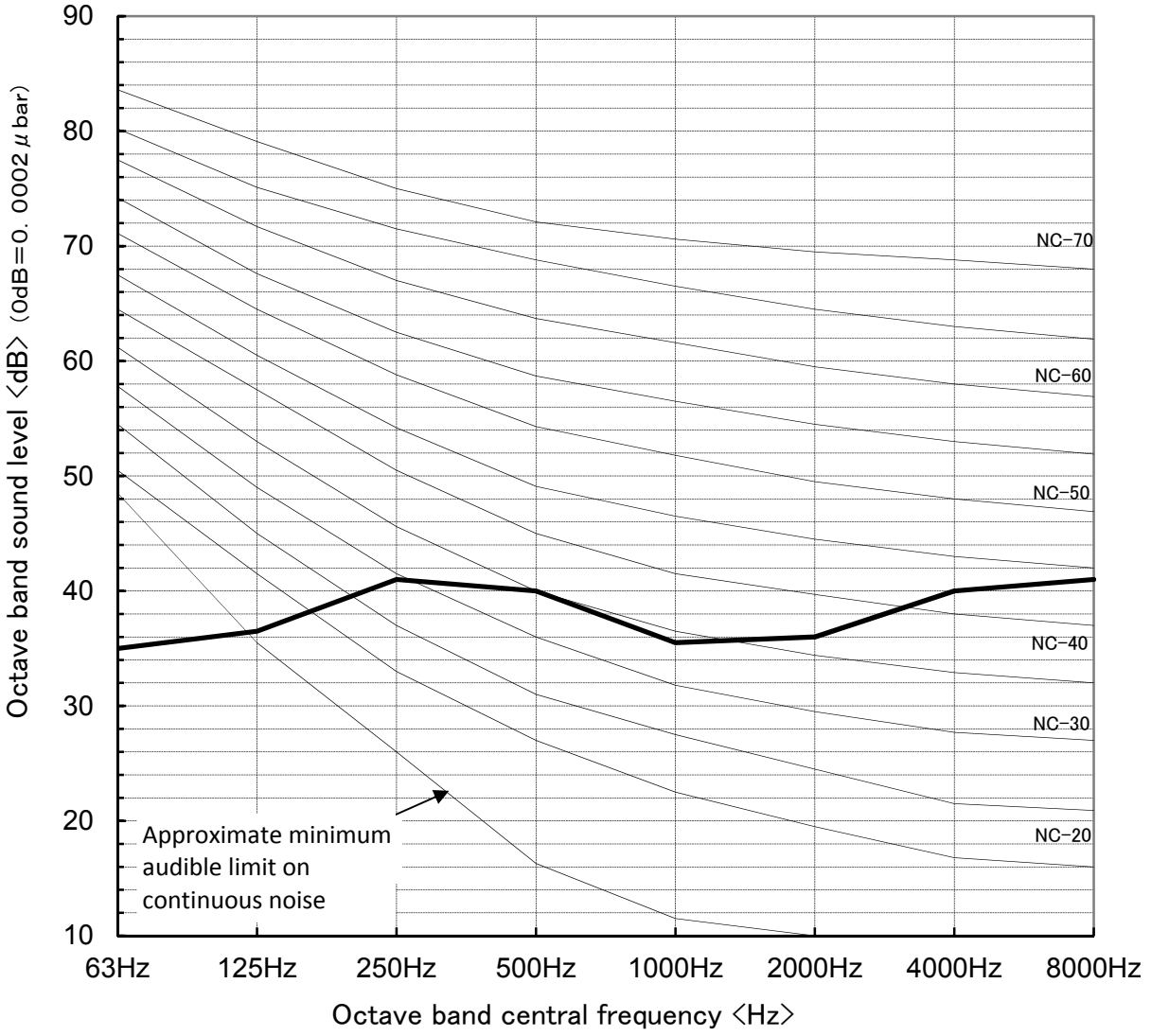
© 2017 Mitsubishi Electric US, Inc.

5. SOUND PRESSURE LEVELS

5-1. BC Controller Steady State Sound Pressure

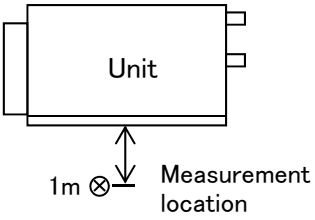


63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
35	36.5	41	40	35.5	36	40	41	46

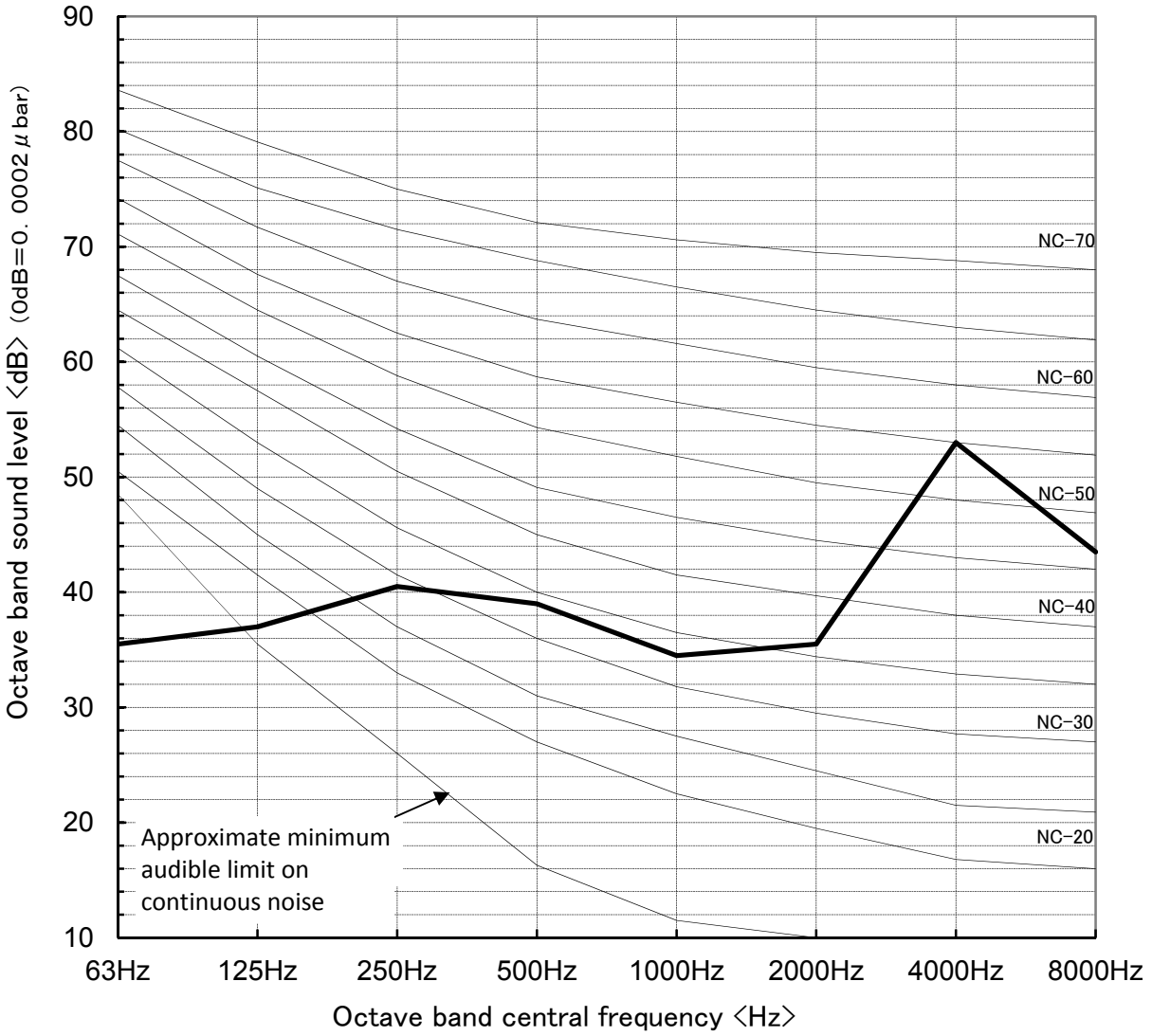


© 2017 Mitsubishi Electric US, Inc.

5-2. BC Controller Solenoid Switching Sound Pressure

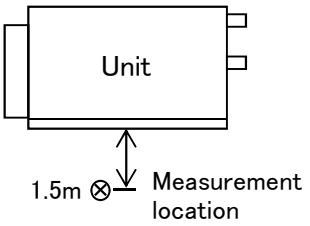


63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
35.5	37	40.5	39	34.5	35.5	53	43.5	56

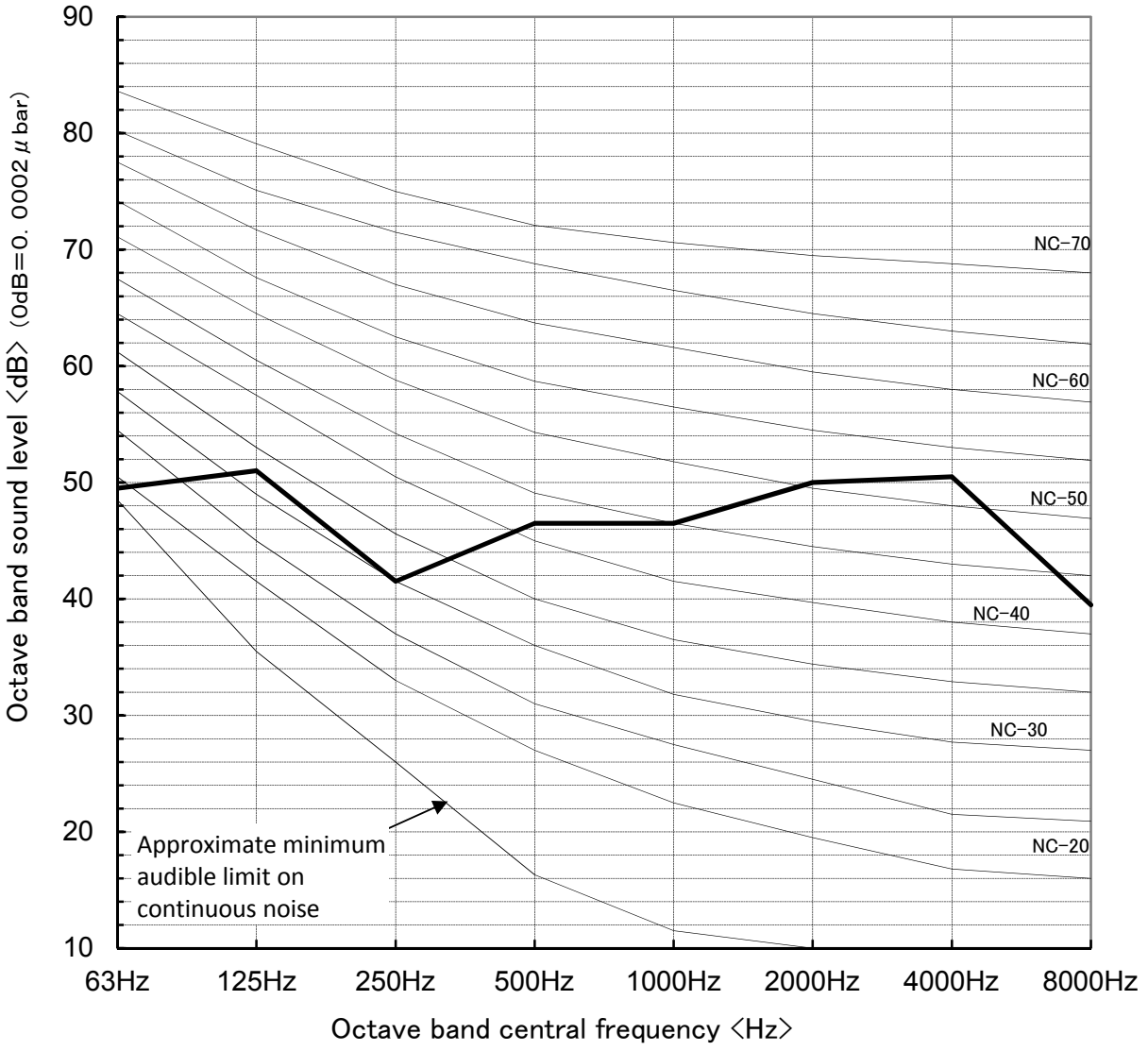


© 2017 Mitsubishi Electric US, Inc.

5-3. BC Controller Defrost Sound Pressure



63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
49.5	51.0	41.5	46.5	46.5	50.0	50.5	39.5	56



© 2017 Mitsubishi Electric US, Inc.

6. OPTIONAL PARTS

6-1. BV-Series Ball Valves

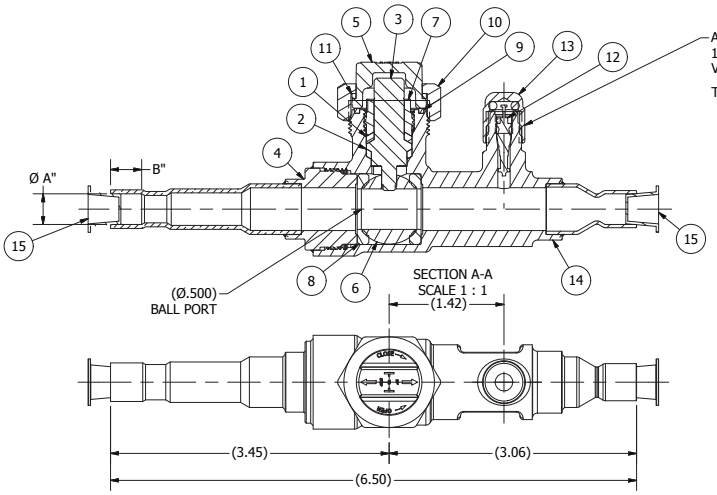
•Size available: 1/4”; 3/8”; 5/8”.
•Fully factory assembled.
•Furnace brazed and pressure tested.
•Each ball valve is equipped with 4-1/4” Schrader® Valve for refrigerant service.
•Design working pressure: 700 PSIG.
•Temperature range:-40˚ F to +325˚ F (-40˚ C to +149˚ C).
•Polytetrafluoroethylene (PTFE) seals and gaskets (no synthetic O-rings).
•Seal cap design permits valve operation without removal of seal cap.
•One year limited materials and workmanship warranty on Ball Valves.



C UL US
LISTED 891N
REFRIGERANT
VALVE

Part Number	SAE Braze	A	B	C	D	E
BV14BBSI	1/4"	6.26	2.67	1.81	1.23	1.42
BV38BBSI	3/8"	6.30	2.67	1.81	1.23	1.42
BV12BBSI	1/2"	6.51	2.67	1.81	1.23	1.42
BV58BBSI	5/8"	6.64	2.67	1.81	1.23	1.42

*Ball valves come with an insulation piece.

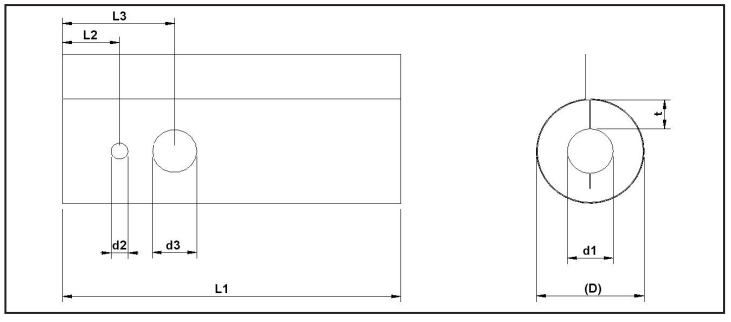


MATERIALS OF CONSTRUCTION		
ITEM	DESCRIPTION	MATERIAL
1	PACKING - UPPER	Acetal Resin, White Delrin
2	PACKING - LOWER	Acetal Resin, Black Delrin
3	STEM	Steel, High Strength Low Alloy
4	AUX BODY SUB ASY	Welded Brass, & Copper
5	SEAL CAP	Brass, C37700
6	BALL	Brass, C36000
7	PACKING NUT	Brass, Soft Yellow C3600
8	BALL SEAL	Generic PTFE
9	GASKET	Acetal Resin, White Delrin
10	SEAL CAP NUT	Brass, Soft Yellow C3600
11	SEAL CAP GASKET	Nylon-6/6
12	VALVE CORE	Stainless Steel
13	SEAL CAP (ACCESS)	C3600
14	UNI-BODY W/ACCESS	Brass, C37700
15	PROTECTIVE CAP	UHMW, Red

6-2. BV-Series Ball Valve Insulation

Materials:
• Insulation—Inner and outer layer Polyethylene foam (PEF)
• Covering—Adhesive tape of Polyvinyl chloride (PVC)
• Separator—Soft film of Polyvinyl chloride (PVC)





Physical Properties of the Insulation	
Density	1.87 lb./ft.^{3} (30 kg/m^3)
Heat Conductivity (at 23°C)	0.040 W/m•K
Tensile Strength	23 N/cm^2
Heat Resistant	≤176°F (≤80°C)
UL-94	HF-1

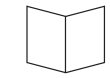
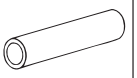
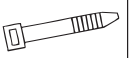
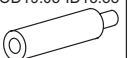
Model Number	d1	t	(D)	L1	(d2)	(d3)	(L2)	(L3)
HKG-20HF	1-3/8" (30mm)	3/4" (20mm)	2-3/4" (70mm)	8-9/16" (220mm)	7/8" (11mm)	1-9/64" (29mm)	1-15/32" (37mm)	2-7/8" (73mm)

© 2017 Mitsubishi Electric US, Inc.

6-3. CMY-R160-J1 Joint Adapter Kit for BC Controllers

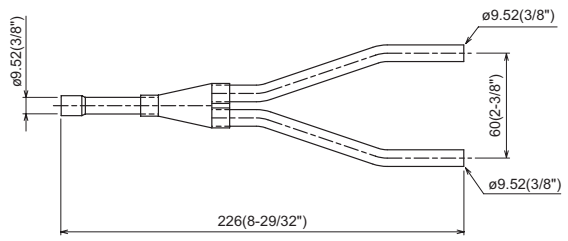
Joint kit "CMY-R160-J1" for BC controller is used to combine 2 ports of the BC controller at a PURY-P-T(S)LMU/Y(S)LMU system so as to enable down-stream Indoor capacity above P80 as shown in Fig. 1.

The Joint kit include following items:

①Instruction	②Joint pipe(Small)	③Joint pipe(Large)	④Cover 1	⑤Cover 2	⑥Cover 3	⑦Band	⑧Reducer 1	⑨Reducer 2
							OD19.05-ID22.2 	OD19.05-ID15.88 
This sheet 1pc	1pc	1pc	2pcs	1pc for gas side	1pc for liquid side	8pcs	1pc	1pc

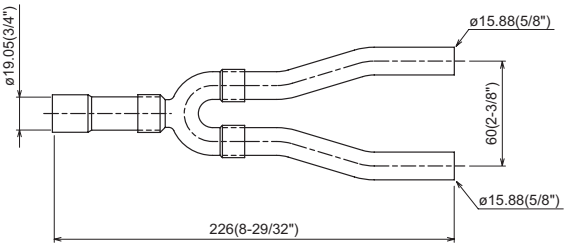
Please prepare the following items in the field. ①Tape for insulation material sealing ②Extension pipe for refrigerant circuit

②Joint pipe (for liquid side)



③Joint pipe (for gas side)

mm(in.)



1. Designing CMY-R160-J1 to a PURY-P-T(S)LMU/Y(S)LMU system

The maximum down-stream Indoor capacity for 1 port of BC controller is P54. When the down-stream Indoor capacity is above P54, Joint kit CMY-R160-J1 is needed to combined 2 ports of BC controller to enlarge the capacity, like Group 2 and 3 in Fig. 1.

Maximum 3 Indoor units are allowed to connect to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J1.

When connecting Indoor units to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J1 or CMY-Y102SS-G2 is applicable, like Group 1 and 2 in Fig. 1

Caution: Mixed cooling and heating mode at the same time for Indoor units connecting to 1 port or 2 combined ports is not available.

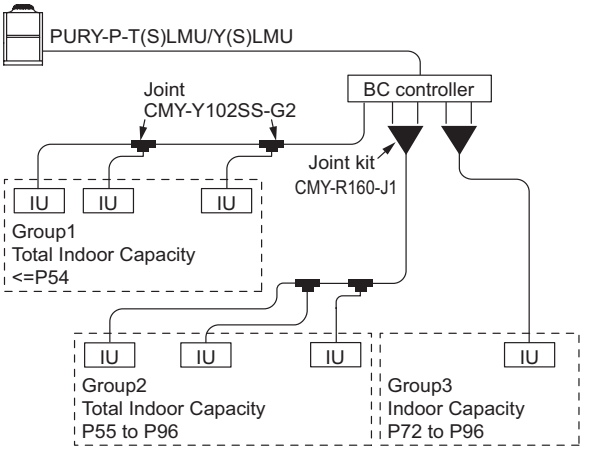
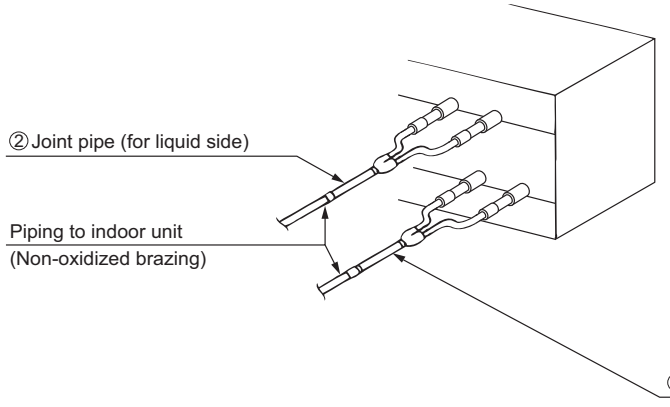


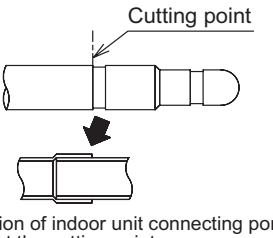
Fig.1. CMY-R160-J1 applying scheme

2. Piping at the installation site

The connection of CMY-R160-J1 to BC controller and pipe leading to Indoor units is referable to Fig. 2. Non-oxidized brazing is necessary. All piping must be careful to avoid foreign material getting inside.

After piping and air-tight testing, insulation work to the Joint and pipe should be done. Details is available at the Installation Manual.





Have pipe expansion of indoor unit connecting port by cutting the piping at the cutting point.
Remove burr after cutting the piping to prevent entering the piping.
Check that there is no crack at the pipe expansion part.

Fig.2. Connecting CMY-R160-J1

© 2017 Mitsubishi Electric US, Inc.