

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

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1. SPECIFICATIONS

Model name			CMB-P105NU-G		
Number of branches			5		
Power source			1-phase 208/230V		
			60Hz		
Power input (208/230)	Cooling	kW	0.073		
	Heating		0.033		
Current (208/230)	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-P72/96/120TKMU-A(-BS), PURY-P72/96/120YKMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A PURY-P72/96/120TJMU-A(-BS), PURY-P72/96/120YJMU-A(-BS), PURY-P72/96/120THMU-A(-BS), PURY-P72/96/120YHMU-A(-BS), PQRY-P72/96TGMU-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		To outdoor unit		
	capacity		High press. pipe		Low press. pipe
		to P72	5/8 (15.88)		3/4 (19.05)
		in. (mm) O.D.	Brazed		Brazed
		P73 to P108	3/4 (19.05)		7/8 (22.2)
		in. (mm) O.D.	Brazed		Brazed
	P109 to P126	3/4 (19.05)		1-1/8 (28.58)	
	in. (mm) O.D.	Brazed		Brazed	
			To indoor unit		
			Liquid pipe		Gas pipe
in. (mm) O.D.	3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (1/2 (12.7) with attached reducer used, 3/4 (19.05) and 7/8 (22.2) with optional joint pipe used.)		
Maximum connected capacity for all branches			189,000 Btu/h		189,000 Btu/h
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	
Remark					
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 sound (refrigerant sound) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background sound, position the BC CONTROLLER at least 5m [16 ft.] away from any indoor units.)					
4. The data presented is based on a specific combination.					

Ref.: Spec_CMB-P104-105NU-G

1. SPECIFICATIONS

Model name			CMB-P106NU-G		CMB-P108NU-G	
Number of branch			6		8	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230)	Cooling	kW	0.086	-	0.112	-
	Heating		0.040	-	0.053	-
Current (208/230)	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-P72/96/120TKMU-A(-BS), PURY-P72/96/120YKMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PURY-P72/96/120TJMU-A(-BS), PURY-P72/96/120YJMU-A(-BS), PQRY-P72/96/120THMU-A, PQRY-P72/96/120YHMU-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		To outdoor unit			
	capacity		High press. pipe		Low press. pipe	
		to P72	5/8 (15.88)		3/4 (19.05)	
		in. (mm) O.D.	Brazed		Brazed	
		P73 to P108	3/4 (19.05)		7/8 (22.2)	
		in. (mm) O.D.	Brazed		Brazed	
	P109 to P126	3/4 (19.05)		1-1/8 (28.58)		
	in. (mm) O.D.	Brazed		Brazed		
		To indoor unit				
	in. (mm) O.D.	Liquid pipe		Gas pipe		
3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (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	
Remark						
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.						

1. SPECIFICATIONS

Model name			CMB-P1010NU-G		CMB-P1013NU-G	
Number of branch			10		13	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230)	Cooling	kW	0.138	-	0.178	-
	Heating		0.066	-	0.086	-
Current (208/230)	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-P72/96/120TKMU-A(-BS), PURY-P72/96/120YKMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PURY-P72/96/120TJMU-A(-BS), PURY-P72/96/120YJMU-A(-BS), PQRY-P72/96/120THMU-A, PQRY-P72/96/120YHMU-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)		11-3/16 x 43-1/4 x 17-1/32 (284 x 1,098 x 432)	
Refrigerant piping diameter	Connectable outdoor unit		To outdoor unit			
	capacity		High press. pipe		Low press. pipe	
		to P72	5/8 (15.88)		3/4 (19.05)	
		in. (mm) O.D.	Brazed		Brazed	
		P73 to P108	3/4 (19.05)		7/8 (22.2)	
		in. (mm) O.D.	Brazed		Brazed	
	P109 to P126	3/4 (19.05)		1-1/8 (28.58)		
	in. (mm) O.D.	Brazed		Brazed		
			To indoor unit			
			Liquid pipe		Gas pipe	
in. (mm) O.D.		3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (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	
Remark						
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.						

1. SPECIFICATIONS

Model name			CMB-P1016NU-G	
Number of branch			16	
Power source			1-phase 208/230V	
			60Hz	-
Power input (208/230)	Cooling	kW	0.217	-
	Heating		0.106	-
Current (208/230)	Cooling	A	1.04/0.94	-
	Heating		0.51/0.46	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)	
Connectable outdoor unit			PURY-P72/96/120TKMU-A(-BS), PURY-P72/96/120YKMU-A(-BS), PURY-HP72/96TKMU-A, PURY-HP72/96YKMU-A, PURY-P72/96/120TJMU-A(-BS), PURY-P72/96/120YJMU-A(-BS), PQRY-P72/96/120THMU-A, PQRY-P72/96/120YHMU-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		To outdoor unit	
	capacity		High press. pipe	Low press. pipe
		to P72	5/8 (15.88)	3/4 (19.05)
		in. (mm) O.D.	Brazed	Brazed
		P73 to P108	3/4 (19.05)	7/8 (22.2)
		in. (mm) O.D.	Brazed	Brazed
	P109 to P126	3/4 (19.05)	1-1/8 (28.58)	
	in. (mm) O.D.	Brazed	Brazed	
			To indoor unit	
			Liquid pipe	Gas pipe
in. (mm) O.D.		3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)	5/8 (15.88) Flare (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	
Remark				
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.				

1. SPECIFICATIONS

Model name			CMB-P108NU-GA		CMB-P1010NU-GA		
Number of branch			8		10		
Power source			1-phase 208/230V				
			60Hz	-	60Hz	-	
Power input (208/230)	Cooling	kW	0.112	-	0.138	-	
	Heating		0.053	-	0.066	-	
Current (208/230)	Cooling	A	0.54/0.49	-	0.66/0.60	-	
	Heating		0.25/0.23	-	0.32/0.29	-	
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)KMU-A(-BS), PURY-P72/96/120/144/168/192/216/240Y(S)KMU-A(-BS), PURY-HP72/96/144/192T(S)KMU-A, PURY-HP72/96/144/192Y(S)KMU-A, PURY-P72/96/120/144/168/192/216/240T(S)JMU-A(-BS), PURY-P72/96/120/144/168/192/216/240Y(S)JMU-A(-BS), PQRY-P72/96/120/144/168/192/216/240T(S)HMU-A, PQRY-P72/96/120/144/168/192/216/240Y(S)HMU-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		To outdoor unit (PURY)				
	capacity		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		
	Connectable heat source unit		To heat source unit (PQRY)				
	capacity		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 P240 in. (mm) O.D.		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
	To indoor unit		Liquid pipe		Gas pipe		
	in. (mm) O.D.		3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (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	5/8 (15.88) Brazed	3/4 (19.05) Brazed		
			in. (mm) O.D.	3/8 (9.52) Brazed			
			P73 to P108	3/4 (19.05) Brazed	7/8 (22.2) Brazed		
			in. (mm) O.D.	3/8 (9.52) Brazed			
		P109 to P126	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed			
		in. (mm) O.D.	1/2 (12.7) Brazed				
	Field drain pipe size		in. (mm) O.D.	1-1/4 (32)		1-1/4 (32)	
Net weight		lbs (kg)	122 (55)		132 (59)		
Accessories			Drain Connection pipe(with flexible hose and insulation) Reducer		Drain Connection pipe(with flexible hose and insulation) Reducer		
Remark							
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.							

1. SPECIFICATIONS

Model name			CMB-P1013NU-GA		CMB-P1016NU-GA	
Number of branch			13		16	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230)	Cooling	kW	0.178	-	0.217	-
	Heating		0.086	-	0.106	-
Current (208/230)	Cooling	A	0.86/0.77	-	1.04/0.94	-
	Heating		0.41/0.37	-	0.51/0.46	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)			
Connectable outdoor unit			PURY-P72/96/120/144/168/192/216/240T(S)KMU-A(-BS), PURY-P72/96/120/144/168/192/216/240Y(S)KMU-A(-BS), PURY-HP72/96/144/192T(S)KMU-A, PURY-HP72/96/144/192Y(S)KMU-A, PURY-P72/96/120/144/168/192/216/240T(S)JMU-A(-BS), PURY-P72/96/120/144/168/192/216/240Y(S)JMU-A(-BS), PQRY-P72/96/120/144/168/192/216/240T(S)HMU-A, PQRY-P72/96/120/144/168/192/216/240Y(S)HMU-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		To outdoor unit (PURY)			
	capacity		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	
	Connectable heat source unit		To heat source unit (PQRY)			
	capacity		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 P240 in. (mm) O.D.		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
			To indoor unit			
			Liquid pipe		Gas pipe	
		in. (mm) O.D.	3/8 (9.52) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (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		To other BC controller			
	connected to this Sub BC controller		High press. pipe		Low press. pipe	
			Liquid pipe			
		to P72	5/8 (15.88) Brazed		3/4 (19.05) Brazed	
		in. (mm) O.D.	3/8 (9.52) Brazed			
		P73 to P108	3/4 (19.05) Brazed		7/8 (22.2) Brazed	
		in. (mm) O.D.	3/8 (9.52) Brazed			
	P109 to P126	3/4 (19.05) Brazed		1-1/8 (28.58) Brazed		
	in. (mm) O.D.	1/2 (12.7) Brazed				
Field drain pipe size	in. (mm) O.D.	1-1/4 (32)		1-1/4 (32)		
Net weight		lbs (kg)	148 (67)		162 (73)	
Accessories			Drain Connection pipe(with flexible hose and insulation) Reducer		Drain Connection pipe(with flexible hose and insulation) Reducer	
Remark						
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.						

1. SPECIFICATIONS

Model name			CMB-P1016NU-HA	
Number of branch			16	
Power source			1-phase 208/230 V 60Hz	
			60Hz	-
Power input (208/230)	Cooling	kW	0.274/0.353	-
	Heating		0.137/0.177	-
Current (208/230)	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-P72/96/120/144/168/192/216/240/264/288T(S)KMU-A(-BS), PURY-P72/96/120/144/168/192/216/240/264/288Y(S)KMU-A(-BS), PURY-HP72/96/144/192T(S)KMU-A, PURY-HP72/96/144/192Y(S)KMU-A, PURY-P72/96/120/144/168/192/216/240/264/288T(S)JMU-A(-BS), PURY-P72/96/120/144/168/192/216/240/264/288Y(S)JMU-A(-BS), PQRY-P72/96/120/144/168/192/216/240T(S)HMU-A, PQRY-P72/96/120/144/168/192/216/240Y(S)HMU-A	
Connectable BC controller		Main BC	- CMB-P104/108NU-GB, CMB-P1016NU-HB	
		Sub BC		
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		To outdoor unit (PURY)	
	capacity		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
	Connectable heat source unit		To heat source unit (PQRY)	
	capacity		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 P240 in. (mm) O.D.		1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
			To indoor unit	
			Liquid pipe	Gas pipe
	in. (mm) O.D.		3/8 (9.52) Flare (1/4 (6.35) with attached reducer used, 1/2 (12.7) with optional joint pipe used.)	5/8 (15.88) Flare (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		5/8 (15.88) Brazed	3/4 (19.05) Brazed
	in. (mm) O.D.		3/8 (9.52) Brazed	
	P73 to P108		3/4 (19.05) Brazed	7/8 (22.2) Brazed
	in. (mm) O.D.		3/8 (9.52) Brazed	
	P109 to P126		3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
	in. (mm) O.D.		1/2 (12.7) Brazed	
P127 to P144		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	
in. (mm) O.D.		1/2 (12.7) Brazed		
P145 to P168		7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	
in. (mm) O.D.		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	
Remark				
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.				

1. SPECIFICATIONS

Model name			CMB-P104NU-GB		CMB-P108NU-GB	
Number of branch			4		8	
Power source			1-phase 208/230V			
			60Hz	-	60Hz	-
Power input (208/230)	Cooling	kW	0.053	-	0.106	-
	Heating		0.027	-	0.053	-
Current (208/230)	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) Flare (1/4 (6.35) with attached reducer used.)		5/8 (15.88) Flare (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		5/8 (15.88) Brazed		3/4 (19.05) Brazed	
	in. (mm) O.D.		3/8 (9.52) Brazed			
	P73 to P108		3/4 (19.05) Brazed		7/8 (22.2) Brazed	
	in. (mm) O.D.		3/8 (9.52) Brazed			
	P109 to P126		3/4 (19.05) Brazed		1-1/8 (28.58) Brazed	
	in. (mm) O.D.		1/2 (12.7) 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	
Remark						
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.						

1. SPECIFICATIONS

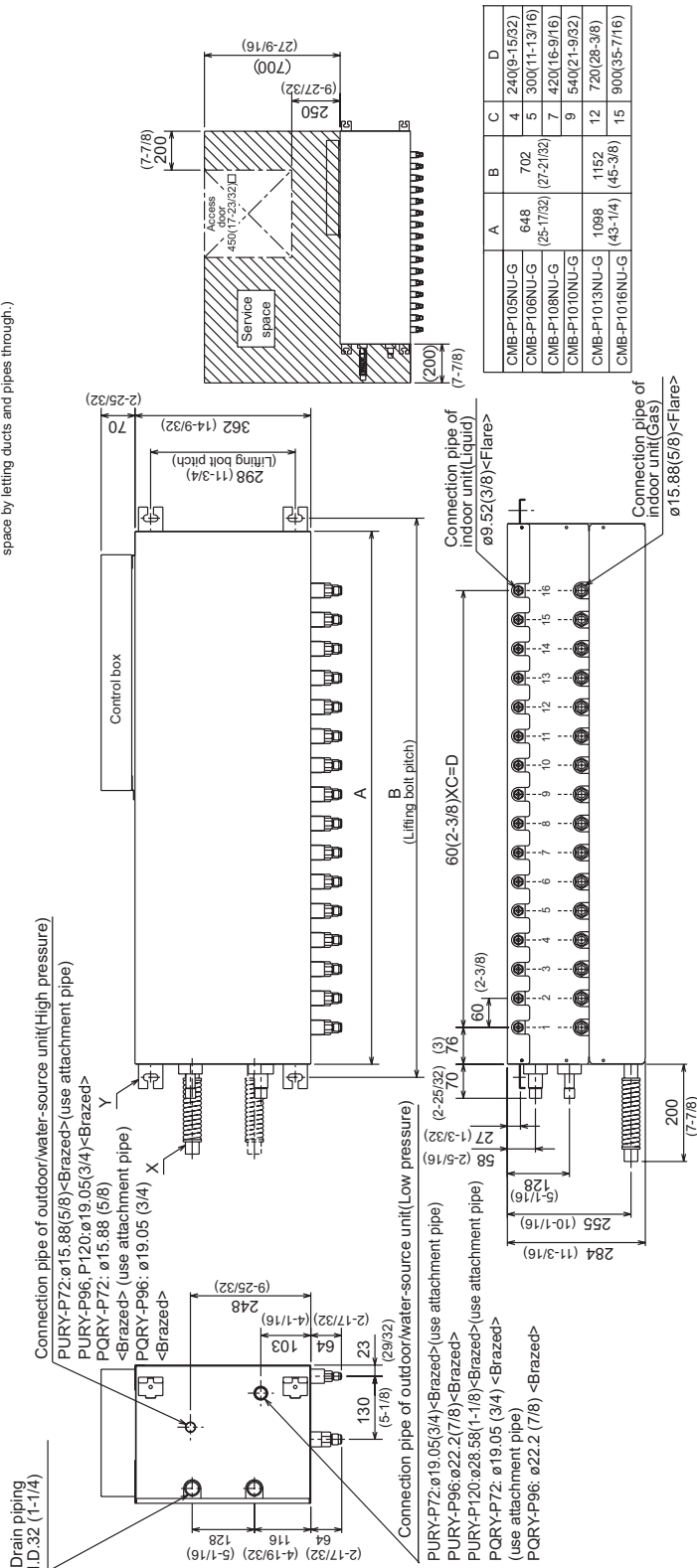
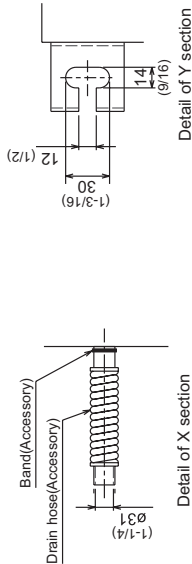
Model name			CMB-P1016NU-HB	
Number of branch			16	
Power source			1-phase 208/230 V 60Hz	
			60Hz	-
Power input (208/230)	Cooling	kW	0.314	-
	Heating		0.157	-
Current (208/230)	Cooling	A	1.17/1.37	-
	Heating		0.59/0.69	-
External finish			Galvanized steel plate (Lower part drain pan :Pre-coated galvanized sheets + powder coating)	
Connectable BC controller		Main BC	CMB-P108/1010/1013/1016NU-GA	
		Sub BC	CMB-P104/108NU-GB, CMB-P1016NU-HB	
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		To outdoor unit	
	capacity		High press. pipe	Low press. pipe
		in. (mm) O.D.	-	-
			To indoor unit	
	in. (mm) O.D.		Liquid pipe	Gas pipe
		(1/4 (6.35)with attached reducer used, 1/2 (12.7)with optional joint pipe used.)	3/8 (9.52) Flare	5/8 (15.88) Flare (1/2 (12.7)with attached reducer used, 3/4 (19.05)with optional joint pipe used.)
	Total indoor unit capacity		To other BC controller	
	connected to this Sub BC controller		High press. pipe	Low press. pipe
			Liquid pipe	
		to P72	5/8 (15.88) Brazed	3/4 (19.05) Brazed
		in. (mm) O.D.	3/8 (9.52) Brazed	
		P73 to P108	3/4 (19.05) Brazed	7/8 (22.2) Brazed
		in. (mm) O.D.	3/8 (9.52) Brazed	
		P109 to P126	3/4 (19.05) Brazed	1-1/8 (28.58) Brazed
		in. (mm) O.D.	1/2 (12.7) Brazed	
		P127 to P144	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
in. (mm) O.D.		1/2 (12.7) Brazed		
P145 to P168	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed		
in. (mm) O.D.	5/8 (15.88) 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	
Remark				
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 specifiedin this specifications. 2. The equipment is for R410A refrigerant. 3. For sub BC controller CMB-P1016NU-HB the connectable indoor unit capacities may sum to equal that of a P126 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P168 unit. 4. To use the Sub BC controller, the Main BC controller is necessary to be connected with. 5. 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.) 6. The data presented is based on a specific combination.				

2. EXTERNAL DIMENSIONS

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

Draw. : CMB-P-NU-G_W659644
Unit : mm(in)

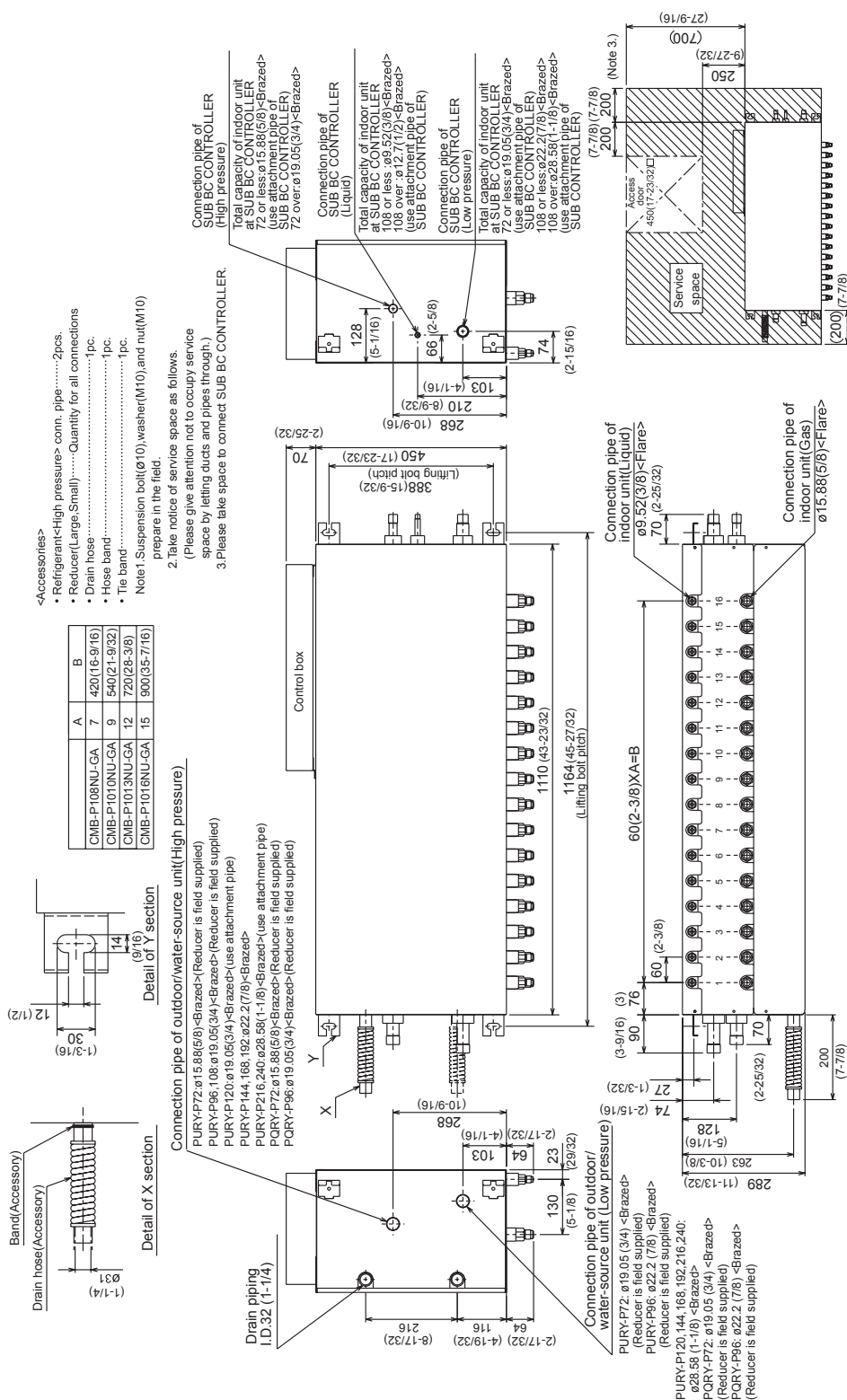
- <Accessories>
- Refrigerant<Low pressure> conn.pipe.....2pcs.
 - Refrigerant<High pressure> conn.pipe.....1pc.
 - Reducer(Large,Small).....Quantity for all connections
 - Drain hose.....1pc.
 - Hose band.....1pc.
 - Tie band.....1pc.
- Note 1: Suspension bolt(φ10), washer(M10), and nut(M10) prepare 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.)



	A	B	C	D
CMB-P105NU-G	648	702	4	240(9-15/32)
CMB-P106NU-G			5	300(11-13/16)
CMB-P108NU-G			7	420(16-9/16)
CMB-P1010NU-G			9	540(21-9/32)
CMB-P1013NU-G	1098	1152	12	720(28-3/8)
CMB-P1016NU-G			15	900(35-7/16)

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Drw. : CMB-P-NU-GA_W659642
Unit : mm(in)

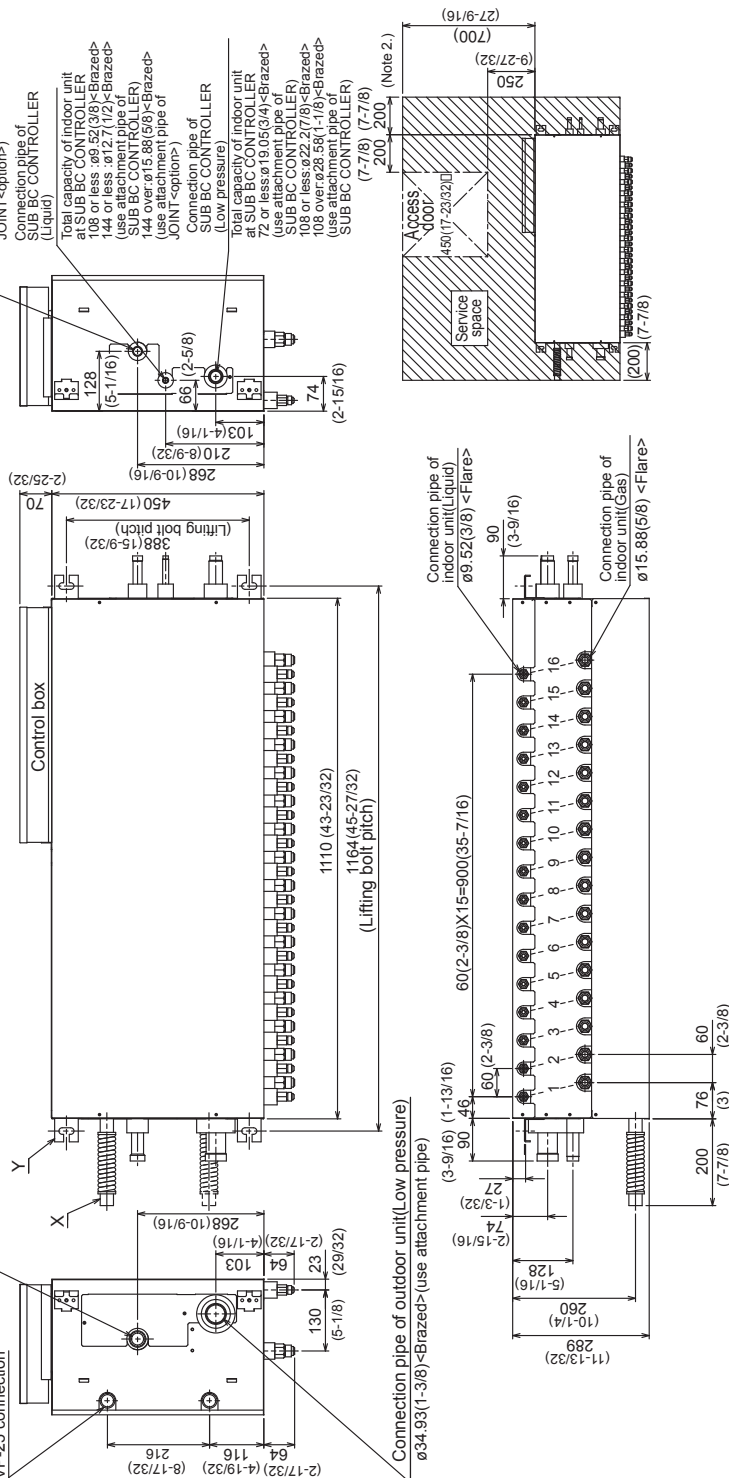
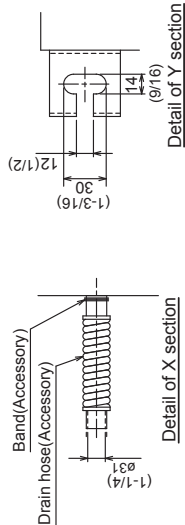


CMB-P1016NU-HA

- Refrigerant<Low pressure> conn. pipe.....1pc.
- Reducer(Large-Small).....Quantity for all connections
- Drain hose(VP-25 connection).....1pc.
- Hose band.....1pc.
- Tie band.....1pc.

Note1.Suspension bolt(ø10),washer(M10),and nut(M10)

prepare in the field.
Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
Please take space to connect SUB BC CONTROLLER.
When using an outdoor unit-P264 or more, use this product.
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 (16feet) away from any interior space.)



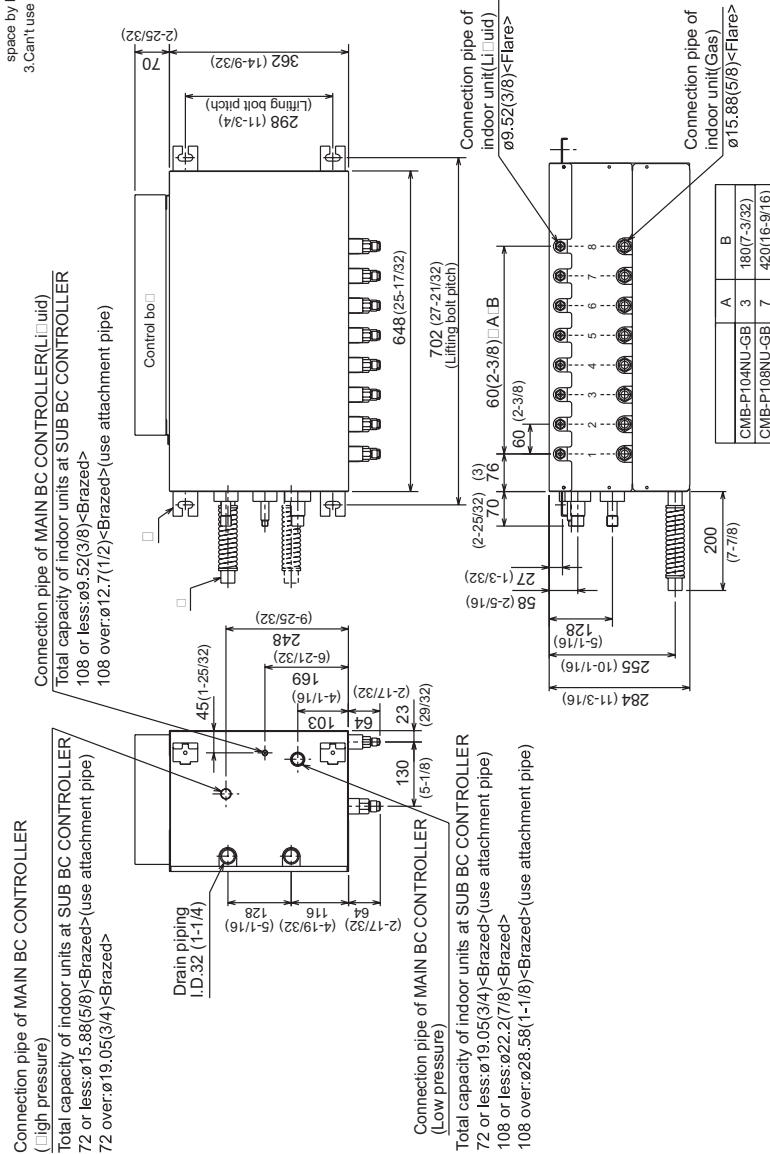
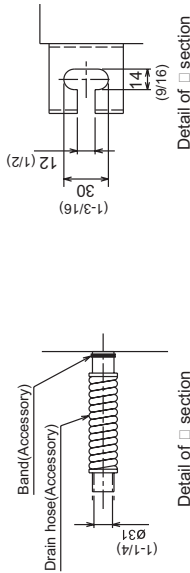
2. EXTERNAL DIMENSIONS

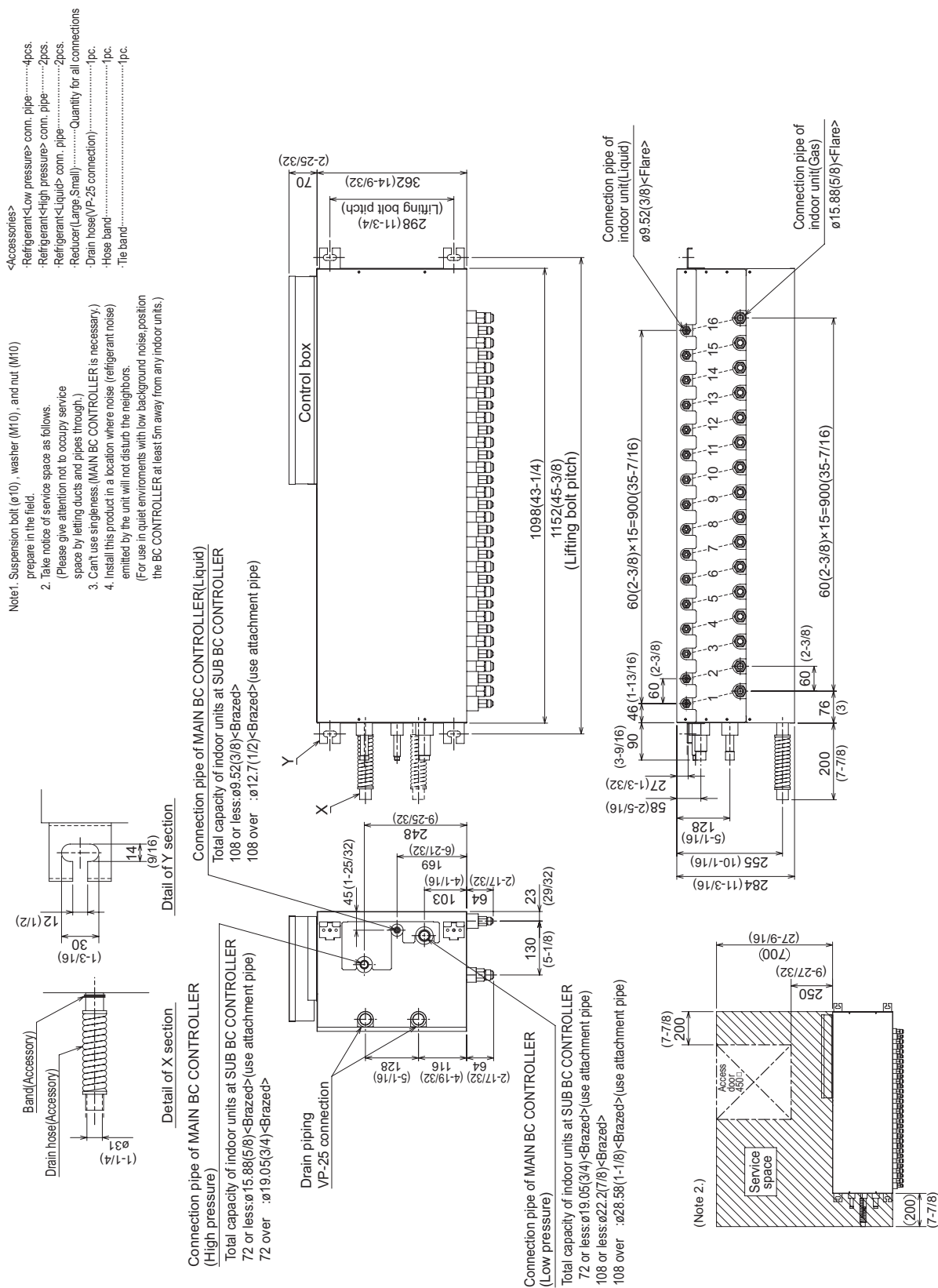
CMB-P104,108NU-GB

Drw. : CMB-P-NU-GB_W659643

Unit : mm(in)

- <Accessories>
- Refrigerant<Low pressure> conn. pipe..... 4pcs.
 - Refrigerant<High pressure> conn. pipe..... 2pcs.
 - Refrigerant<Liquid> conn. pipe..... 2pcs.
 - Reducer<Large,Small>.....Quantity for all connections
 - Drain hose.....1pc.
 - Hose band.....1pc.
 - Tie band.....1pc.
- Note1.Suspension bolt(ø10),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.Can't use singleness.(MAIN BC CONTROLLER is necessary.)

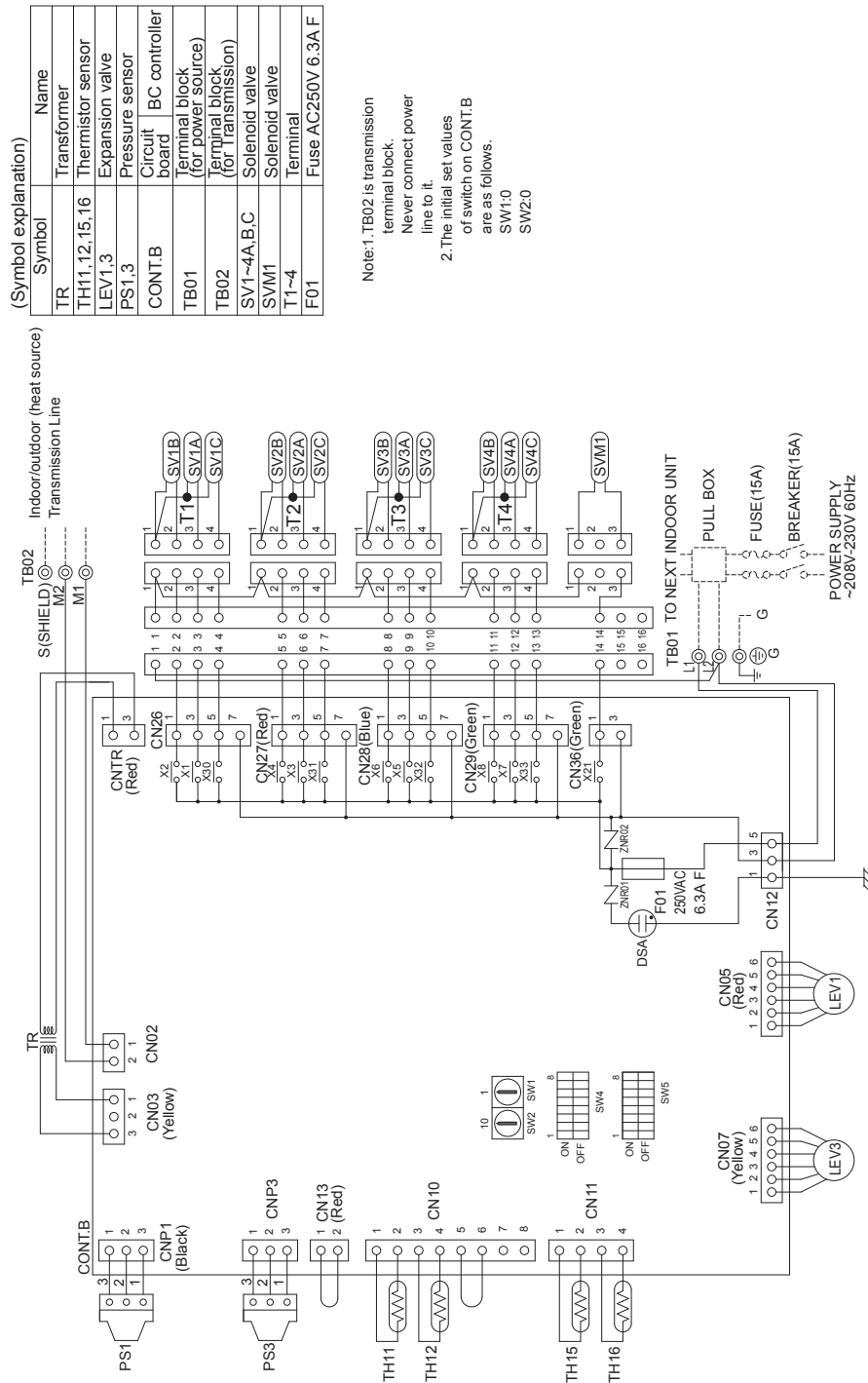




3. ELECTRICAL WIRING DIAGRAMS

CMB-P104NU-G

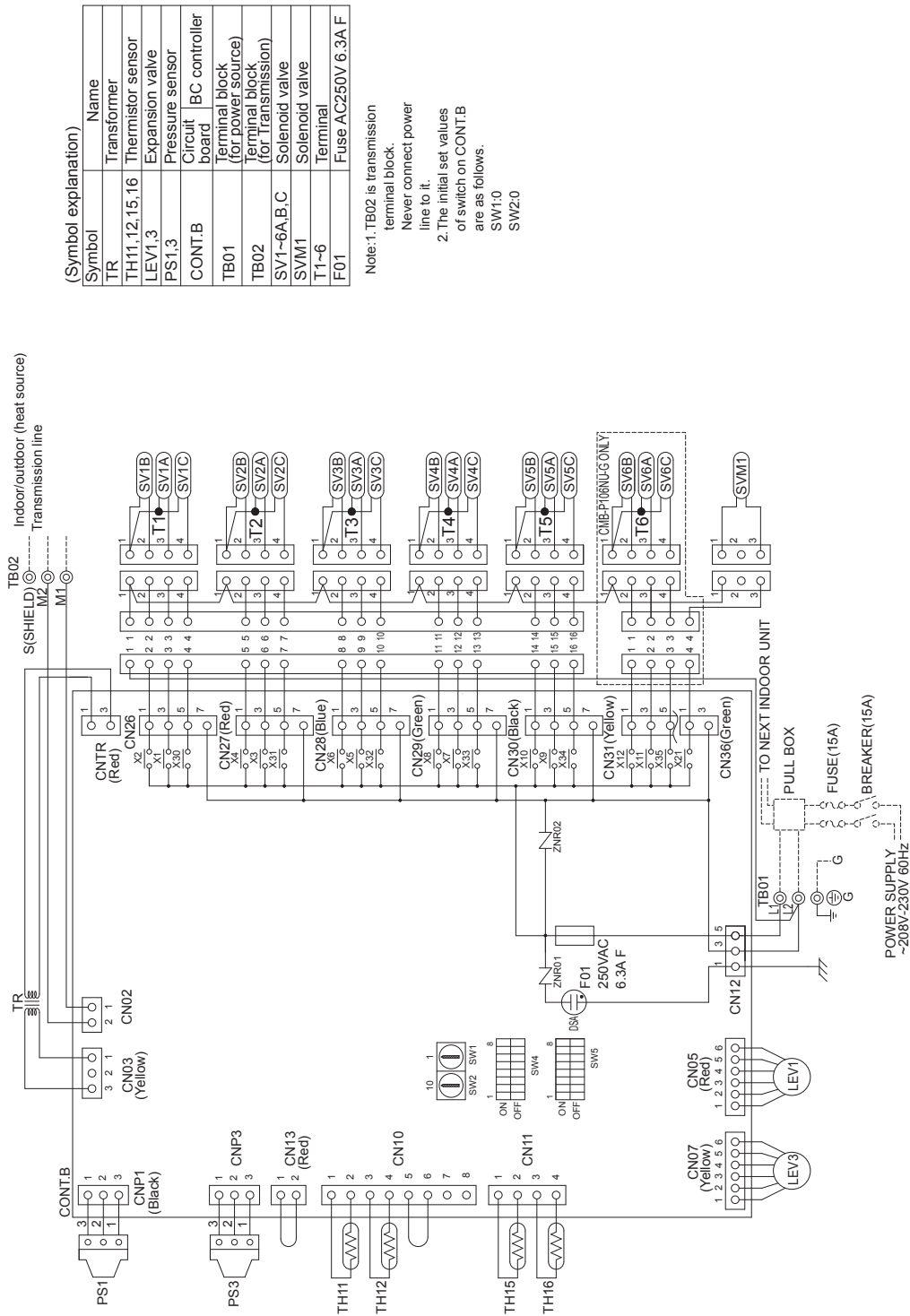
Ref.: CMB_NU-G_EWD_USDB_P104



3. ELECTRICAL WIRING DIAGRAMS

CMB-P105,106NU-G

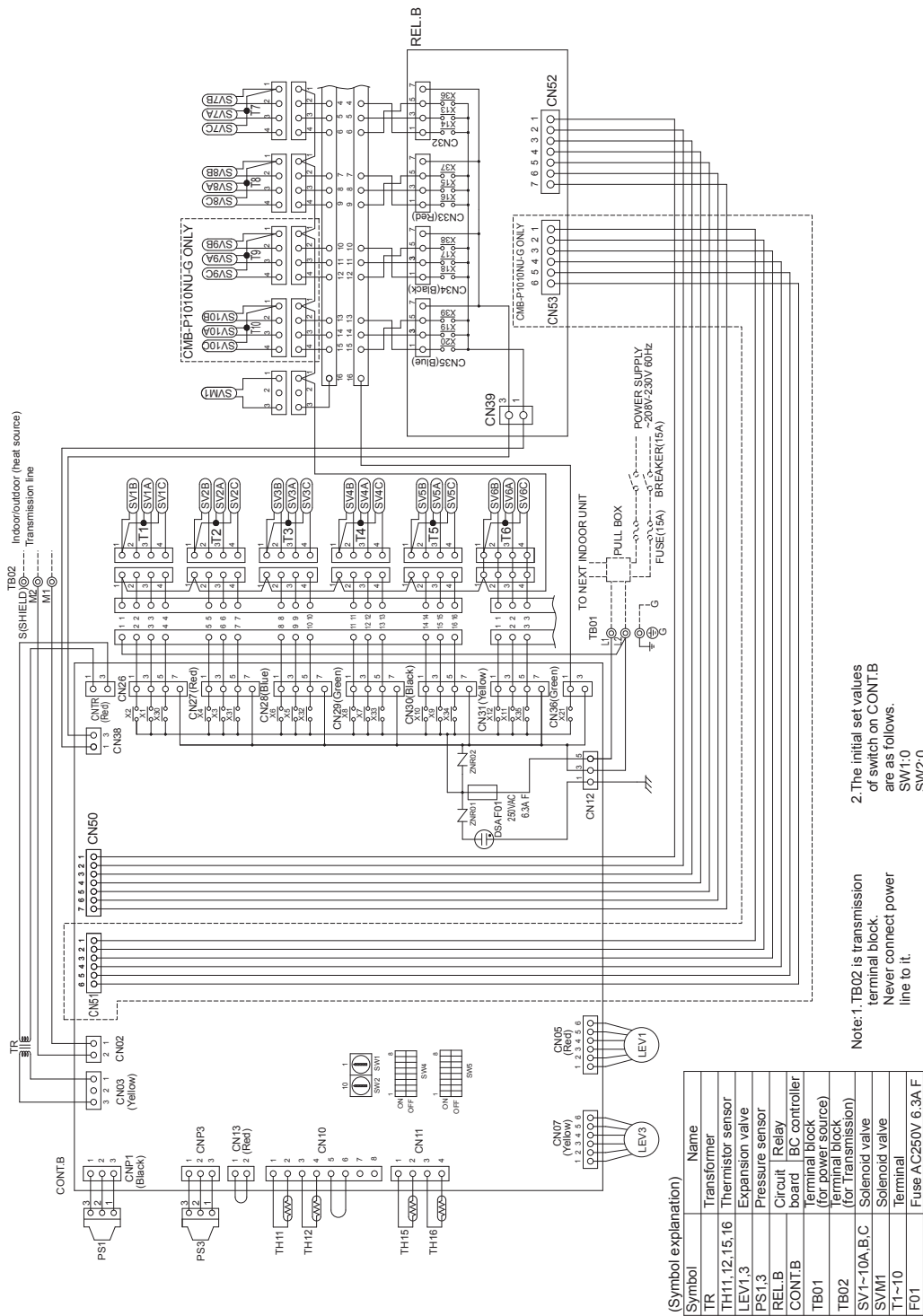
Ref. : CMB_NU-G_EWD_USDB_P105-106



3. ELECTRICAL WIRING DIAGRAMS

CMB-P108,1010NU-G

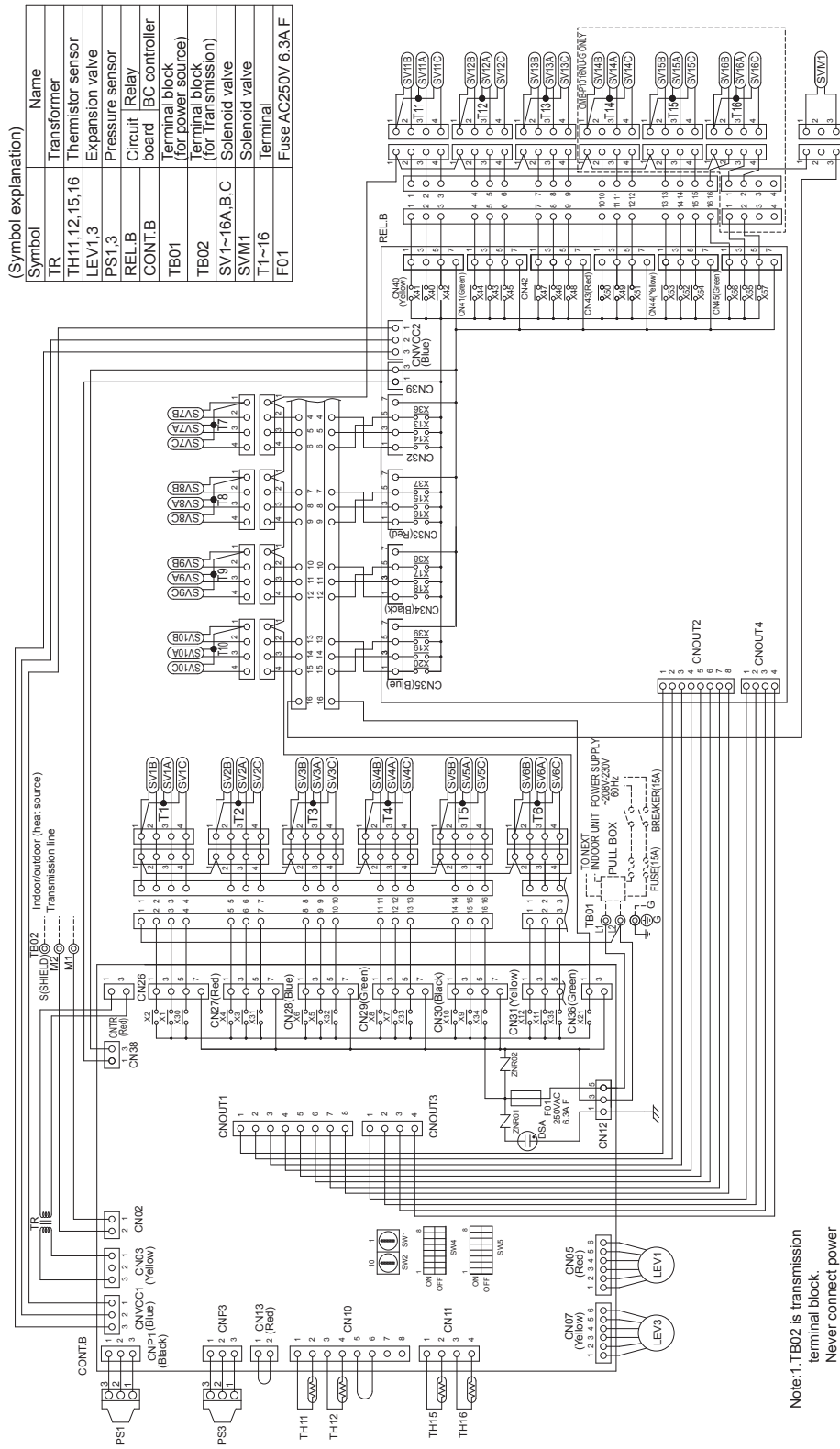
Ref. : CMB_NU-G_EWD_USDB_P108-1010



3. ELECTRICAL WIRING DIAGRAMS

CMB-P1013,1016NU-G

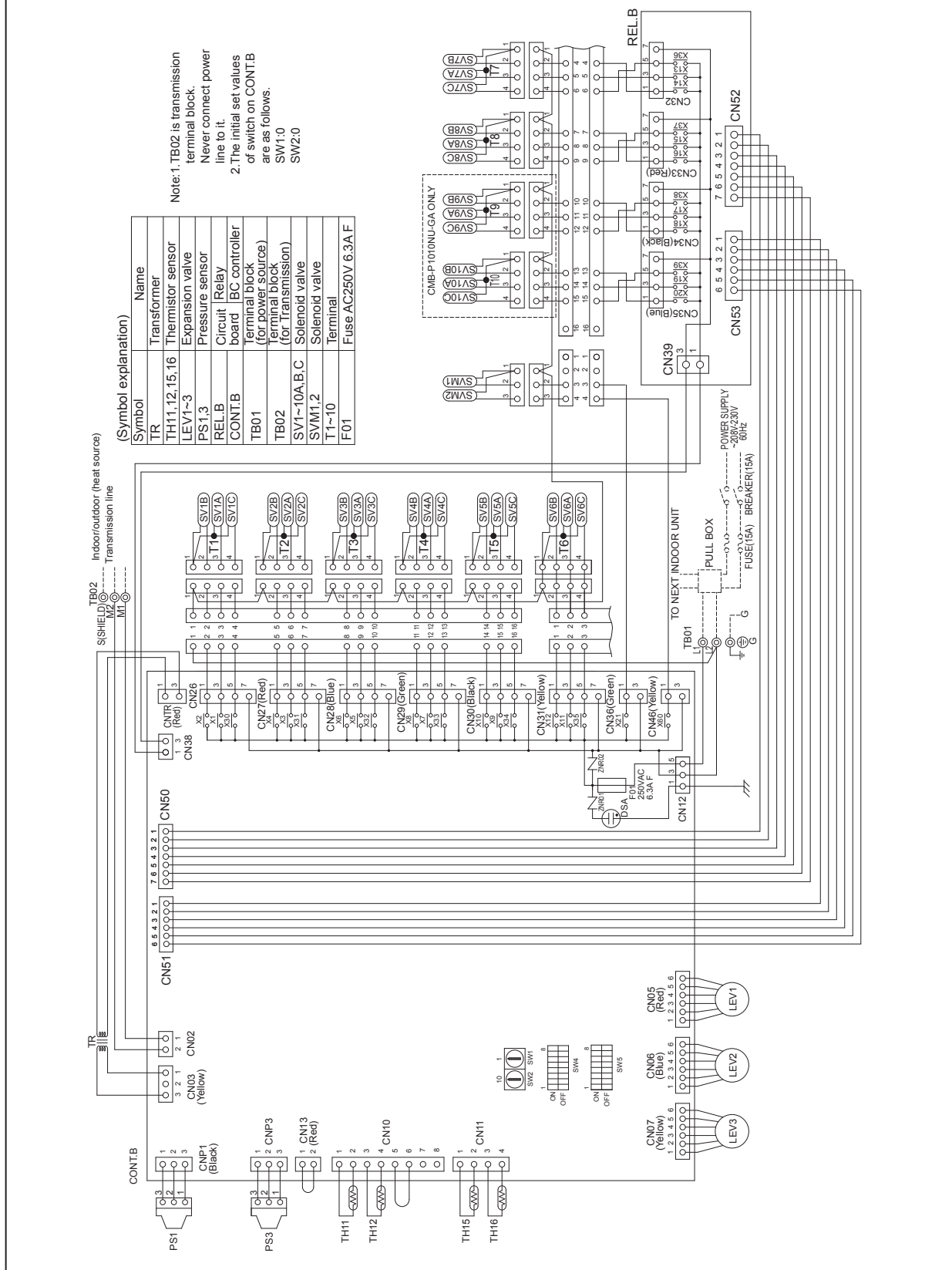
Ref. : CMB_NU-G_EWD_USDB_P1013_1016



3. ELECTRICAL WIRING DIAGRAMS

CMB-P108,1010NU-GA

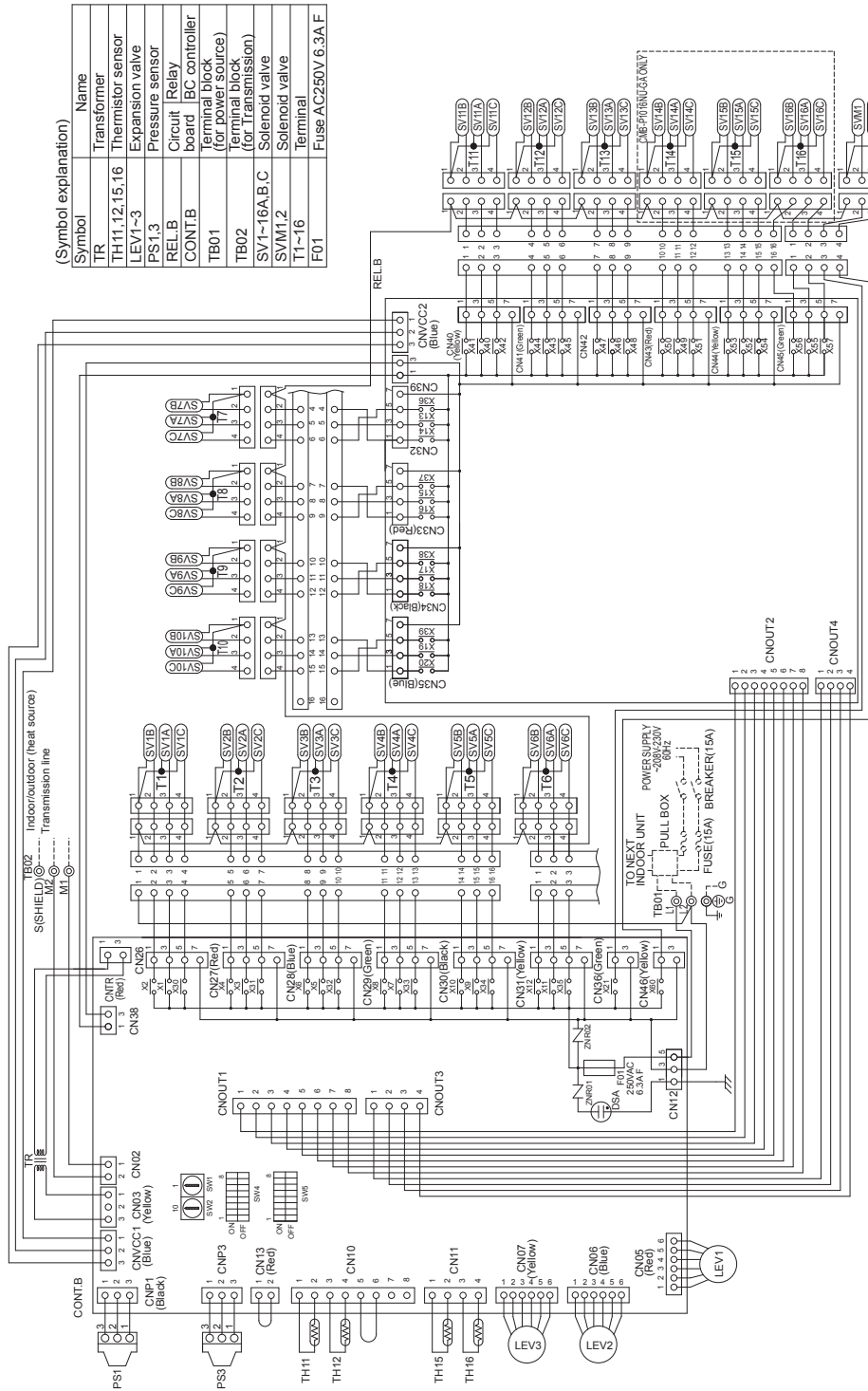
Ref. : CMB_NU-GA_EWD_USDB_P108-1010



3. ELECTRICAL WIRING DIAGRAMS

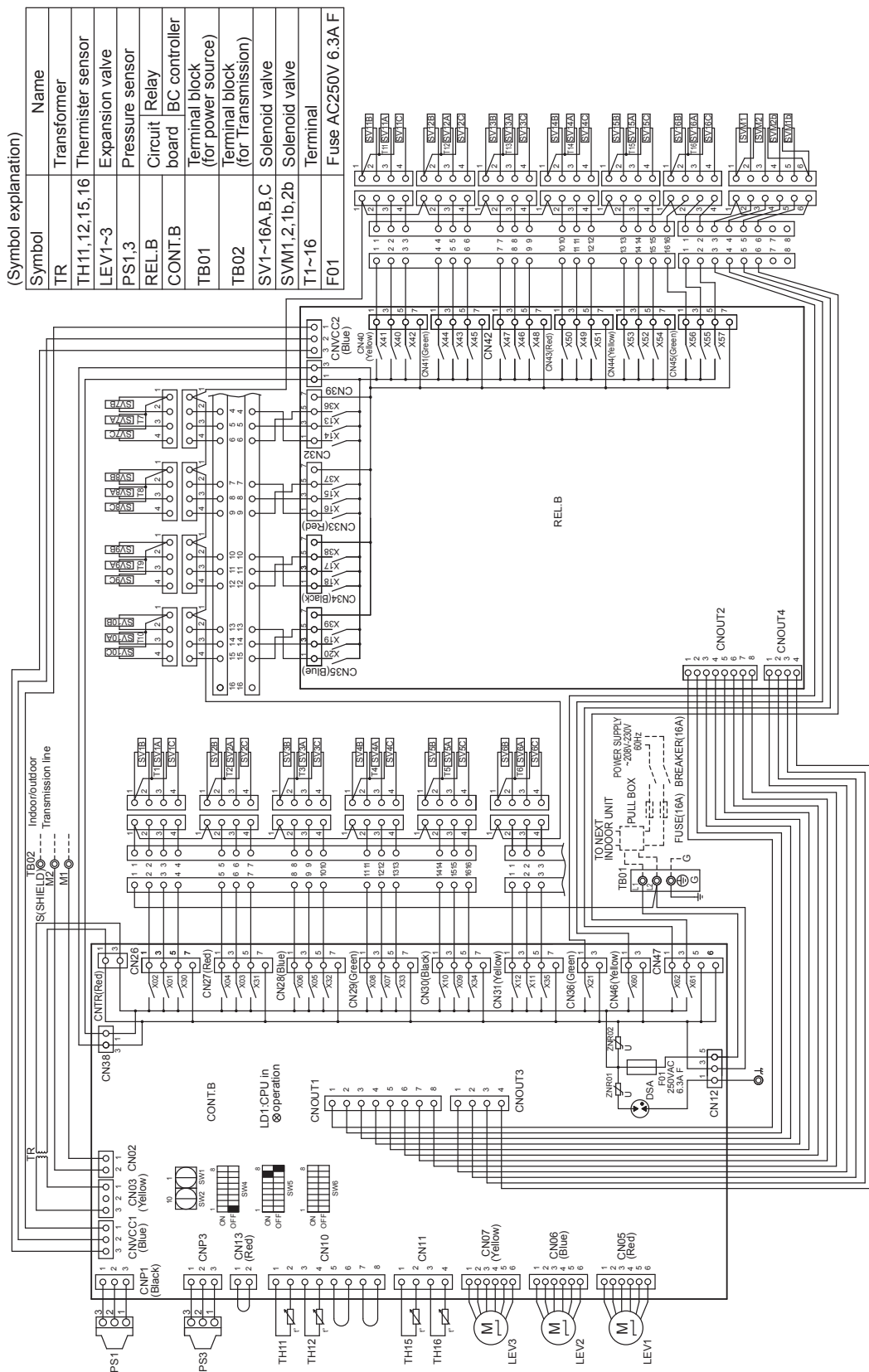
CMB-P1013NU-GA

Ref. : CMB_NU-GA_EWD_USDB_P1013-1016



3. ELECTRICAL WIRING DIAGRAMS

CMB-P101016NU-HA



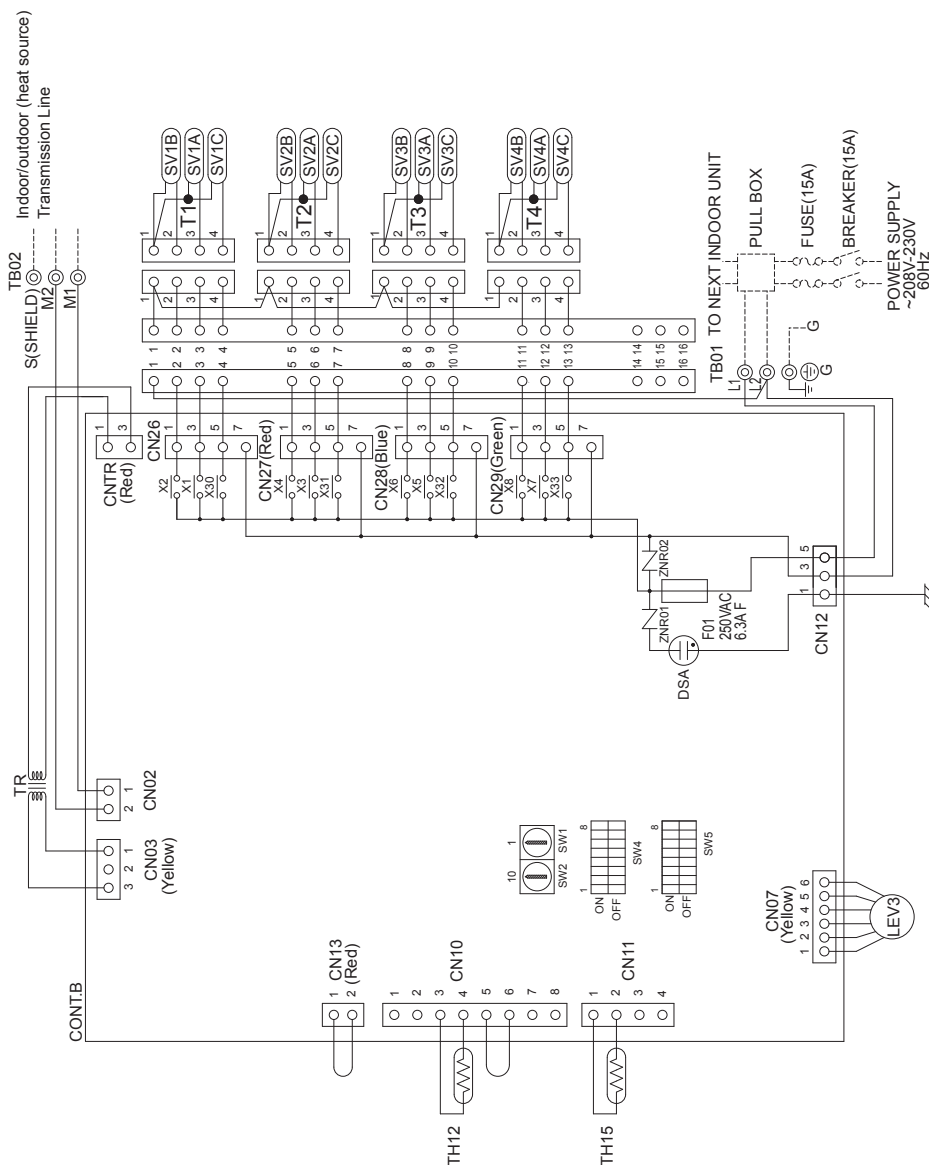
3. ELECTRICAL WIRING DIAGRAMS

CMB-P104NU-GB

Ref. : CMB_NU-GB_EWD_USDB_P104

(Symbol explanation)	Name
TR	Transformer
TH12, 15	Thermistor sensor
LEV3	Expansion valve
CONT.B	Circuit board
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

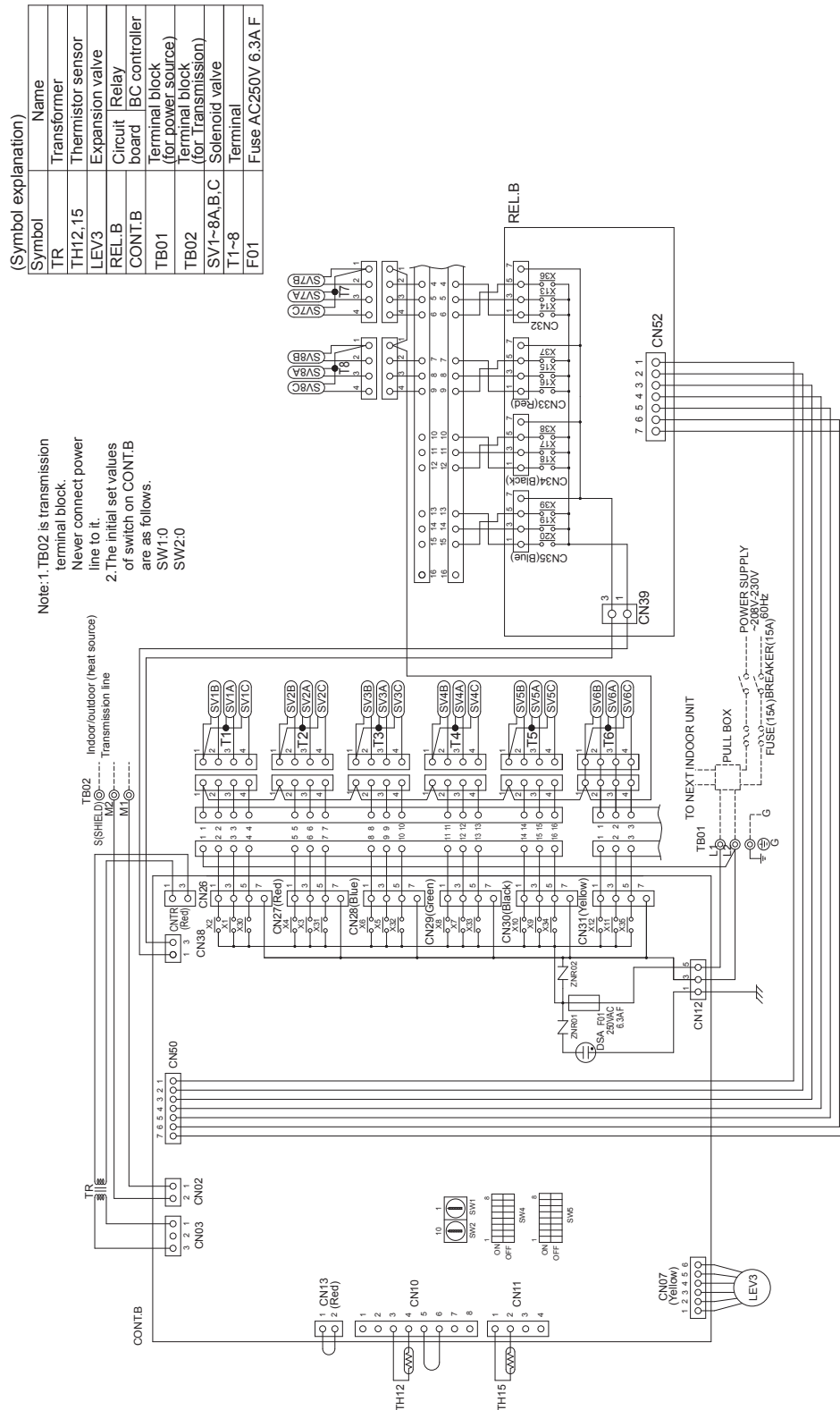
Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



3. ELECTRICAL WIRING DIAGRAMS

CMB-P108NU-GB

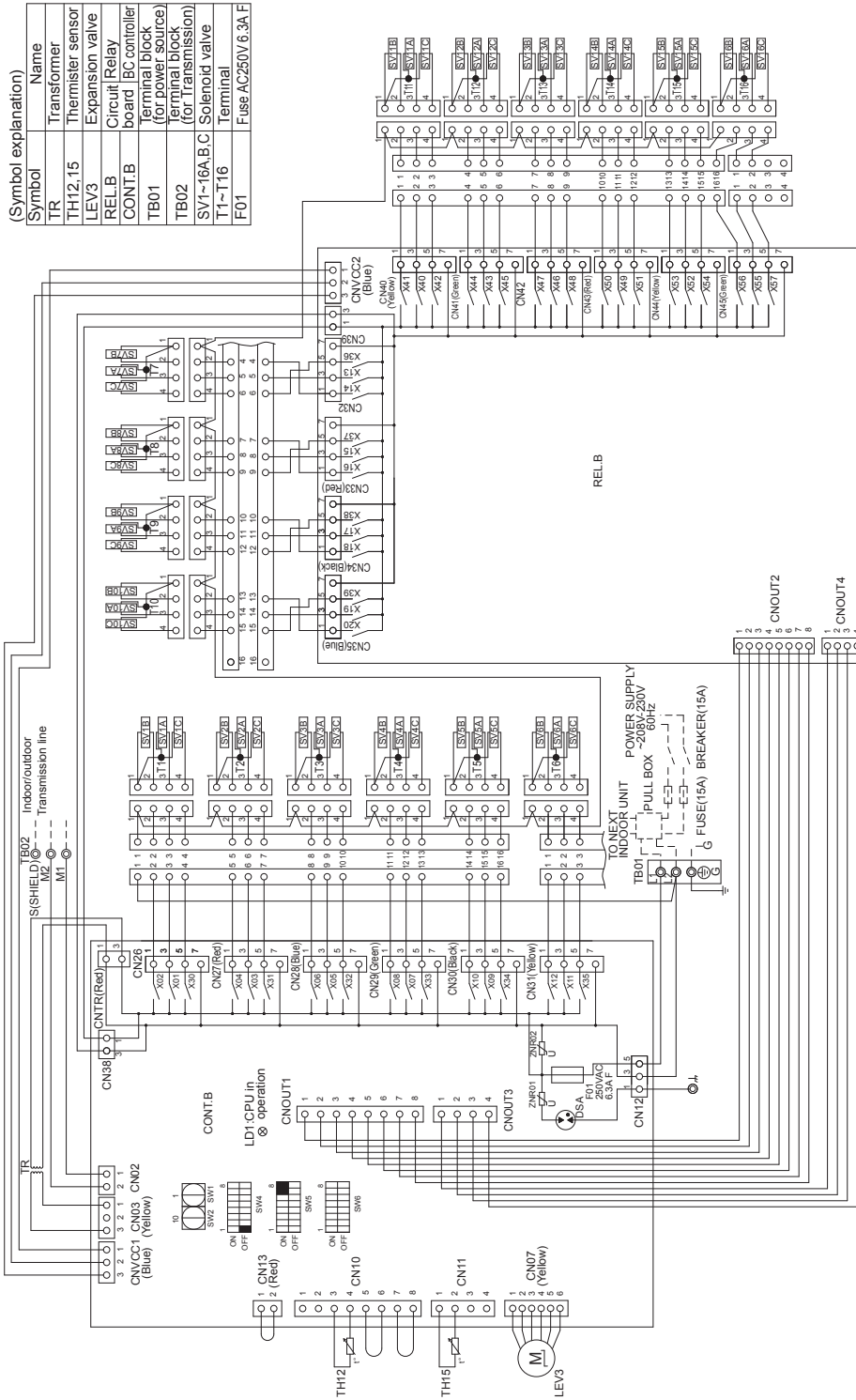
Ref.: CMB_NU-GB_EWD_USDB_P108



3. ELECTRICAL WIRING DIAGRAMS

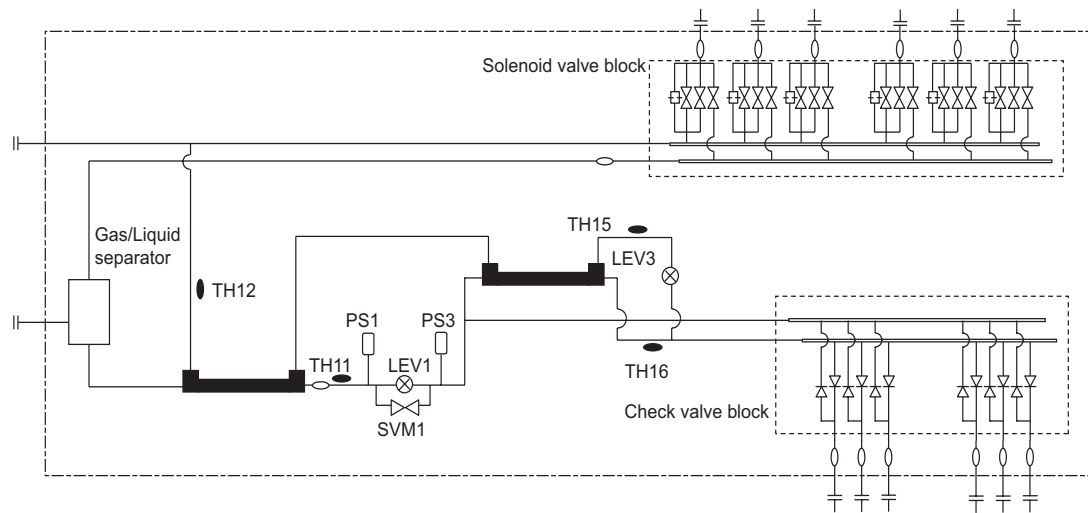
CMB-P1016NU-HB

Ref. : CMB_NU-HB_EWD_USDB_P1016



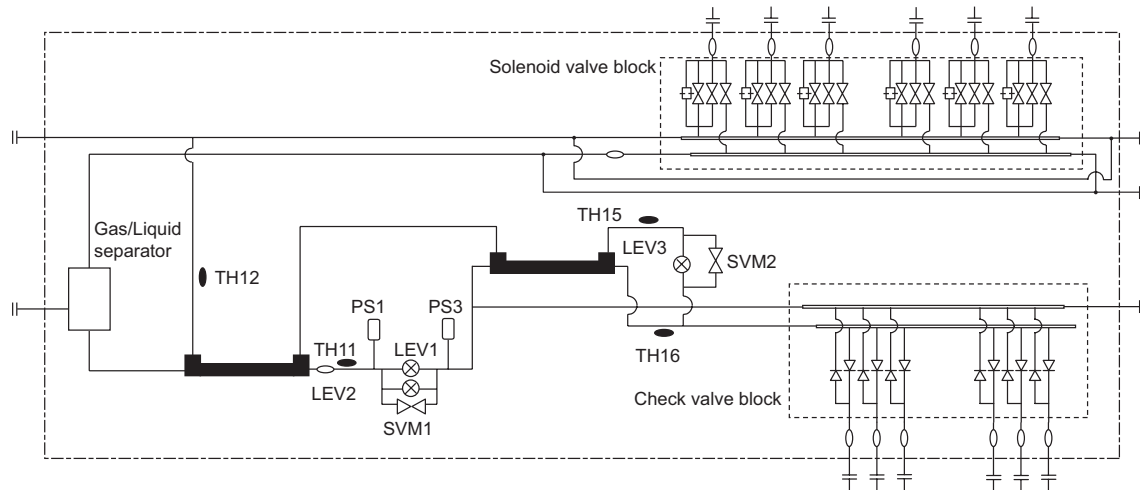
4. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

CMB-P104 - P1016NU-G (Single)

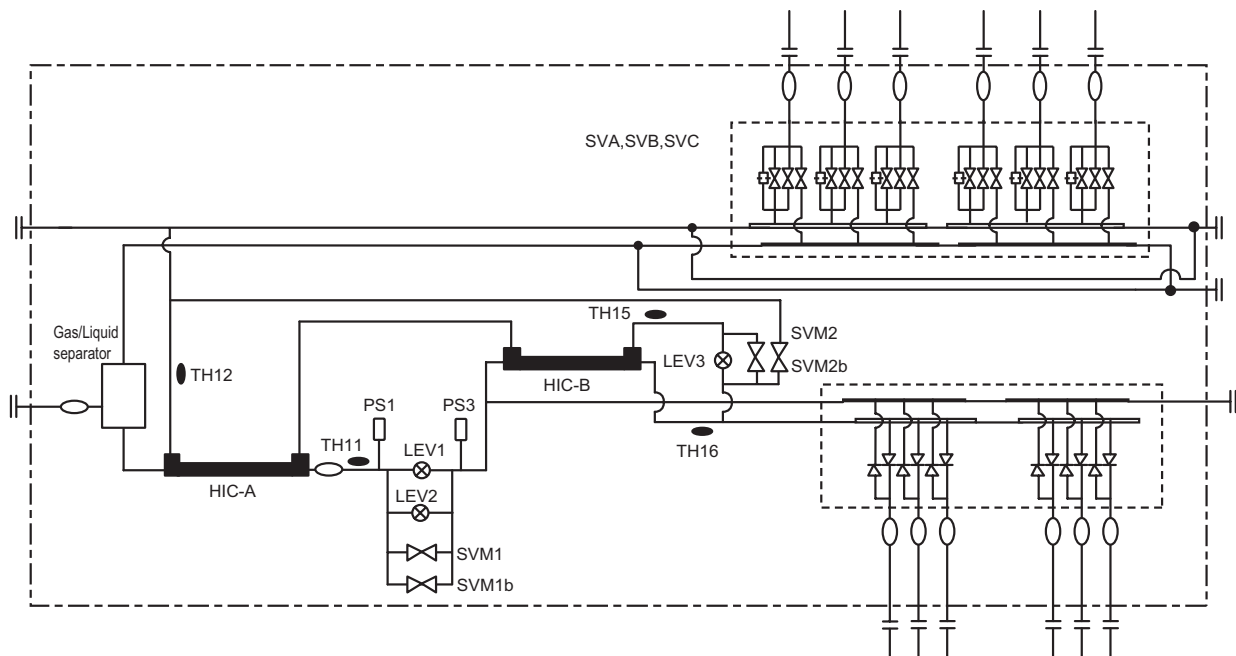


4. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

CMB-P108, P1013NU-GA (Main)

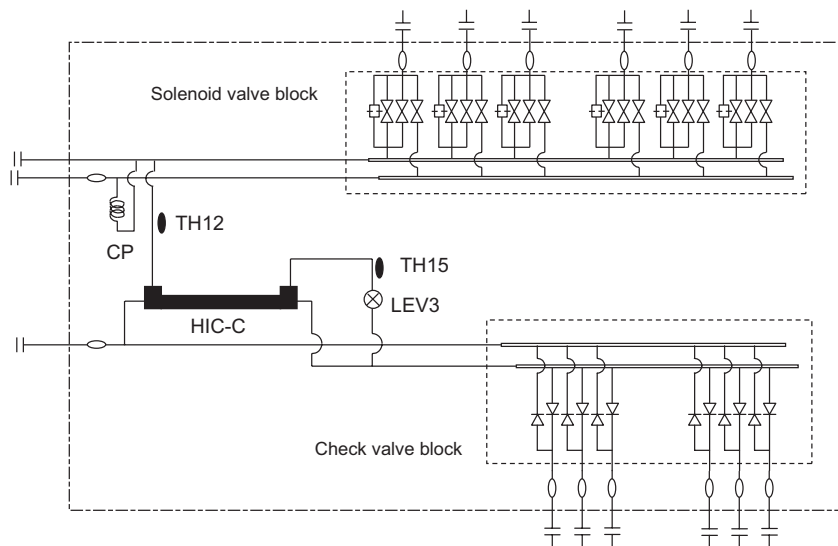


CMB-P1016NU-HA (main)

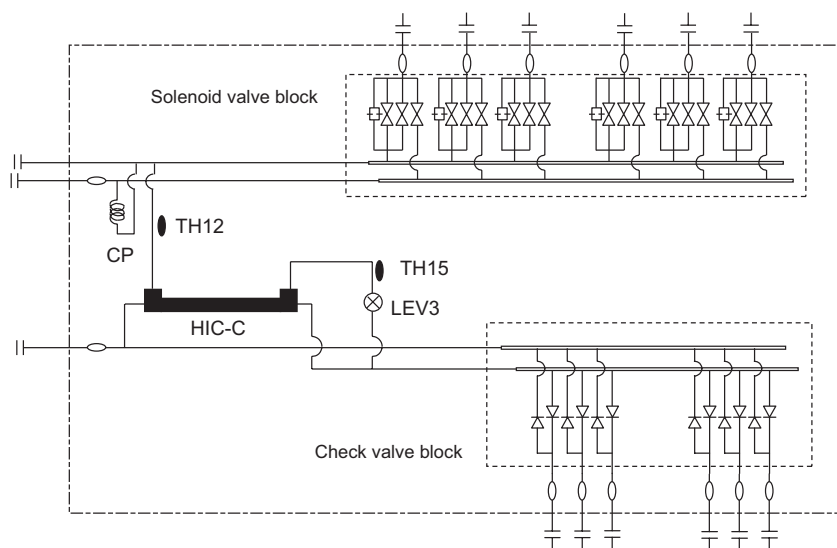


4. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

CMB-P104, P108NU-GB (Sub)

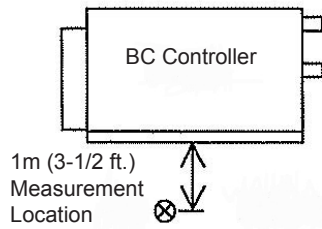


CMB-P1016NU-HB (Sub)



5. SOUND PRESSURE LEVELS

5-1. BC Controller Steady State Sound

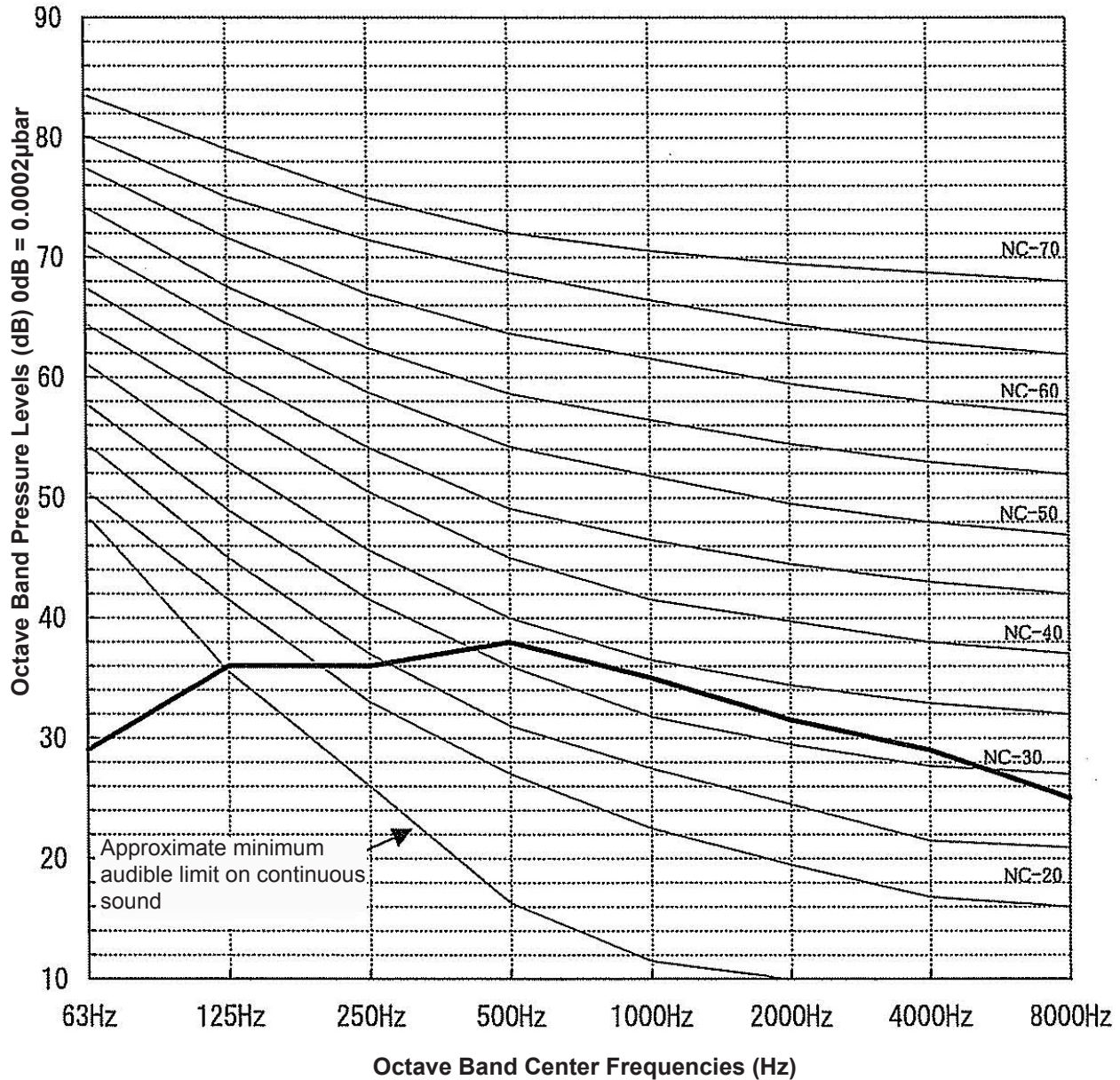


Measured when refrigerant is
flowing in normal cooling or
heating operation

CMB-P105~P1016NU-G
CMB-P108~P1013NU-GA
CMB-P1016NU-HA
CMB-P104, P108NU-GB
CMB-P1016NU-HB

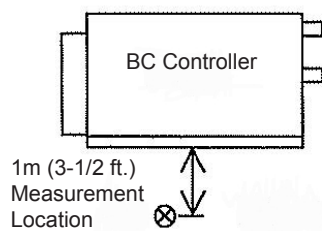
63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Weighted Average (dB)
29	36	36	38	35	31.5	29	25	40

Measured in an anechoic chamber



5. SOUND PRESSURE LEVELS

5-2. BC Controller Peak Sound

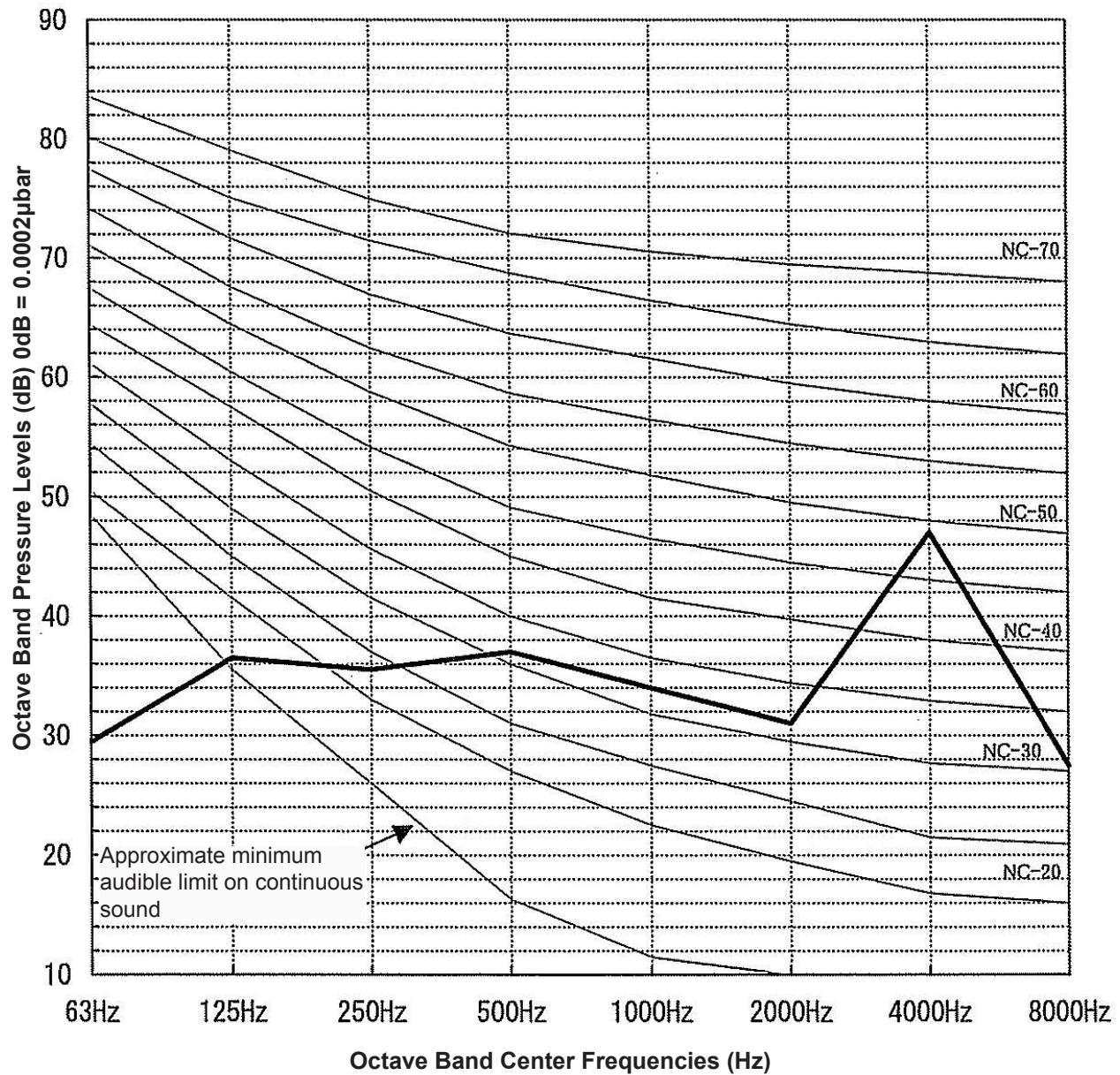


Measured when the solenoid
control valve operates

CMB-P105~P1016NU-G
CMB-P108~P1013NU-GA
CMB-P1016NU-HA
CMB-P104, P108NU-GB
CMB-P1016NU-HB

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Weighted Average (dB)
29.5	36.5	35.5	37	34	31	47	27.5	49

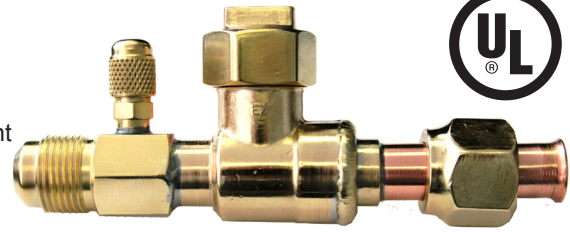
Measured in an anechoic chamber



6. OPTIONAL PARTS

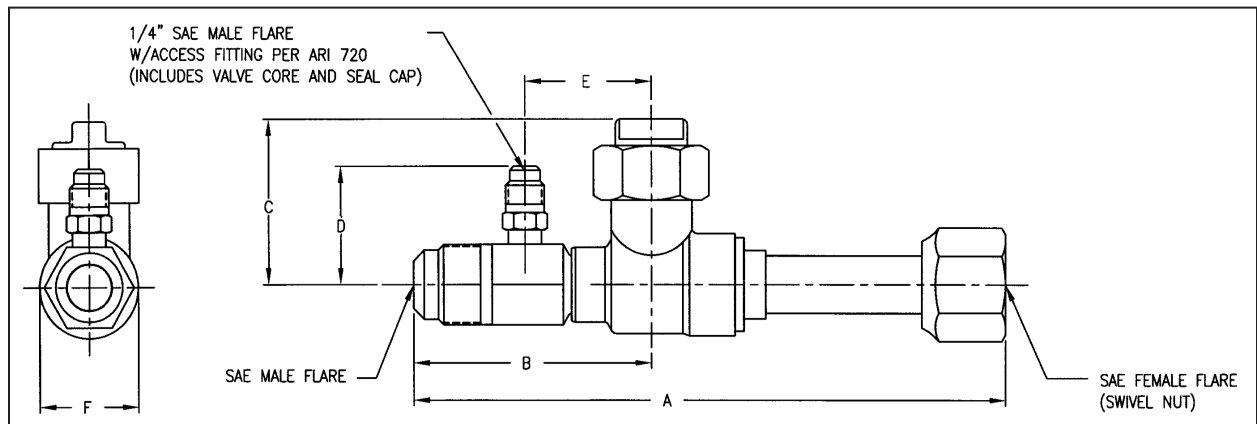
6-1. BV-Series Ball Valves

- Fully factory assembled
- Furnace brazed and pressure tested
- Each ball valve is equipped with Schrader Valve for refrigerant service
- Design working pressure: 700 PSIG
- Temperature range: -40°F to +325°F (-40°C to +149°C)
- Forged brass body and seal cap
- Teflon® seals and gaskets (no synthetic O-rings)
- Seal cap design permits valve operation without removing seal cap
- Suitable for use with R-11, R-22, R-123, R-125, R-134A, R-236FA, R-4202A, R-402B, R-404A, R-407C, R-410A, R-500, R-502, and R-507
- One year limited materials and workmanship warranty on Ball Valves



Model Number	SAE Flare	A	B	C	D	E	F
BV38FFSI	3/8"	6.30	2.67	1.80	1.22	1.42	1.10
BV58FFSI	5/8"	6.64	2.67	1.80	1.28	1.42	1.10

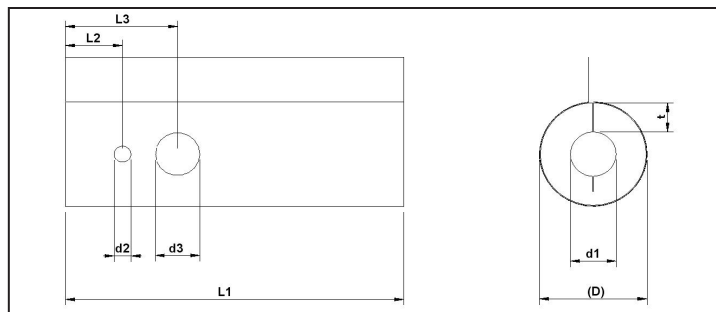
*Insulation piece is included with the ball valves.



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)



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)

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

Ball Valve Accessories	
Model Number	Female Flare X Solder Adaptor
BVUS5-44	1/4"
BVUS5-66	3/8"
BVUS5-88	1/2"
BVUS5-1010	5/8"

