



Changes for the Better

AIR CONDITIONING SYSTEMS



for a greener tomorrow The ECO Changes logo consists of the word "ECO" in a green circle above the word "Changes" in a smaller green font, with a small green leaf icon integrated into the design.

DATA BOOK

MODEL

CMB-WM-V-AA
CMB-WM-V-AB

CMB-WM-V-AA, CMB-WM-V-AB (for YNW/YLM-Series)

1. SPECIFICATIONS	2
2. EXTERNAL DIMENSIONS	6
3. CENTER OF GRAVITY	10
4. ELECTRICAL WIRING DIAGRAMS	11
5. SOUND LEVELS	15
5-1. Sound levels	15
5-2. NC curves	15
6. ELECTRICAL CHARACTERISTICS	16

1. SPECIFICATIONS

Indoor units

Model name			CMB-WM108V-AA									
Number of branch			8									
Power source			1-phase 220-230-240 V									
			50 Hz		60 Hz							
Power input (220/230/240)	Cooling	kW	0.45/0.46/0.47		0.45/0.46/0.47							
	Heating	kW	0.45/0.46/0.47		0.45/0.46/0.47							
Current input (220/230/240)	Cooling	A	2.89/2.83/2.79		2.89/2.83/2.79							
	Heating	A	2.89/2.83/2.79		2.89/2.83/2.79							
Sound pressure level (measured in anechoice room)		dB <A>	41									
Applicable temperature range of installation site		°C (D.B.)	0~32									
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)									
Connectable outdoor/heat source unit			PURY-P200~500YNW-A(-BS)/PURY-EP200~500YNW-A(-BS) PURY-M200~300YNW-A(-BS)/PURY-EM200~300YNW-A(-BS) PURY-P200~500YLM-A(1)(-BS)/PURY-EP200~500YLM-A1(-BS)/PURY-P200~500YLM-A2/A1									
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)									
External dimension H x W x D		mm	300 x 1,520 x 630									
		in.	11-13/16 x 59-7/8 x 24-13/16									
Refrigerant piping diameter	To outdoor/heat source unit		Connectable outdoor/heat source unit capacity									
			To P200 To M300	To P250/300	To P350	To P400 for each	To P450/500 for each					
	High press. Pipe	mm (in.) O.D.	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed					
	Low press. Pipe	mm (in.) O.D.	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed					
Water piping diameter	To Indoor unit											
	Inlet Pipe	mm (in.) I.D.	20 (3/4)									
	Outlet Pipe	mm (in.) I.D.	20 (3/4)									
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)									
Net weight		kg (lbs)	86 (190) [96 (212) with water]									
Standard attachment	Document	-										
	Accessory	Drain Connection pipe (with flexible hose and insulation)										
Optional parts			-									
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/R32 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 HBC CONTROLLER at least 5 m away from any indoor units.) 4. Please install the HBC controller in a place where noise will not be an issue. 5. Please attach an expansion vessel (field supply). 6. Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life. 7. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat. 8. Please install an air purge valve where air will gather in the water circuit. 9. Please install a pressure reducing valve and a strainer on the water supply to the HBC controller. 10. Please refer to the databook or the installation manual for the specified water quality. 11. This unit is not designed for outside installations. 12. Please always make water circulate or pull out the circulation water completely when not using it. *Please do not use it as a drinking water. 13. Please do not use ground water and well water. 14. When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual). 15. R32 is flammable, and certain restrictions apply to the installation of units. When installing new units, moving the existing units, or changing the layout of the room, ensure that installation restrictions are observed. For detail, refer to the section in the Databook on installation restrictions.											

1. SPECIFICATIONS

Indoor units

Model name			CMB-WM1016V-AA								
Number of branch			16								
Power source			1-phase 220-230-240 V								
			50 Hz		60 Hz						
Power input (220/230/240)	Cooling	kW	0.45/0.46/0.47		0.45/0.46/0.47						
	Heating	kW	0.45/0.46/0.47		0.45/0.46/0.47						
Current input (220/230/240)	Cooling	A	2.89/2.83/2.79		2.89/2.83/2.79						
	Heating	A	2.89/2.83/2.79		2.89/2.83/2.79						
Sound pressure level (measured in anechoice room)			dB <A>								
Applicable temperature range of installation site			°C (D.B.)								
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)								
Connectable outdoor/heat source unit			PURY-P200~500YNW-A(-BS)/PURY-EP200~500YNW-A(-BS) PURY-M200~300YNW-A(-BS)/PURY-EM200~300YNW-A(-BS) PURY-P200~500YLM-A1(-BS)/PURY-EP200~500YLM-A1(-BS)/PURY-P200~500YLM-A2/A1								
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)								
External dimension H x W x D			mm								
			in.								
Refrigerant piping diameter	To outdoor/heat source unit			Connectable outdoor/heat source unit capacity							
	To P200 To M300	To P250/300	To P350	To P400 for each	To P450/500 for each						
	High press. Pipe	mm (in.) O.D.	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed				
	Low press. Pipe	mm (in.) O.D.	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed				
Water piping diameter	To Indoor unit										
	Inlet Pipe	mm (in.) I.D.	20 (3/4)								
	Outlet Pipe	mm (in.) I.D.	20 (3/4)								
Field drain pipe size			mm (in.)	O.D. 32 (1-1/4)							
Net weight			kg (lbs)	98 (217) [111 (245) with water]							
Standard attachment	Document		-								
	Accessory		Drain Connection pipe (with flexible hose and insulation)								
Optional parts			-								
Note	<p>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 specification.</p> <p>2. The equipment is for R410A/R32 refrigerant.</p> <p>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 HBC CONTROLLER at least 5 m away from any indoor units.)</p> <p>4. Please install the HBC controller in a place where noise will not be an issue.</p> <p>5. Please attach an expansion vessel (field supply).</p> <p>6. Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.</p> <p>7. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.</p> <p>8. Please install an air purge valve where air will gather in the water circuit.</p> <p>9. Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.</p> <p>10. Please refer to the databook or the installation manual for the specified water quality.</p> <p>11. This unit is not designed for outside installations.</p> <p>12. Please always make water circulate or pull out the circulation water completely when not using it. *Please do not use it as a drinking water.</p> <p>13. Please do not use ground water and well water.</p> <p>14. When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual).</p> <p>15. R32 is flammable, and certain restrictions apply to the installation of units. When installing new units, moving the existing units, or changing the layout of the room, ensure that installation restrictions are observed. For detail, refer to the section in the Databook on installation restrictions.</p>										

1. SPECIFICATIONS

Indoor units

Model name			CMB-WM108V-AB							
Number of branch			8							
Power source			1-phase 220-230-240 V							
			50 Hz		60 Hz					
Power input (220/230/240)	Cooling	kW	0.01/0.01/0.01		0.01/0.01/0.01					
	Heating	kW	0.01/0.01/0.01		0.01/0.01/0.01					
Current input (220/230/240)	Cooling	A	0.05/0.05/0.05		0.05/0.05/0.05					
	Heating	A	0.05/0.05/0.05		0.05/0.05/0.05					
Sound pressure level (measured in anechoice room)		dB <A>	-							
Applicable temperature range of installation site		°C (D.B.)	0~32							
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)							
Connectable outdoor/heat source unit			-							
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)							
External dimension H x W x D		mm	300 x 1,520 x 630							
		in.	11-13/16 x 59-7/8 x 24-13/16							
Refrigerant piping diameter	To outdoor/heat source unit		Connectable outdoor/heat source unit capacity							
			-	-	-	-	-			
	High press. Pipe	mm (in.) O.D.	-	-	-	-	-			
Water piping diameter	Low press. Pipe	mm (in.) O.D.	-	-	-	-	-			
	To Indoor unit		-							
			Inlet Pipe	mm (in.) I.D.	20 (3/4)					
			Outlet Pipe	mm (in.) I.D.	20 (3/4)					
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)							
Net weight		kg (lbs)	44 (98) [49 (109) with water]							
Standard attachment	Document		-							
	Accessory		Drain Connection pipe (with flexible hose and insulation)							
Optional parts			-							
Note	<p>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.</p> <p>2.The equipment is for water.</p> <p>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 Sub HBC CONTROLLER at least 5 m away from any indoor units.)</p> <p>4.Please install the Sub HBC controller in a place where noise will not be an issue.</p> <p>5.Please attach an expansion vessel (field supply).</p> <p>6.Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.</p> <p>7.When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.</p> <p>8.Please install an air purge valve where air will gather in the water circuit.</p> <p>9.Please refer to the databook or the installation manual for the specified water quality.</p> <p>10.This unit is not designed for outside installations.</p> <p>11.Please always make water circulate or pull out the circulation water completely when not using it. *Please do not use it as a drinking water.</p> <p>12.Please do not use ground water and well water.</p> <p>13.When installing the Sub HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual).</p> <p>14.Can't use singleness. (MAIN HBC CONTROLLER is necessary)</p>									

1. SPECIFICATIONS

Indoor units

Model name			CMB-WM1016V-AB							
Number of branch			16							
Power source			1-phase 220-230-240 V							
			50 Hz		60 Hz					
Power input (220/230/240)	Cooling	kW	0.01/0.01/0.01		0.01/0.01/0.01					
	Heating	kW	0.01/0.01/0.01		0.01/0.01/0.01					
Current input (220/230/240)	Cooling	A	0.05/0.05/0.05		0.05/0.05/0.05					
	Heating	A	0.05/0.05/0.05		0.05/0.05/0.05					
Sound pressure level (measured in anechoice room)	dB <A>		-							
Applicable temperature range of installation site	°C (D.B.)		0~32							
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)							
Connectable outdoor/heat source unit			-							
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81)							
External dimension H x W x D		mm	300 x 1,520 x 630							
			11-13/16 x 59-7/8 x 24-13/16							
Refrigerant piping diameter	To outdoor/heat source unit		Connectable outdoor/heat source unit capacity							
			-	-	-	-	-			
	High press. Pipe	mm (in.) O.D.	-	-	-	-	-			
Water piping diameter	Low press. Pipe	mm (in.) O.D.	-	-	-	-	-			
	To Indoor unit									
	Inlet Pipe	mm (in.) I.D.	20 (3/4)							
Field drain pipe size	Outlet Pipe	mm (in.) I.D.	20 (3/4)							
	mm (in.)		O.D. 32 (1-1/4)							
	kg (lbs)		53 (117) [62 (137) with water]							
Standard attachment	Document		-							
	Accessory		Drain Connection pipe (with flexible hose and insulation)							
Optional parts			-							
Note	<p>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.</p> <p>2. The equipment is for water.</p> <p>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 Sub HBC CONTROLLER at least 5 m away from any indoor units.)</p> <p>4. Please install the Sub HBC controller in a place where noise will not be an issue.</p> <p>5. Please attach an expansion vessel (field supply).</p> <p>6. Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework. Furthermore, when using copper pipework use a non-oxidative brazing method. Oxidation of the pipework will reduce the pump life.</p> <p>7. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.</p> <p>8. Please install an air purge valve where air will gather in the water circuit.</p> <p>9. Please refer to the databook or the installation manual for the specified water quality.</p> <p>10. This unit is not designed for outside installations.</p> <p>11. Please always make water circulate or pull out the circulation water completely when not using it. *Please do not use it as a drinking water.</p> <p>12. Please do not use ground water and well water.</p> <p>13. When installing the Sub HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual).</p> <p>14. Can't use singleness. (MAIN HBC CONTROLLER is necessary)</p>									

HBC controller

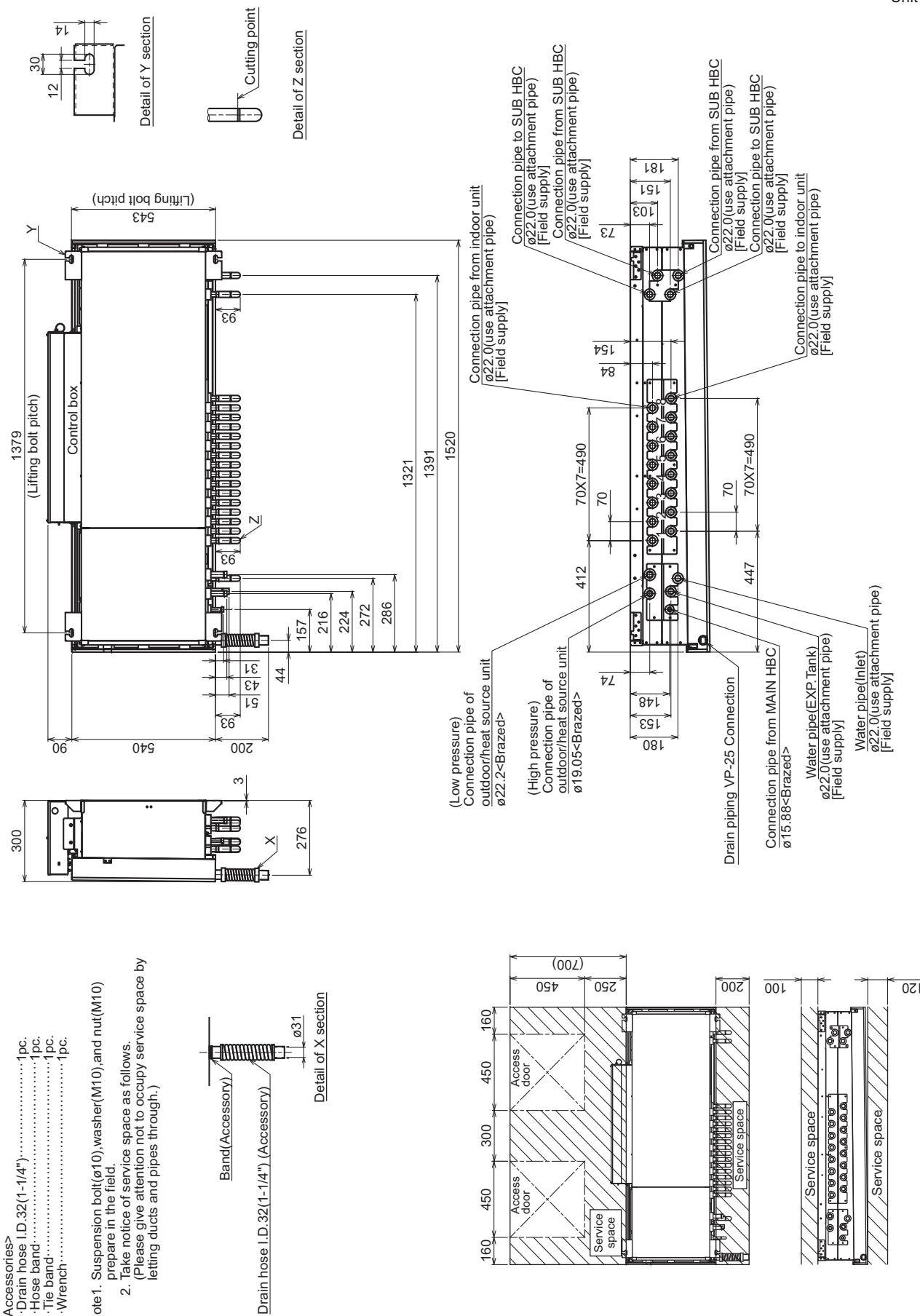
2. EXTERNAL DIMENSIONS

Indoor units

CMB-WM108V-AA

Unit : mm

HBC controller



<Accessories>
 · Drain hose I.D.32(1-1/4") 1pc.
 · Hose band 1pc.
 · Tie band 1pc.
 · Wrench 1pc.

Note 1. Suspension bolt(ø10), washer(M10), and nut(M10) prepare in the field.

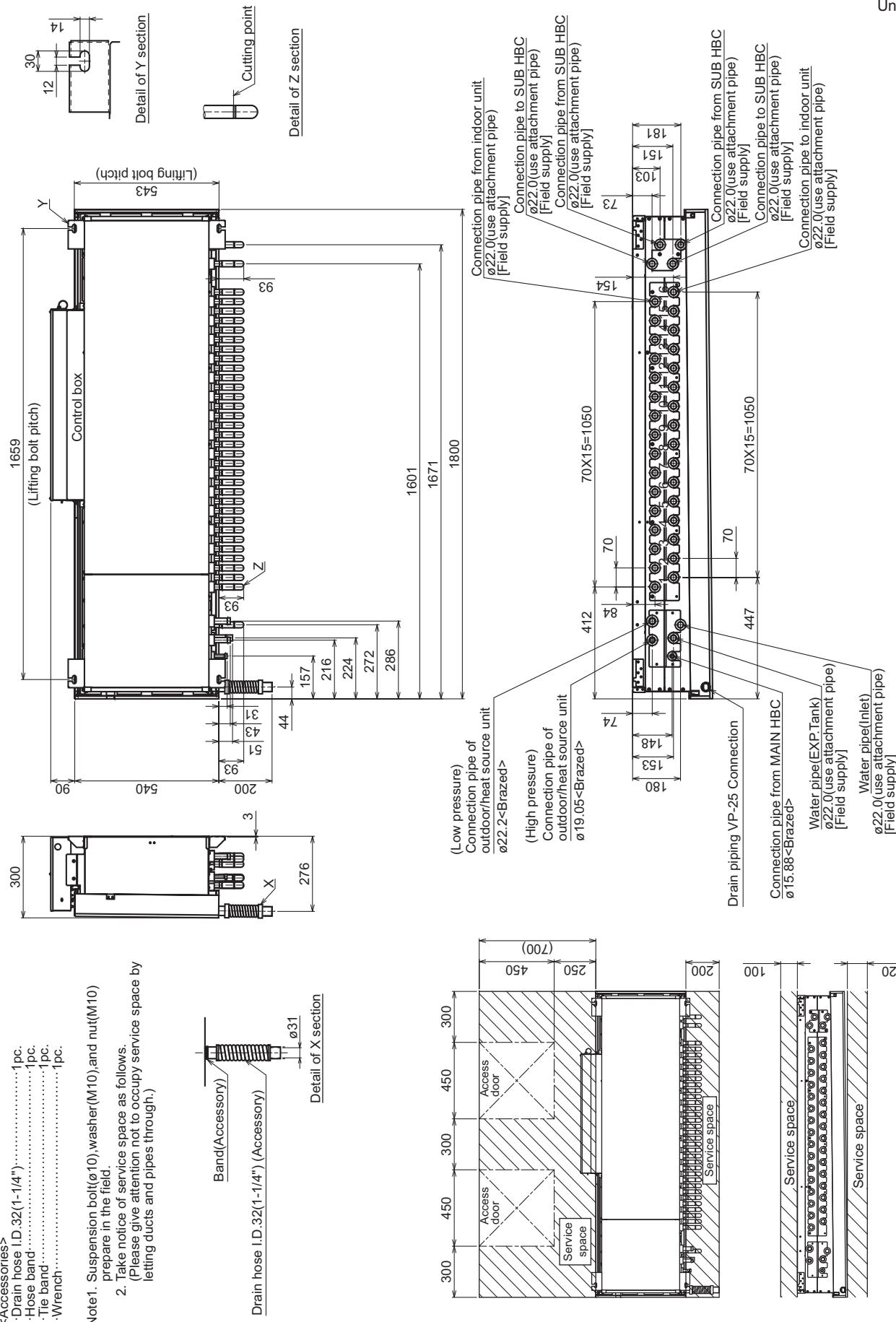
2. Take notice of service space as follows.

(Please give attention not to occupy service space by letting ducts and pipes through.)

2. EXTERNAL DIMENSIONS

Indoor units

CMB-WM1016V-AA



<Accessories>

·Drain hose	ID.32(1-1/4")	.....	1pc.
·Hose band	.....	.....	1pc.
·Tie band	.....	.....	1pc.
·Wrench	.....	.....	1pc.

Note1. Suspension bolt@10), 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.)

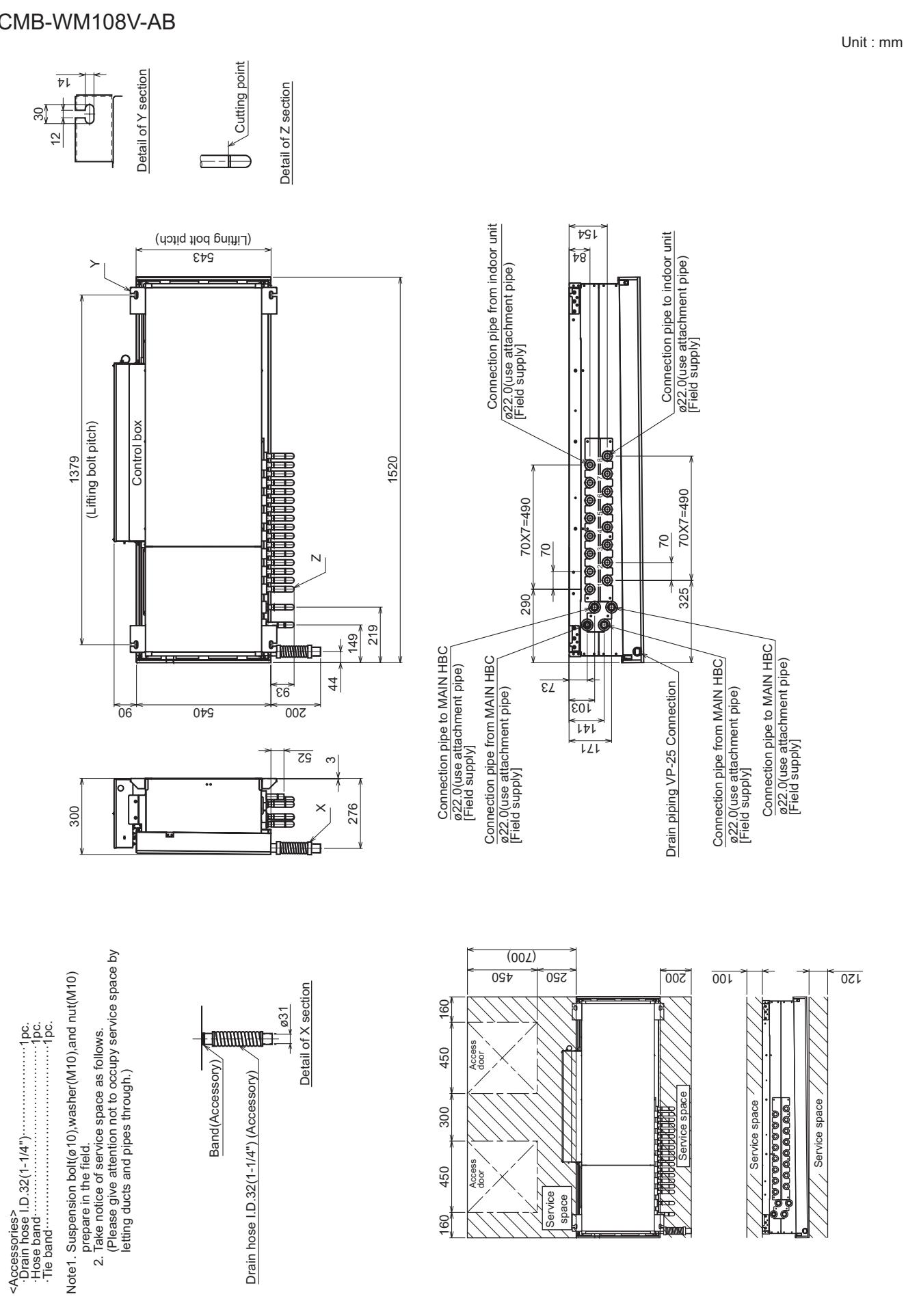
2. EXTERNAL DIMENSIONS

Indoor units

CMB-WM108V-AB

Unit : mm

HBC controller

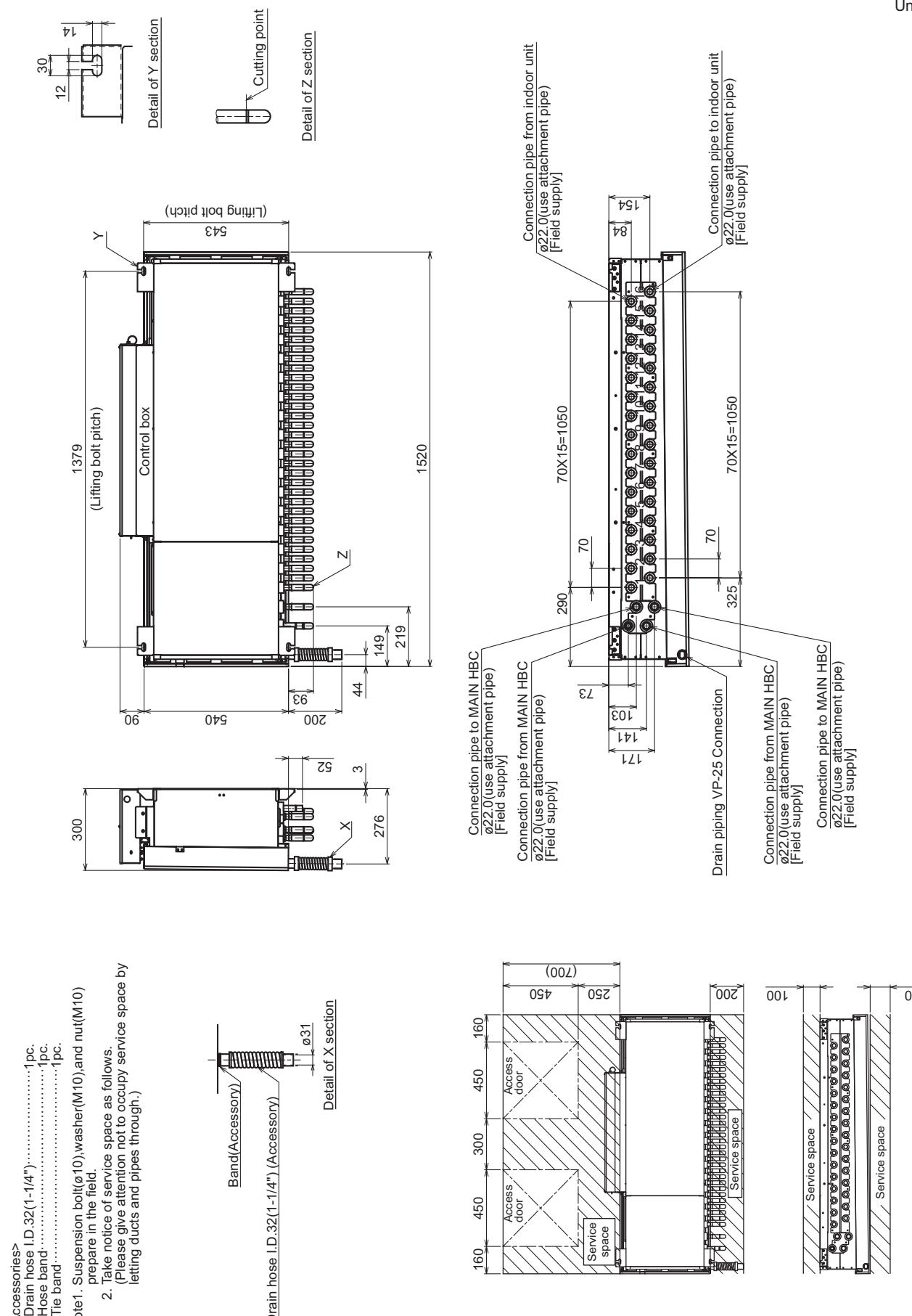


2. EXTERNAL DIMENSIONS

Indoor units

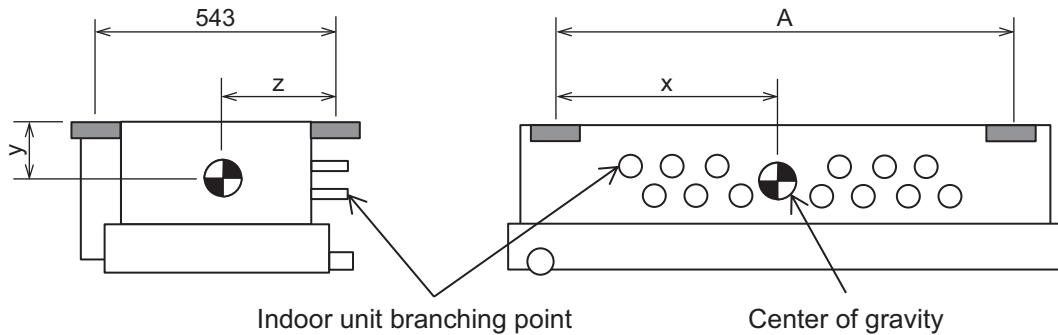
CMB-WM1016V-AB

Unit : mm



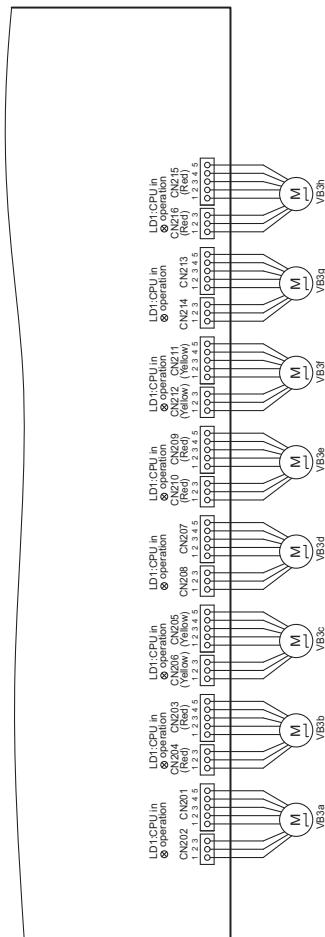
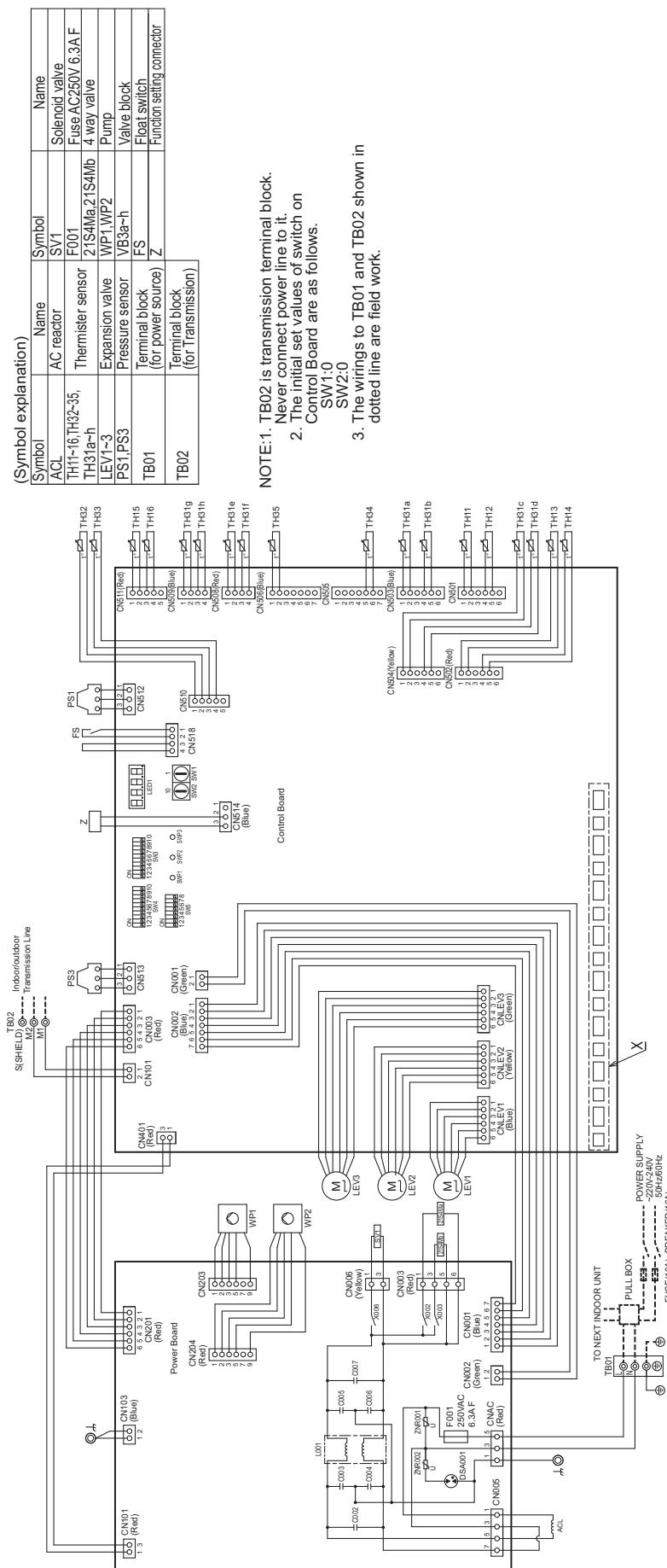
HBC controller

CMB-WM108, 1016V-AA
CMB-WM108, 1016V-AB



	CMB-WM108V-AA	CMB-WM1016V-AA	CMB-WM108V-AB	CMB-WM1016V-AB
A (mm)	1379	1659	1379	1379
x (mm)	680	825	610	680
y (mm)	145	145	145	145
z (mm)	285	285	270	270

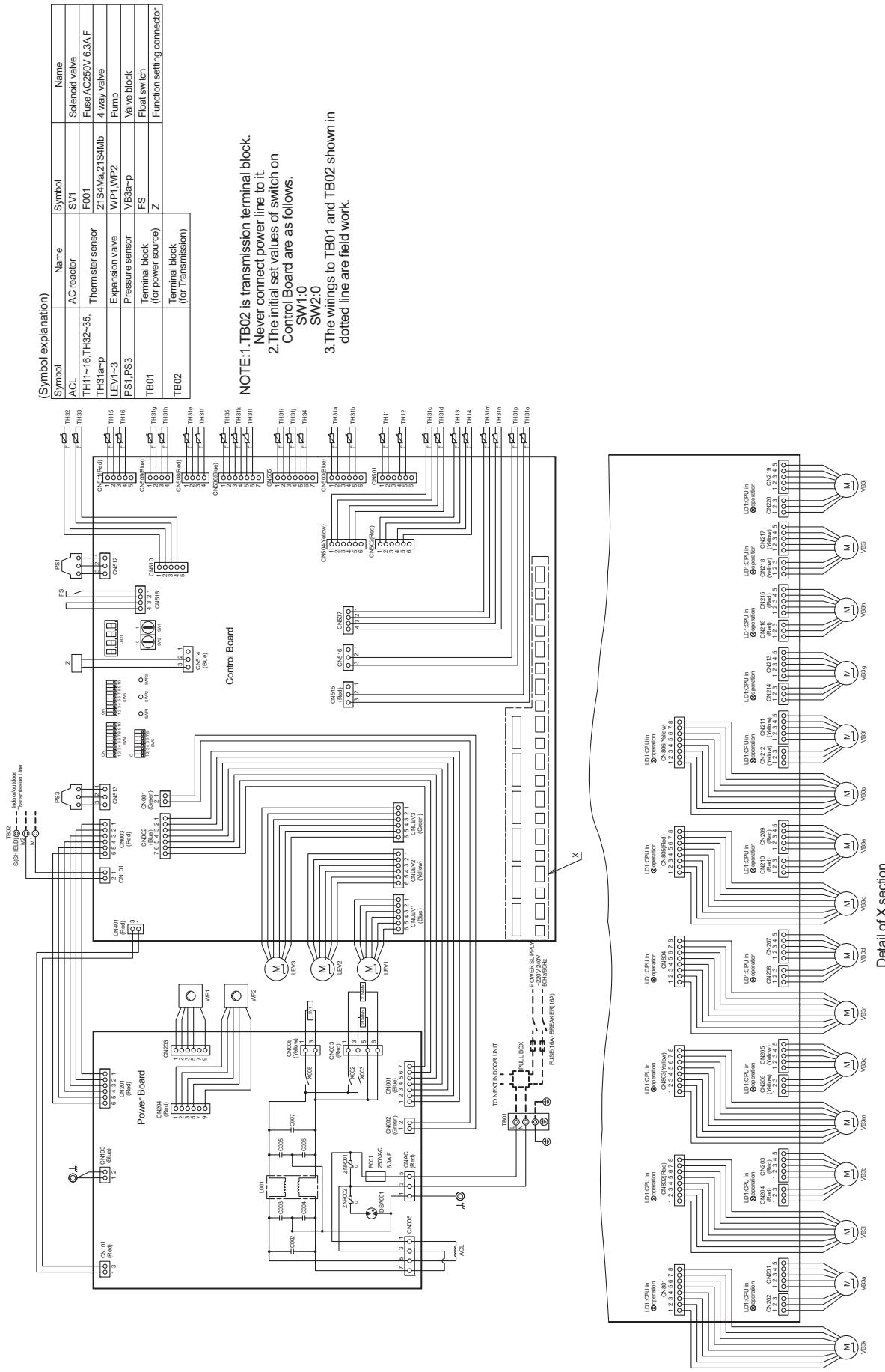
CMB-WM108V-AA



4. ELECTRICAL WIRING DIAGRAMS

Indoor units

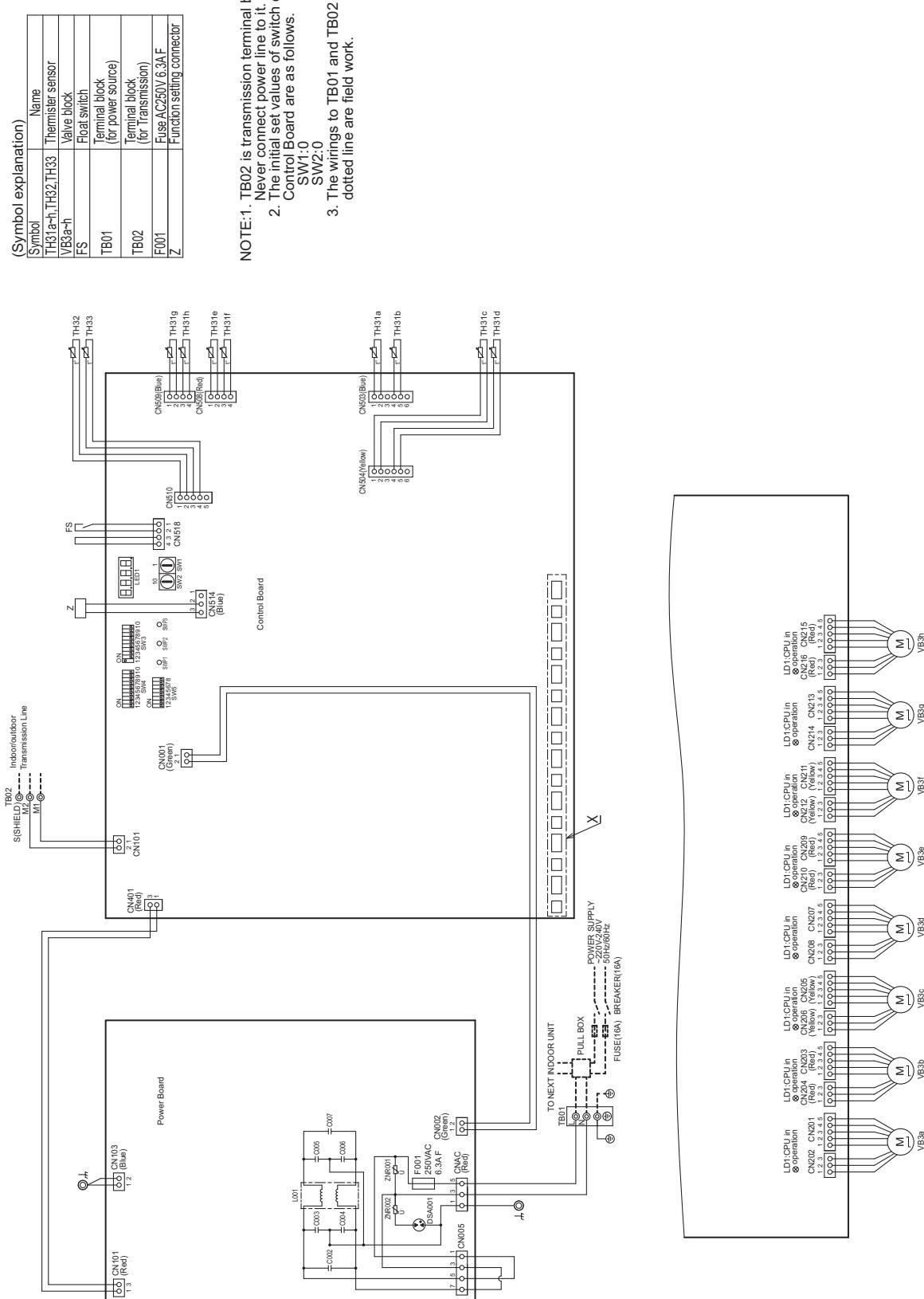
CMB-WM1016V-AA



4. ELECTRICAL WIRING DIAGRAMS

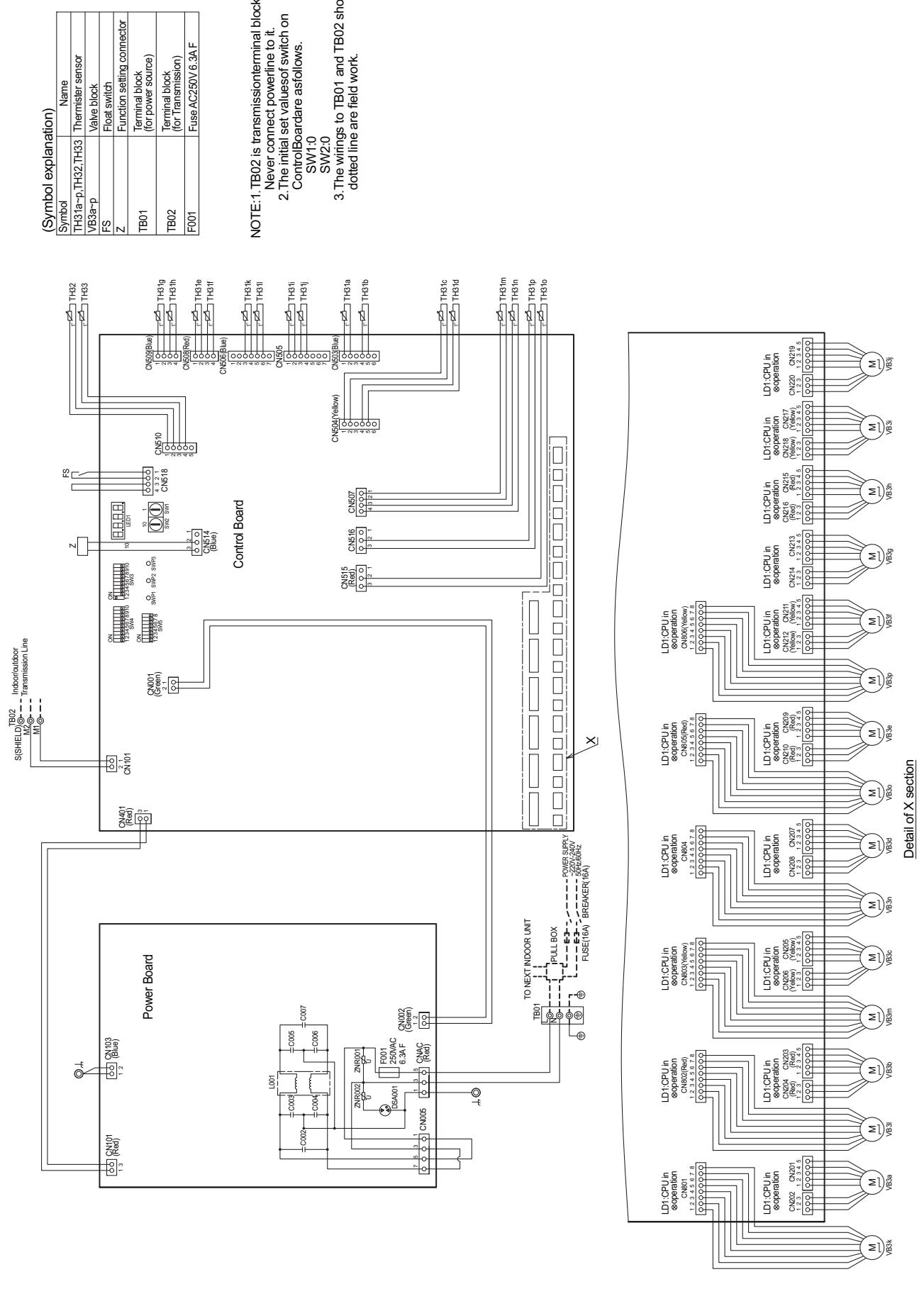
Indoor units

CMB-WM108V-AB



CMB-WM1016V-AB

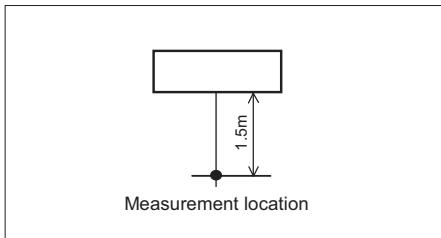
HBC controller



5-1. Sound levels

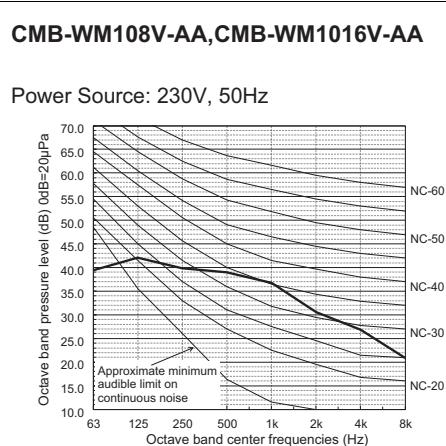
(Measured point)

CMB-WM108V-AA
CMB-WM1016V-AA



* Measured in anechoic room.

5-2. NC curves



6. ELECTRICAL CHARACTERISTICS

Indoor units

Symbols: MCA: Max. Circuit Amps, MFA: Max. Fuse Amps, RLA: Rated Load Amps

HBC controller	Power supply					RLA(A)
	Hz	Volts	Range+/-10%	MCA(A)	MFA(A)	
CMB-WM108V-AA CMB-WM1016V-AA	50/60	220	Max.: 264V Min.: 198V	3.49	15	2.89
		230				2.83
		240				2.79
CMB-WM108V-AB CMB-WM1016V-AB	50/60	220	Max.: 264V Min.: 198V	0.06	15	0.05
		230				0.05
		240				0.05



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A/R32.

MITSUBISHI ELECTRIC CORPORATION

www.MitsubishiElectric.com