

Changes for the Better

AIR CONDITIONING SYSTEMS



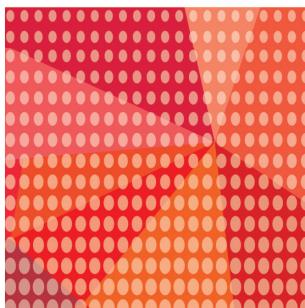
DATA BOOK

MODEL

CMB-WM-V-AA

CMB-WM-F-AA

CMB-WM-V-BB



CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB

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1. SPECIFICATIONS

HBC controller

Model			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 anechoic room) *21			dB <A>										
Applicable temperature range of installation site *22			°C (D.B.)										
External finish			Galvanized steel plate (Drain pan: Pre-coated galvanized sheets + powder coating)										
Connectable outdoor/heat source unit model			PURY- (E)P200~500YNW-A/A1/A2 (-BS) PURY- (E)M200~500YNW-A/A1 (-BS) PURY- (E)P200~500YLM-A1 (-BS), PQRY-P200~500YLM-A1/A2										
Indoor unit capacity connectable to 1 branch			Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL81.)										
External dimension H × W × D			mm	300 x 1,520 x 630									
			in.	11-13/16 x 59-7/8 x 24-13/16									
Refrigerant *23 piping diameter	To outdoor/heat source unit			Connectable outdoor/heat source unit capacity									
	P200/P400/M200/ M400	P450/M250/M300/ M450/M500	M350	P250/P300/P500	P350								
	High press. Pipe		mm (in.) O.D.	15.88 (5/8) Brazed	15.88 (5/8) 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	22.2 (7/8) Brazed						
To Main-HBC controller			mm (in.) O.D.	15.88 (5/8) Brazed									
Water piping diameter													
Connection size	To Sub-HBC controller	Inlet/Outlet	mm O.D.	22									
	To Indoor unit	Inlet/Outlet	mm O.D.	22									
Field pipe size	To Sub-HBC controller	Total down-steam indoor unit capacity	W/WP/WL 10-100	W/WP/WL 101-200	W/WP/WL 201-300	W/WP/WL 301-400	W/WP/WL 401-500						
		Inlet/Outlet mm I.D. (Min)	20.0	25.8	30.0	33.3	36.2						
	To Indoor unit	Total down-steam indoor unit capacity	W/WP/WL10-50			W/WP/WL51-125							
		Inlet/Outlet mm I.D. (Min)	20			30							
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	-											
	Accessories	Drain Connection pipe (with flexible hose and insulation), Tie band, Hose band											
Optional parts													

Notes:

1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. This unit is for R410A or R32 refrigerant.
3. Install this unit 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 pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work 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 DATA BOOK 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. The unit cannot be used when the outdoor temperature is outside the guaranteed operation range.
If the unit is used in such condition, the unit may not go into the Thermo-ON mode.
Guaranteed operation range: -5 to 52°C in cooling mode, -20 to 15.5°C in heating mode.
15. This product is not designed for preservation of food, animals, plants, precision equipment, or art objects.
To prevent quality loss, do not use the product for purposes other than what it is designed for.
16. The ambient relative humidity of the HBC controller needs to be kept below 80%.
17. Sound pressure level differs depending on the connected outdoor/heat source unit capacity or operation condition.
18. The sound pressure level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
19. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method.
Please refer to the Installation Manual for more information.
20. 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 DATA BOOK on installation restrictions.
21. The sound pressure level measured by the conventional method in JIS for reference purpose.
22. When installing the HBC controller in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK and the Installation Manual).
23. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

1. SPECIFICATIONS

HBC controller

HBC controller

Model			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 anechoic room) *21			dB <A>										
Applicable temperature range of installation site *22			°C (D.B.)										
External finish			Galvanized steel plate (Drain pan: Pre-coated galvanized sheets + powder coating)										
Connectable outdoor/heat source unit model			PURY- (E)P200~500YNW-A/A1/A2 (-BS) PURY- (E)M200~500YNW-A/A1 (-BS) PURY- (E)P200~500YLM-A1 (-BS), PQRY-P200~500YLM-A1/A2										
Indoor unit capacity connectable to 1 branch			Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL81.)										
External dimension H × W × D		mm	300 x 1,800 x 630										
		in.	11-13/16 x 70-7/8 x 24-13/16										
Refrigerant *23 piping diameter	To outdoor/heat source unit		Connectable outdoor/heat source unit capacity										
			P200/P400/M200/ M400	P450/M250/M300/ M450/M500	M350	P250/P300/P500	P350						
	High press. Pipe	mm (in.) O.D.	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) 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	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed						
To Main-HBC controller			15.88 (5/8) Brazed										
Water piping diameter													
Connection size	To Sub-HBC controller	Inlet/Outlet	mm O.D.	22									
	To Indoor unit	Inlet/Outlet	mm O.D.	22									
Field pipe size	To Sub-HBC controller	Total down-steam indoor unit capacity	W/WP/WL 10-100	W/WP/WL 101-200	W/WP/WL 201-300	W/WP/WL 301-400	W/WP/WL 401-500						
		Inlet/Outlet mm I.D. (Min)	20.0	25.8	30.0	33.3	36.2						
	To Indoor unit	Total down-steam indoor unit capacity	W/WP/WL10-50			W/WP/WL51-125							
		Inlet/Outlet mm I.D. (Min)	20			30							
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	-											
	Accessories	Drain Connection pipe (with flexible hose and insulation), Tie band, Hose band											
Optional parts			-										

Notes:

- Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
- This unit is for R410A or R32 refrigerant.
- Install this unit 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.)
- Please install the HBC controller in a place where noise will not be an issue.
- Please attach an expansion vessel (field supply).
- Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework.
Furthermore, when using copper pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work will reduce the pump life.
- 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.
- Please install an air purge valve where air will gather in the water circuit.
- Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.
- Please refer to the DATA BOOK or the Installation Manual for the specified water quality.
- This unit is not designed for outside installations.
- 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.
- Please do not use ground water and well water.
- The unit cannot be used when the outdoor temperature is outside the guaranteed operation range.
If the unit is used in such condition, the unit may not go into the Thermo-ON mode.
Guaranteed operation range: -5 to 52°C in cooling mode, -20 to 15.5°C in heating mode.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects.
To prevent quality loss, do not use the product for purposes other than what it is designed for.
- The ambient relative humidity of the HBC controller needs to be kept below 80%.
- Sound pressure level differs depending on the connected outdoor/heat source unit capacity or operation condition.
- The sound pressure level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
- Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method.
Please refer to the Installation Manual for more information.
- 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 DATA BOOK on installation restrictions.
- The sound pressure level measured by the conventional method in JIS for reference purpose.
- When installing the HBC controller in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK and the Installation Manual).
- For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

1. SPECIFICATIONS

HBC controller

				CMB-WM350F-AA					
Number of branch				6					
Power source				1-phase 220-230-240 V					
				50 Hz	60 Hz				
Power input (220-230-240)	Cooling	kW	1.50-1.50-1.50	1.50-1.50-1.50	1.50-1.50-1.50				
	Heating	kW	1.50-1.50-1.50	1.50-1.50-1.50	1.50-1.50-1.50				
Current input (220-230-240)	Cooling	A	6.82-6.52-6.25	6.82-6.52-6.25	6.82-6.52-6.25				
	Heating	A	6.82-6.52-6.25	6.82-6.52-6.25	6.82-6.52-6.25				
Sound pressure level (measured in anechoic room)				54					
Applicable temperature range of installation site				0~40					
External finish				Galvanized steel plate					
Connectable outdoor/heat source unit capacity				PURY-M200~350YNW-A1 (-BS)/PURY-EM200~350YNW-A1 (-BS)					
Indoor unit capacity connectable to 1 branch				Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL80.)					
External dimension H x W x D		mm	1,500 x 800 x 500						
		in.	59-1/16 x 31-1/2 x 19-11/16						
Refrigerant piping diameter	To outdoor/heat source unit		Connectable outdoor/heat source unit capacity						
			M200	M250/M300	M350				
	High press. Pipe		15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed				
Low press. Pipe		mm (in.) O.D.	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed				
Water piping diameter									
Connection size	To Sub-HBC	Inlet/Outlet	mm O.D.	42					
	To Indoor unit	Inlet/Outlet	mm O.D.	22					
	Field pipe size		mm I.D. (Min)	Total down-stream Indoor unit capacity	Piping length from Main-HBC to farthest Indoor unit				
				W/WP/WL10	Max 20m	Max 40m			
				W/WP/WL11-15	12	12			
				W/WP/WL16-25	12	15.5			
				W/WP/WL26-32	15.5	15.5			
				W/WP/WL33-50	15.5	19.9			
				W/WP/WL51-63	19.9	19.9			
				W/WP/WL64-80	19.9	25.2			
				W/WP/WL81-100	25.2	25.2			
				W/WP/WL101-150	25.2	32.6			
				W/WP/WL151-250	32.6	32.6			
				W/WP/WL251-300	32.6	39.6			
				W/WP/WL301-750	50.8	50.8			
Field drain pipe size				O.D. 26.7 (1-1/16)					
Net weight				196 (433) [216 (477) with water]					
Standard attachment	Document		-						
	Accessories		-						
Optional parts				-					

Notes:

1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. This unit is for R32 refrigerant.
3. Install this unit 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 at least 5 m away from any indoor units.)
4. Please install the HBC 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 pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work 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.
10. Please refer to the DATA BOOK 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 in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK 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 DATA BOOK on installation restrictions.

1. SPECIFICATIONS

HBC controller

HBC controller

Model			CMB-WM500F-AA					
Number of branch			6					
Power source			1-phase 220-230-240 V					
			50 Hz	60 Hz				
Power input (220-230-240)	Cooling	kW	1.50-1.50-1.50	1.50-1.50-1.50				
	Heating	kW	1.50-1.50-1.50	1.50-1.50-1.50				
Current input (220-230-240)	Cooling	A	6.82-6.52-6.25	6.82-6.52-6.25				
	Heating	A	6.82-6.52-6.25	6.82-6.52-6.25				
Sound pressure level (measured in anechoic room)			dB <A>	54				
Applicable temperature range of installation site			°C (D.B.)	0-40				
External finish			Galvanized steel plate					
Connectable outdoor/heat source unit capacity			PURY-M400~500YNW-A1 (-BS)/PURY-EM400~500YNW-A1 (-BS)					
Indoor unit capacity connectable to 1 branch			Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL80.)					
External dimension H x W x D			mm	1,500 x 800 x 500				
			in.	59-1/16 x 31-1/2 x 19-11/16				
Refrigerant piping diameter	To outdoor/heat source unit			Connectable outdoor/heat source unit capacity				
				M400/M450/M500				
	High press. Pipe	mm (in.) O.D.	19.05 (3/4) Brazed					
	Low press. Pipe	mm (in.) O.D.	28.58 (1-1/8) Brazed					
Water piping diameter								
Field pipe size	To Sub-HBC	Inlet/Outlet	mm O.D.	42				
	To Indoor unit	Inlet/Outlet	mm O.D.	22				
	Inlet/Outlet	mm I.D. (Min)	Total down-stream Indoor unit capacity	Piping length from Main-HBC to farthest Indoor unit				
			W/WP/WL10	Max 20m	Max 40m			
			W/WP/WL11-15	12	12			
			W/WP/WL16-25	12	15.5			
			W/WP/WL26-32	15.5	15.5			
			W/WP/WL33-50	15.5	19.9			
			W/WP/WL51-63	19.9	19.9			
			W/WP/WL64-80	19.9	25.2			
			W/WP/WL81-100	25.2	25.2			
			W/WP/WL101-150	25.2	32.6			
			W/WP/WL151-250	32.6	32.6			
			W/WP/WL251-300	32.6	39.6			
			W/WP/WL301-750	39.6	50.8			
Field drain pipe size			mm (in.)	50.8				
Net weight			kg (lbs)	O.D. 26.7 (1-1/16)				
Standard attachment	Document		209 (461) [233 (514) with water]					
	Accessories		-					
Optional parts			-					

Notes:

- 1.Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
- 2.This unit is for R32 refrigerant.
- 3.Install this unit 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 at least 5 m away from any indoor units.)
- 4.Please install the HBC 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 pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work 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.
- 10.Please refer to the DATA BOOK 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 in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK 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 DATA BOOK on installation restrictions.

1. SPECIFICATIONS

HBC controller

Model				CMB-WM108V-BB							
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		0.14-0.14-0.14		0.14-0.14-0.14					
	Heating	A		0.14-0.14-0.14		0.14-0.14-0.14					
Sound pressure level (measured in anechoic room)	dB <A>			-							
Applicable temperature range of installation site *18	°C (D.B.)			0 to 32							
External finish				Galvanized steel plate							
Connectable outdoor/heat source unit model				-							
Indoor unit capacity connectable to 1 branch				Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL81.)							
External dimension H x W x D		mm		310 x 930 x 630							
		in.		12-1/4 x 36-5/8 x 24-13/16							
Water piping diameter (Horizontal type HBC connection)											
Connection size	To Main-HBC controller	Inlet/Outlet	mm O.D.	28							
	To Indoor unit	Inlet/Outlet	mm O.D.	22							
Field pipe size	To Main-HBC controller	Total down-stream indoor unit capacity	W/WP/WL 10-100	W/WP/WL 101-200	W/WP/WL 201-300	W/WP/WL 301-400	W/WP/WL 401-500	W/WP/WL 501-525			
		Inlet/Outlet mm I.D. (Min)	20.0	25.8	30.0	33.3	36.2	36.8			
	To Indoor unit	Total down-stream indoor unit capacity	W/WP/WL10-50			W/WP/WL51-125					
		Inlet/Outlet mm I.D. (Min)	20			30					
Water piping diameter (Vertical type HBC connection)											
Connection size	To Main-HBC controller	Inlet/Outlet	mm O.D.	28							
	To Indoor unit	Inlet/Outlet	mm O.D.	22							
Field pipe size	Inlet/Outlet	mm I.D. (Min)	Total down-stream Indoor unit capacity	Piping length from Main-HBC to farthest Indoor unit							
				Max 20m	Max 40m	Max 60m					
			W/WP/WL10	12	12	12					
			W/WP/WL11-15	12	12	15.5					
			W/WP/WL16-25	15.5	15.5	15.5					
			W/WP/WL26-32	15.5	19.9	19.9					
			W/WP/WL33-50	19.9	19.9	19.9					
			W/WP/WL51-63	19.9	25.2	25.2					
			W/WP/WL64-80	25.2	25.2	25.2					
			W/WP/WL81-100	25.2	25.2	32.6					
			W/WP/WL101-150	32.6	32.6	32.6					
			W/WP/WL151-250	32.6	32.6	39.6					
			W/WP/WL251-300	32.6	39.6	50.8					
			W/WP/WL301-750	50.8	50.8	50.8					
Field drain pipe size	mm (in.)		O.D. 32 (1-1/4)								
Net weight	kg (lbs)		40 (89) [45 (100) with water]								
Standard attachment	Document		-								
	Accessories		Drain Connection pipe, Washer, Tie band								
Optional parts	-										

Notes:

1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. This unit is for water.
3. Install this unit 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.)
4. Please install the Sub-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 pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work 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 refer to the DATA BOOK or the Installation Manual for the specified water quality.
10. This unit is not designed for outside installations.
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.
12. Please do not use ground water and well water.
13. Can't use singleness. (Main-HBC controller is necessary)
14. The unit cannot be used when the outdoor temperature is outside the guaranteed operation range.
If the unit is used in such condition, the unit may not go into the Thermo-ON mode.
Guaranteed operation range: -5 to 52°C in cooling mode, -20 to 15.5°C in heating mode.
15. This product is not designed for preservation of food, animals, plants, precision equipment, or art objects.
To prevent quality loss, do not use the product for purposes other than what it is designed for.
16. The ambient relative humidity of the HBC controller needs to be kept below 80%.
17. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method.
Please refer to the Installation Manual for more information.
18. When installing the HBC controller in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK and the Installation Manual).

1. SPECIFICATIONS

HBC controller

HBC controller

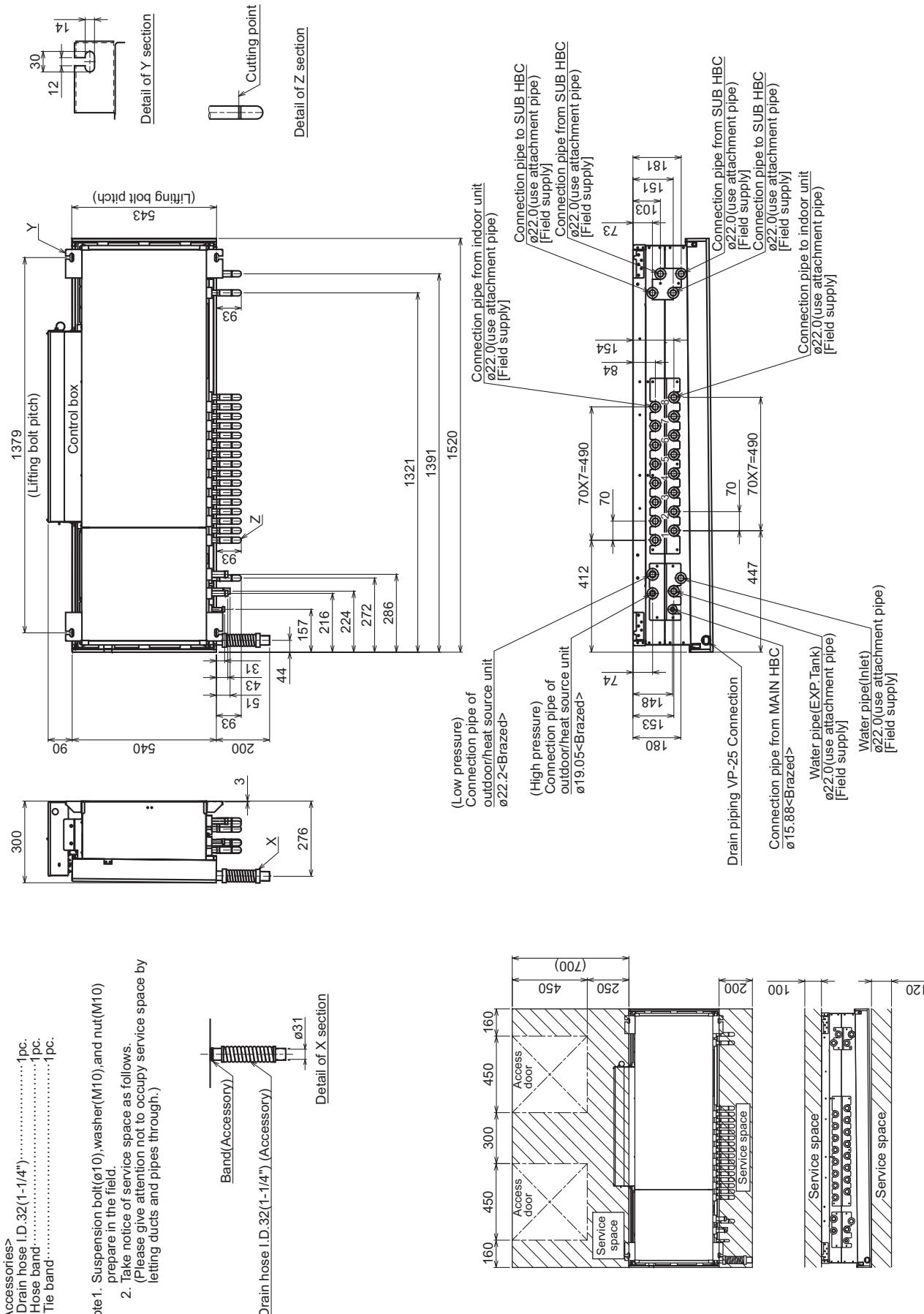
Model				CMB-WM1016V-BB									
Number of branch				16									
Power source				1-phase 220-230-240 V									
				50 Hz		60 Hz							
Power input (220-230-240)	Cooling	KW		0.01-0.01-0.01		0.01-0.01-0.01							
	Heating	KW		0.01-0.01-0.01		0.01-0.01-0.01							
Current input (220-230-240)	Cooling	A		0.14-0.14-0.14		0.14-0.14-0.14							
	Heating	A		0.14-0.14-0.14		0.14-0.14-0.14							
Sound pressure level (measured in anechoic room)				dB <A>									
Applicable temperature range of installation site *18				°C (D.B.)									
External finish				Galvanized steel plate									
Connectable outdoor/heat source unit model													
Indoor unit capacity connectable to 1 branch				Model WP/W/WL80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds WP/W/WL81.)									
External dimension H x W x D			mm	310 x 1,210 x 630									
			in.	12-1/4 x 47-11/16 x 24-13/16									
Water piping diameter (Horizontal type HBC connection)													
Connection size	To Main-HBC controller	Inlet/Outlet	mm O.D.	28									
	To Indoor unit	Inlet/Outlet	mm O.D.	22									
Field pipe size	Total down-stream indoor unit capacity			W/WP/WL 10-100	W/WP/WL 101-200	W/WP/WL 201-300	W/WP/WL 301-400	W/WP/WL 401-500	W/WP/WL 501-525				
	To Main-HBC controller	Inlet/Outlet	mm I.D. (Min)	20.0	25.8	30.0	33.3	36.2	36.8				
	Total down-stream indoor unit capacity			W/WP/WL10-50				W/WP/WL51-125					
	To Indoor unit	Inlet/Outlet	mm I.D. (Min)	20				30					
Water piping diameter (Vertical type HBC connection)													
Connection size	To Main-HBC controller	Inlet/Outlet	mm O.D.	28									
	To Indoor unit	Inlet/Outlet	mm O.D.	22									
Field pipe size	Inlet/Outlet	mm I.D. (Min)	Total down-stream Indoor unit capacity	Piping length from Main-HBC to farthest Indoor unit									
				Max 20m		Max 40m		Max 60m					
				W/WP/WL10	12	12	12						
				W/WP/WL11-15	12	12	15.5						
				W/WP/WL16-25	15.5	15.5	15.5						
				W/WP/WL26-32	15.5	19.9	19.9						
				W/WP/WL33-50	19.9	19.9	19.9						
				W/WP/WL51-63	19.9	25.2	25.2						
				W/WP/WL64-80	25.2	25.2	25.2						
				W/WP/WL81-100	25.2	25.2	32.6						
				W/WP/WL101-150	32.6	32.6	32.6						
				W/WP/WL151-250	32.6	32.6	39.6						
				W/WP/WL251-300	32.6	39.6	50.8						
				W/WP/WL301-750	50.8	50.8	50.8						
Field drain pipe size			mm (in.)	O.D. 32 (1-1/4)									
Net weight			kg (lbs)	53 (117) [62 (137) with water]									
Standard attachment	Document			-									
	Accessories			Drain Connection pipe, Washer, Tie band									
Optional parts				-									

Notes:

1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. This unit is for water.
3. Install this unit 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.)
4. Please install the Sub-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 pipe-work use a non-oxidative brazing method.
Oxidation of the pipe-work 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 refer to the DATA BOOK or the Installation Manual for the specified water quality.
10. This unit is not designed for outside installations.
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.
12. Please do not use ground water and well water.
13. Can't use singleness. (Main-HBC controller is necessary)
14. The unit cannot be used when the outdoor temperature is outside the guaranteed operation range.
If the unit is used in such condition, the unit may not go into the Thermo-ON mode.
Guaranteed operation range: -5 to 52°C in cooling mode, -20 to 15.5°C in heating mode.
15. This product is not designed for preservation of food, animals, plants, precision equipment, or art objects.
To prevent quality loss, do not use the product for purposes other than what it is designed for.
16. The ambient relative humidity of the HBC controller needs to be kept below 80%.
17. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method.
Please refer to the Installation Manual for more information.
18. When installing the HBC controller in an environment which may drop below 0°C, please add antifreeze liquid to the circulating water. (Refer to the DATA BOOK and the Installation Manual).

CMB-WM108V-AA

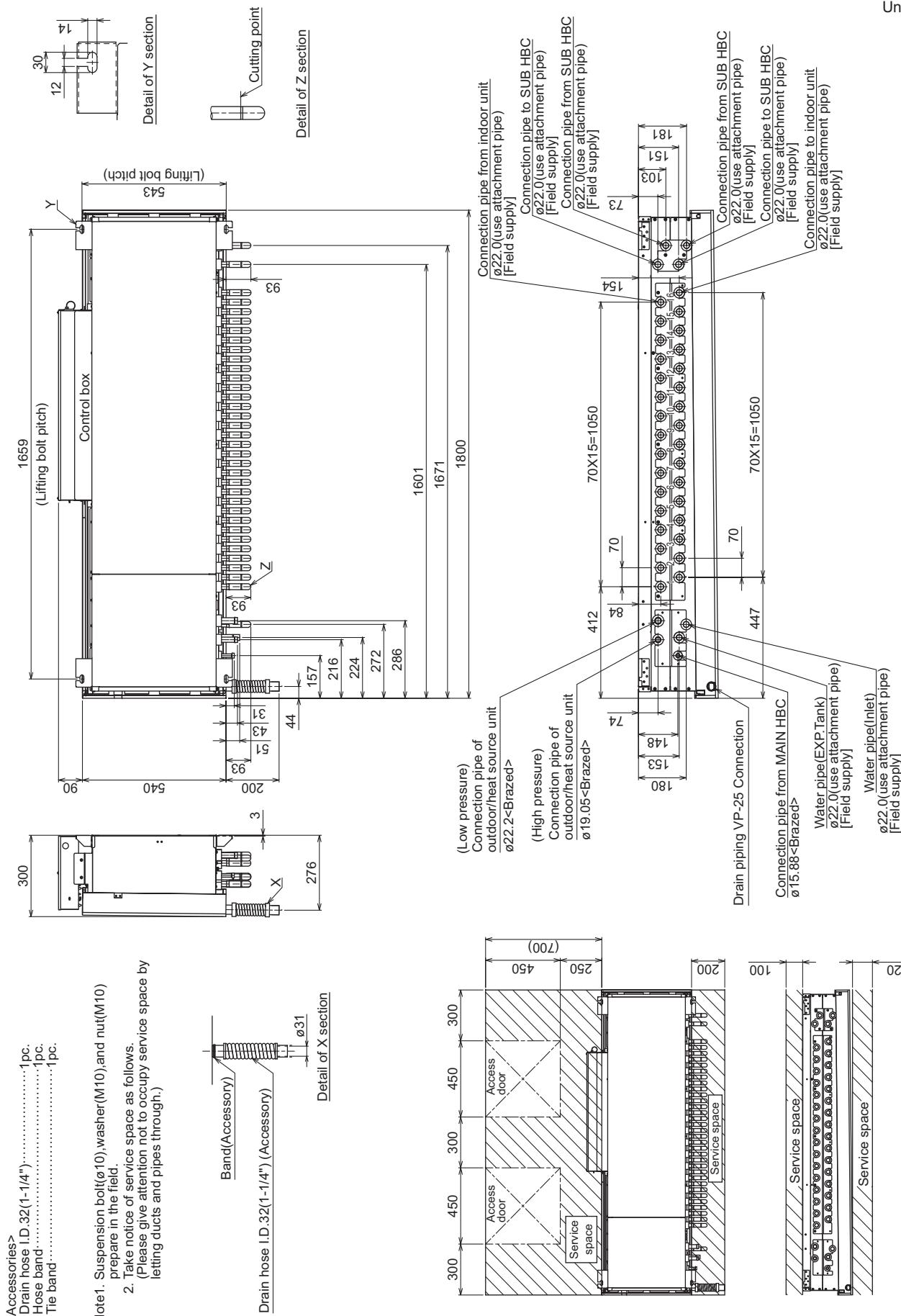
Unit : mm



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

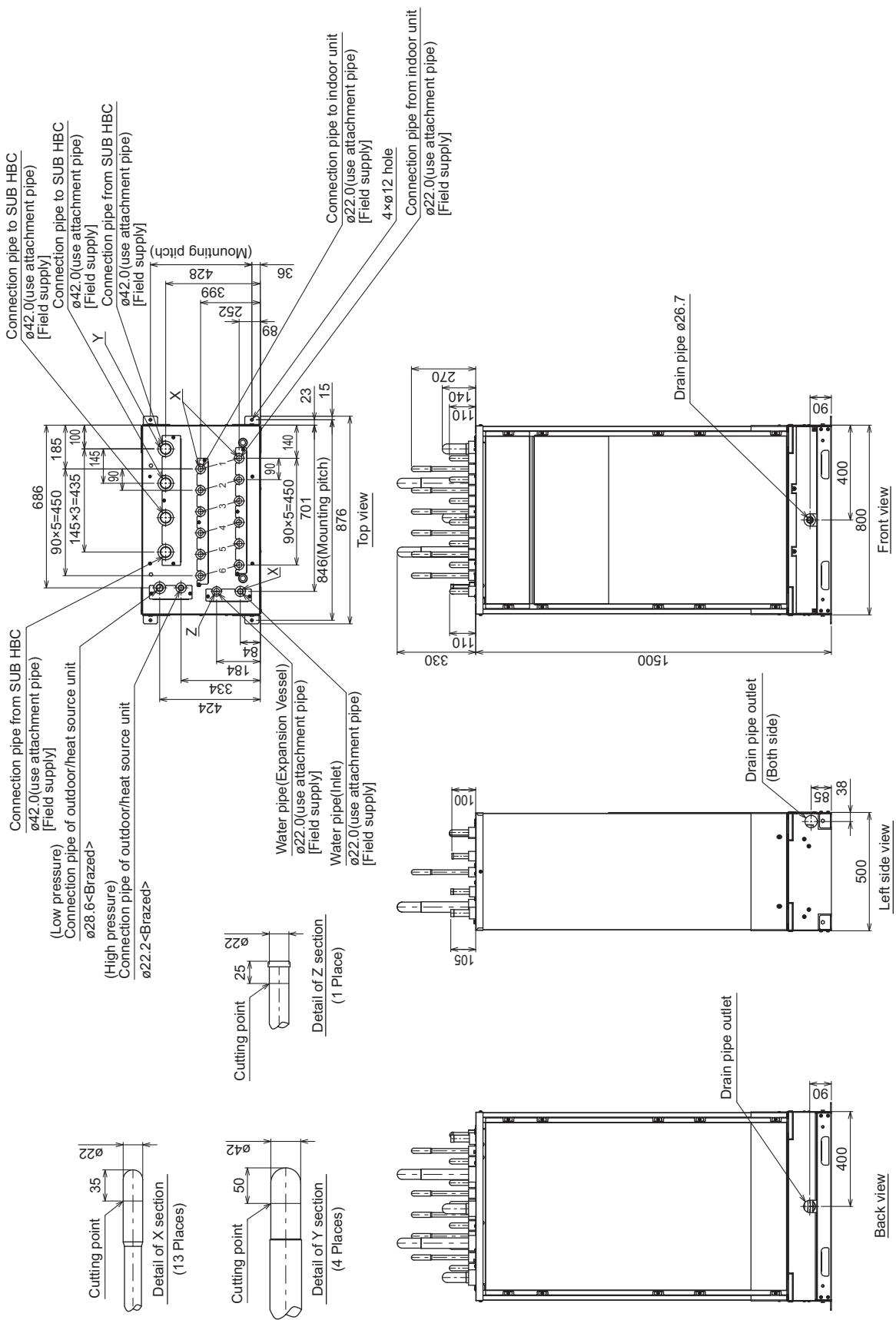
- Note 1. Suspension bolt (ø10), washer (M10), and nut (M10) prepare in the field.
 2. Take notice of service space as follows.
 (Please give attention not to occupy service space by letting ducts and pipes through.)

CMB-WM1016V-AA



CMB-WM350, 500F-AA

Unit : mm



Unit : mm

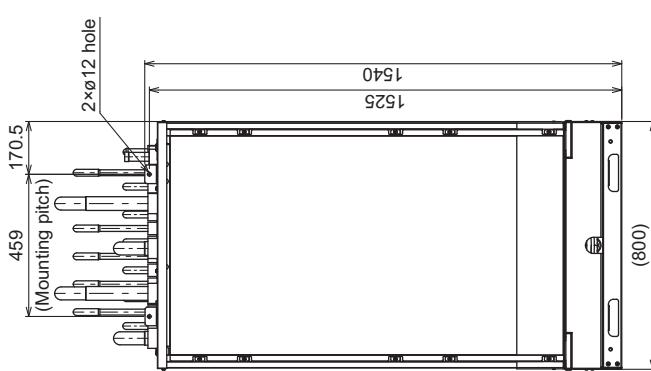
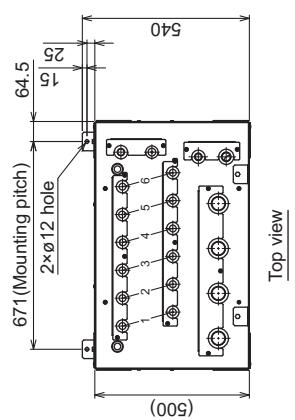


Fig.C

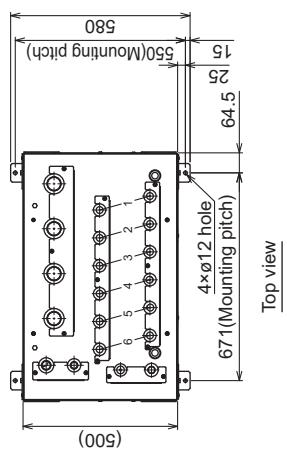


Fig.B

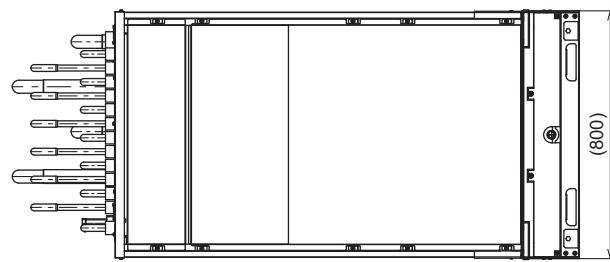


Fig.A

Note1.Take notice of service space as Fig.A.
(Please give attention not to occupy service space by letting pipes through.)

- 2.By changing the direction of the drain pan,it is possible to connect the drain pipe from the back side.
- In case of removing the drain pan after the unit is installed, please secure a service space of 150 mm to the left and right sides. Refer to the Installation Manual for changing the direction of the drain pan.
- Maintenance is possible only from the front, however the serviceability can be improved by securing a service space of 450mm on the left, right and back side and removing the panels.
- It is also possible to hold the unit as shown in Fig. B and Fig. C. Refer to the Installation Manual for holding the unit.
- Refer to the DATA BOOK about connection pipe and drain pipe diameter size.
- Refer to the Installation Manual about the specification for connection pipe and drain pipe insulation.

2. EXTERNAL DIMENSIONS

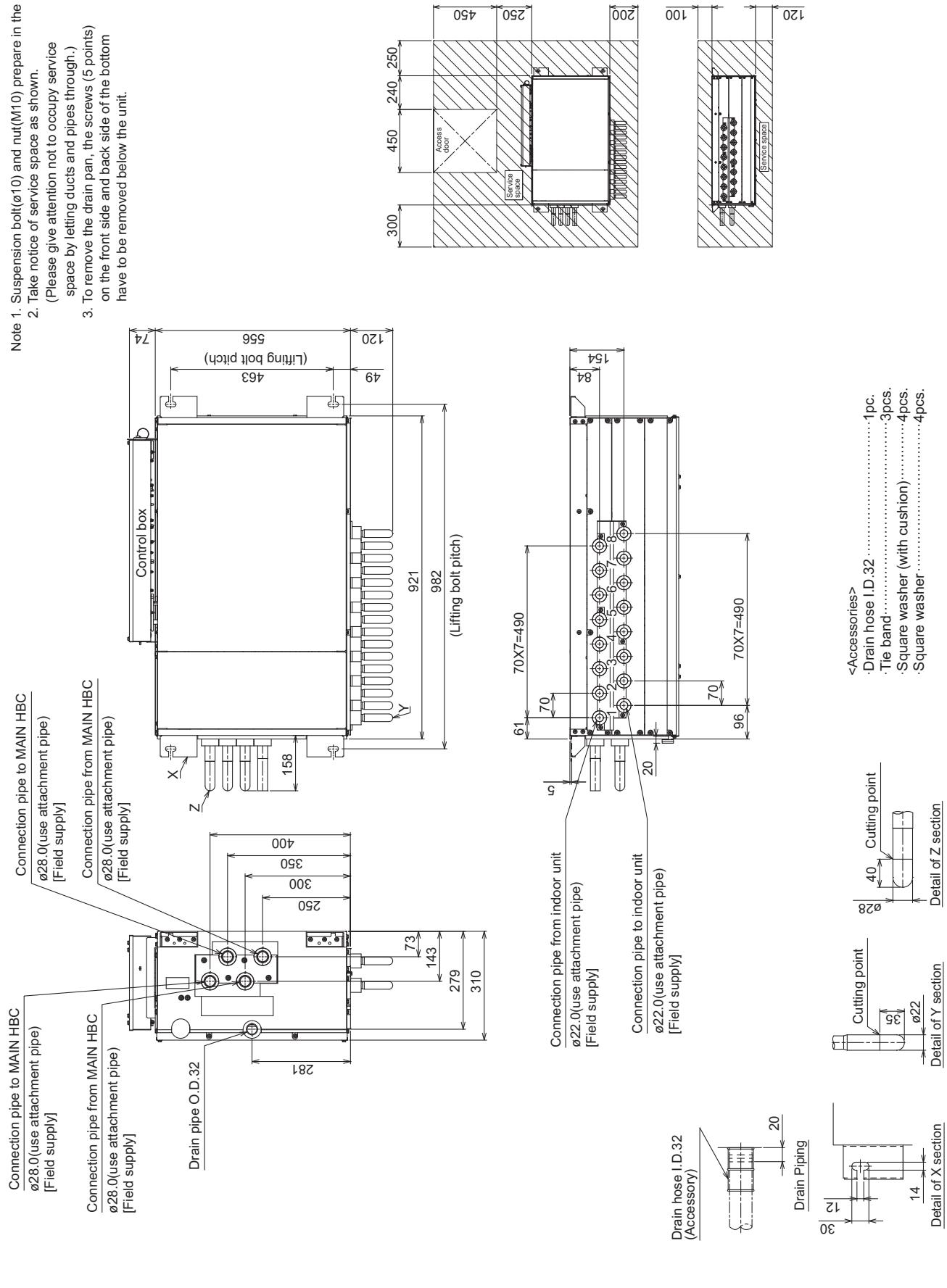
HBC controller

HBC controller

CMB-WM108V-BB

Unit : mm

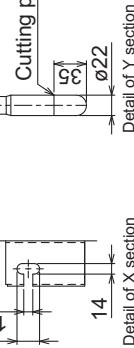
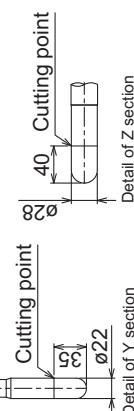
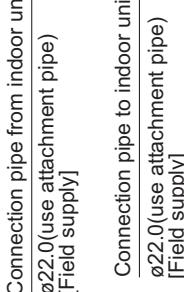
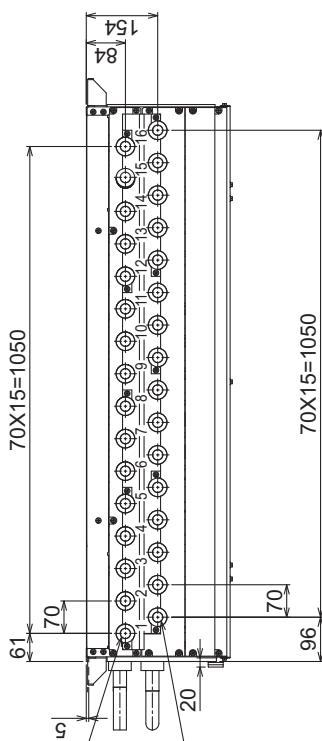
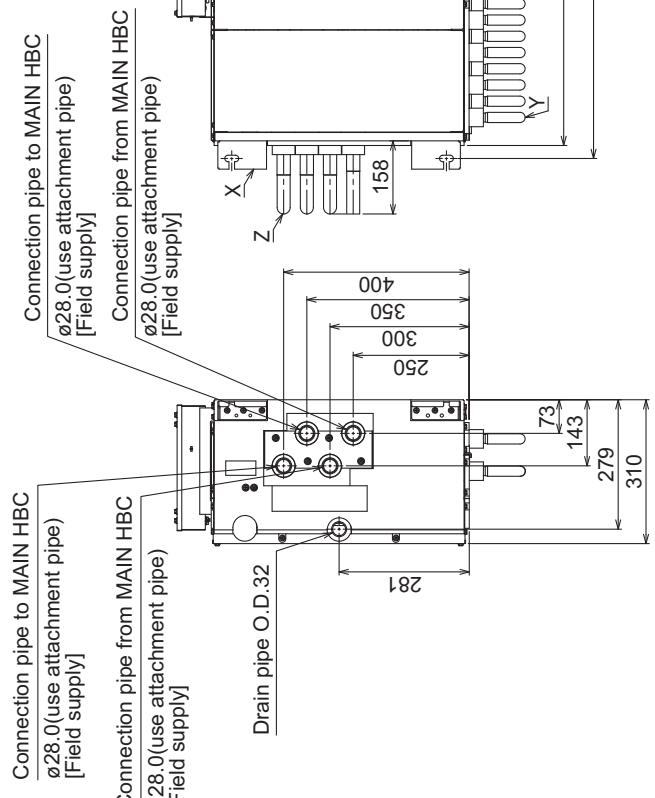
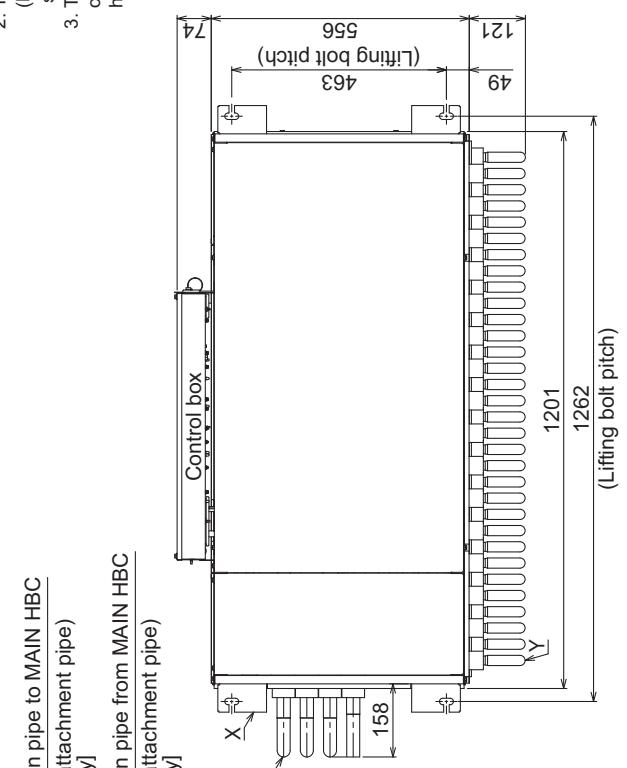
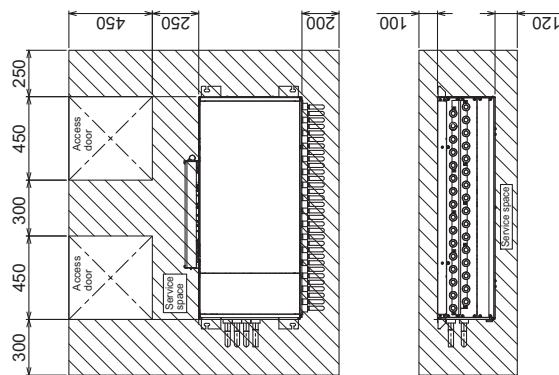
- 1. Suspension bolt($\varnothing 10$) and nut($M10$) prepare in the field.
- 2. Take notice of service space as shown.
(Please give attention not to occupy service space by letting ducts and pipes through.)
- 3. To remove the drain pan, the screws (5 points) on the front side and back side of the bottom have to be removed below the unit.



CMB-WM1016V-BB

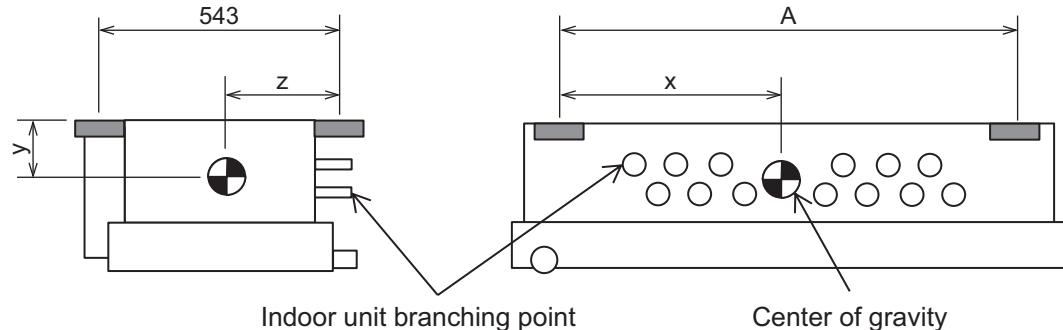
Unit : mm

- Note 1. Suspension bolt(ø10) and nut(M10) prepare in the field.
 2. Take notice of service space as shown.
 (Please give attention not to occupy service space by letting ducts and pipes through.)
 3. To remove the drain pan, the screws (5 points) on the front side and back side of the bottom have to be removed below the unit.



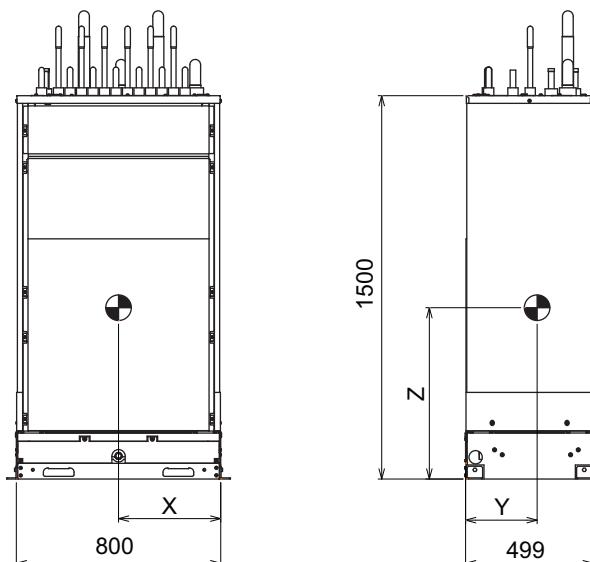
<Accessories>
 ·Drain hose I.D.32 1pc.
 ·Te band 3pcs.
 ·Square washer (with cushion) 4pcs.
 ·Square washer 4pcs.

CMB-WM108, 1016V-AA



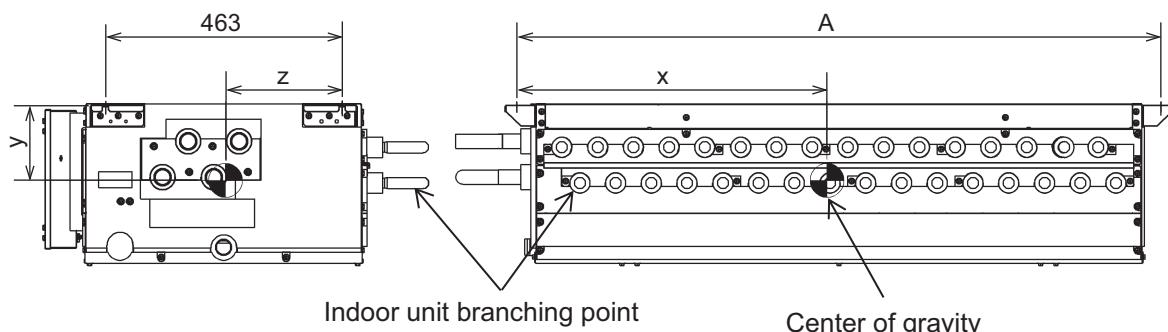
	CMB-WM108V-AA	CMB-WM1016V-AA
A (mm)	1379	1659
x (mm)	680	825
y (mm)	145	145
z (mm)	285	285

CMB-WM350, 500F-AA



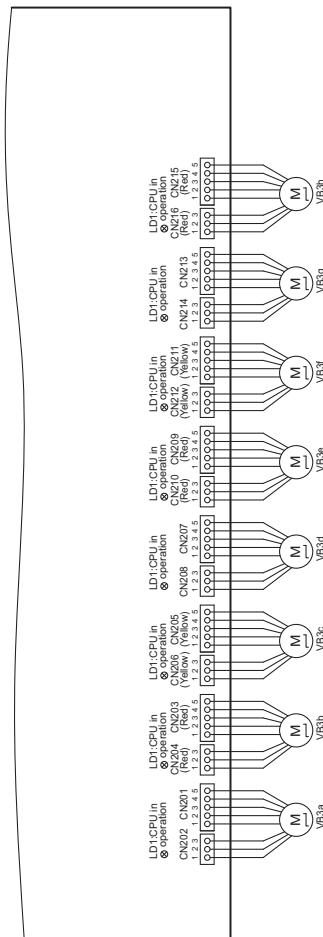
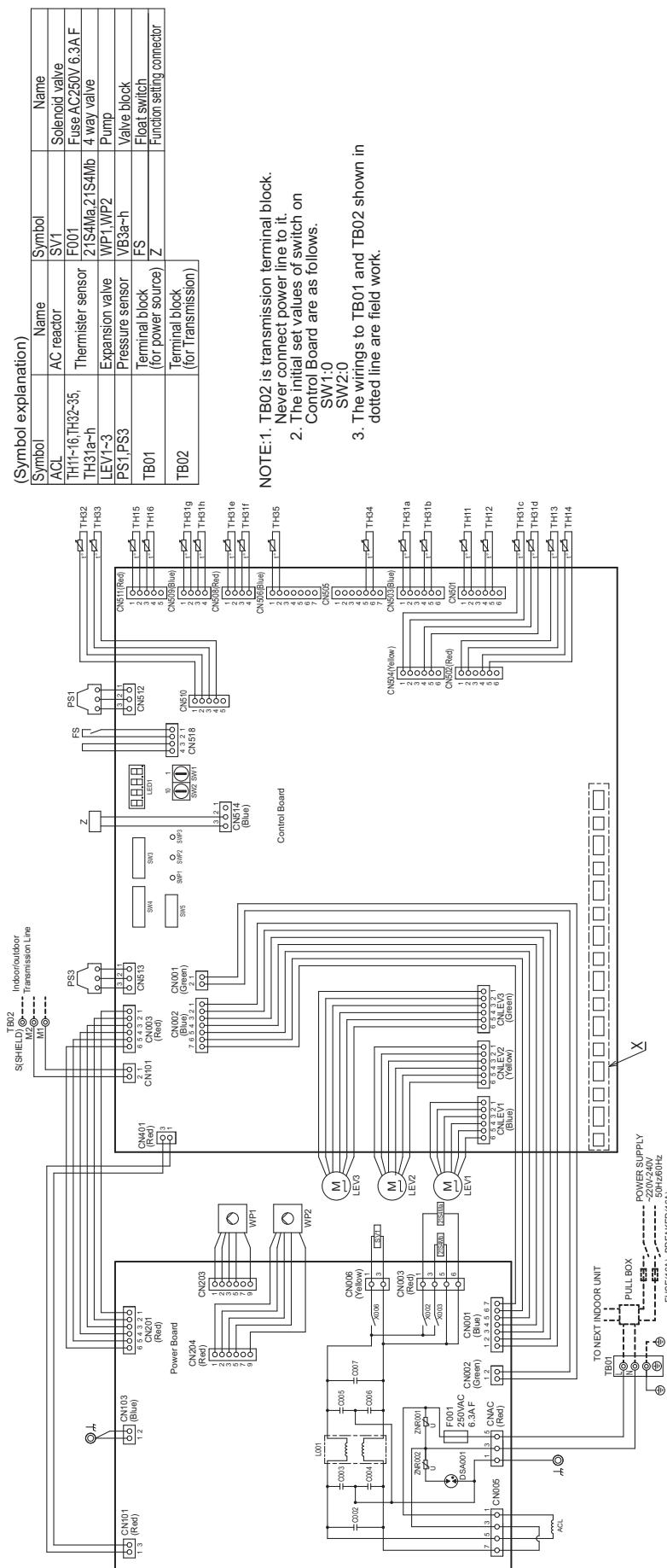
	CMB-WM350F-AA	CMB-WM500F-AA
x (mm)	400	400
y (mm)	270	280
z (mm)	650	670

CMB-WM108, 1016V-BB

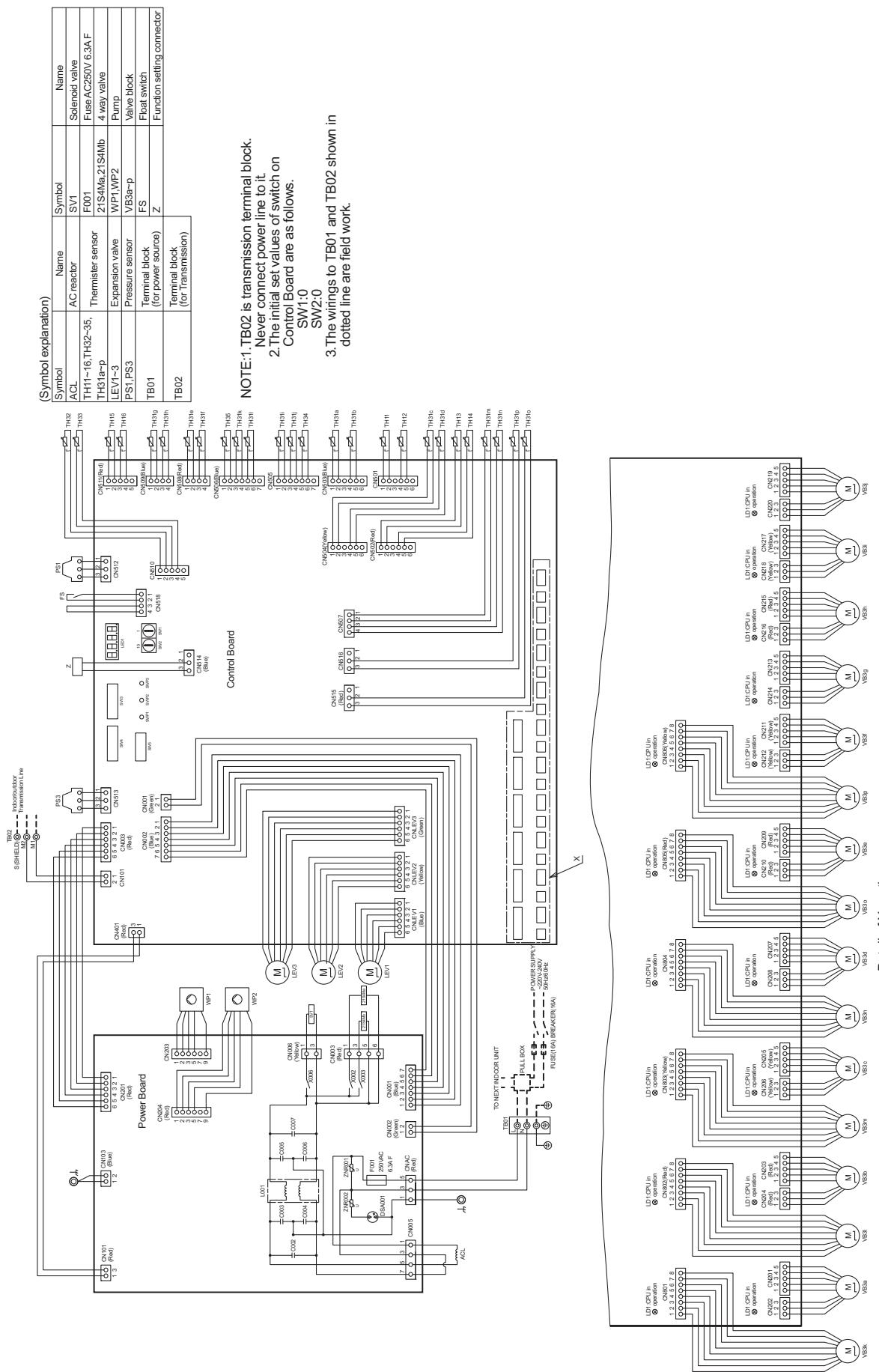


	CMB-WM108V-BB	CMB-WM1016V-BB
A (mm)	982	1262
x (mm)	466	608
y (mm)	142	146
z (mm)	249	228

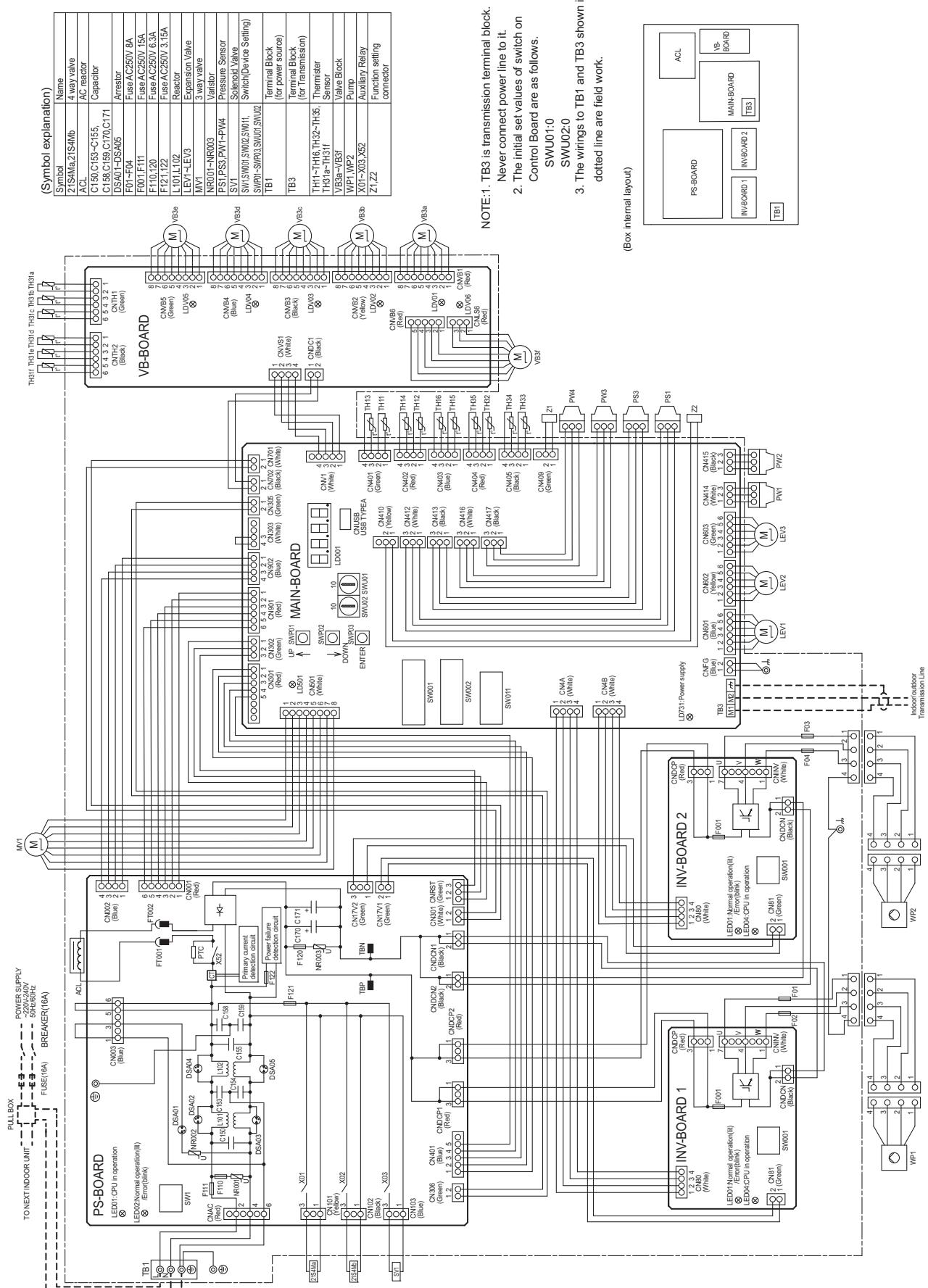
CMB-WM108V-AA



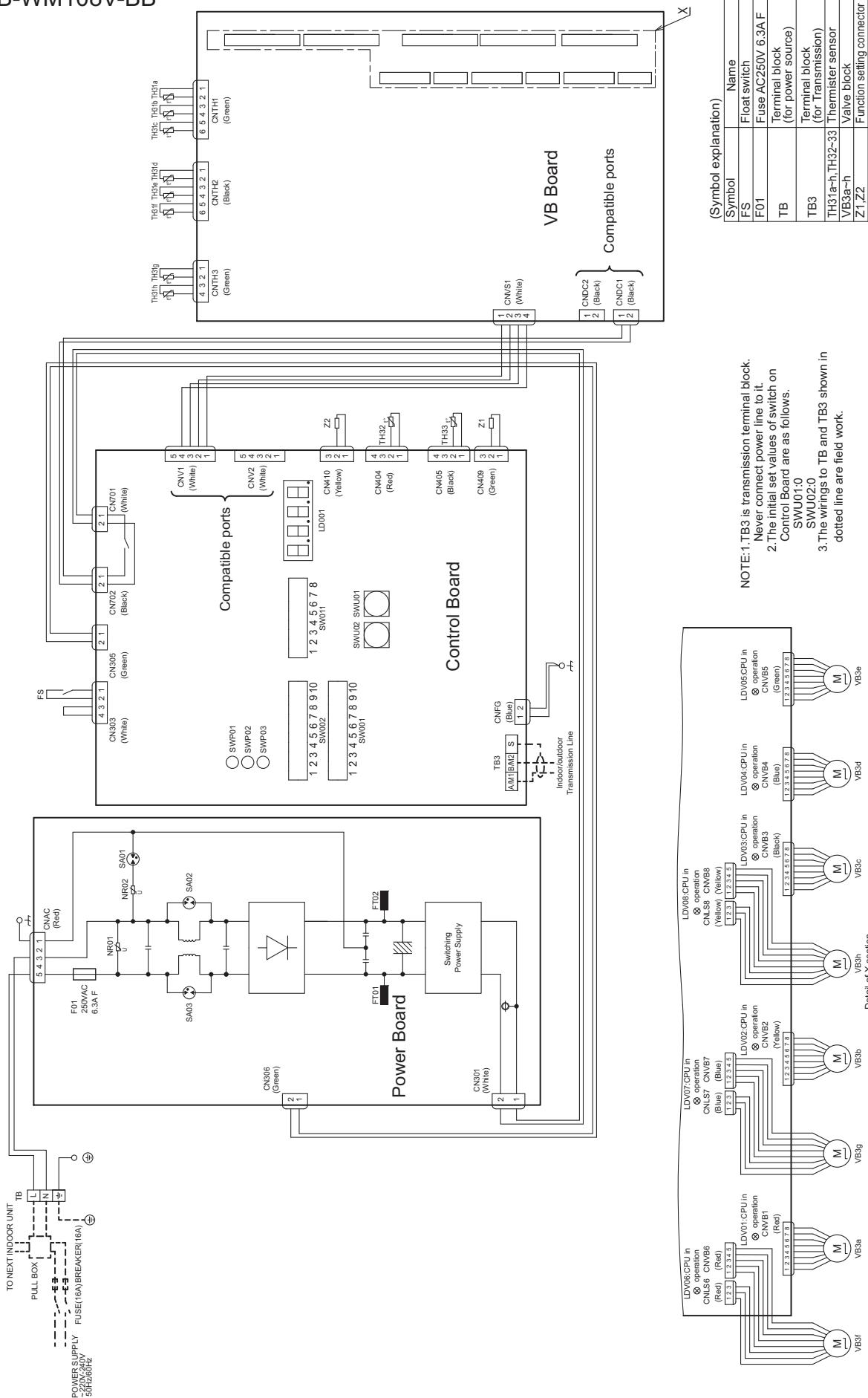
CMB-WM1016V-AA



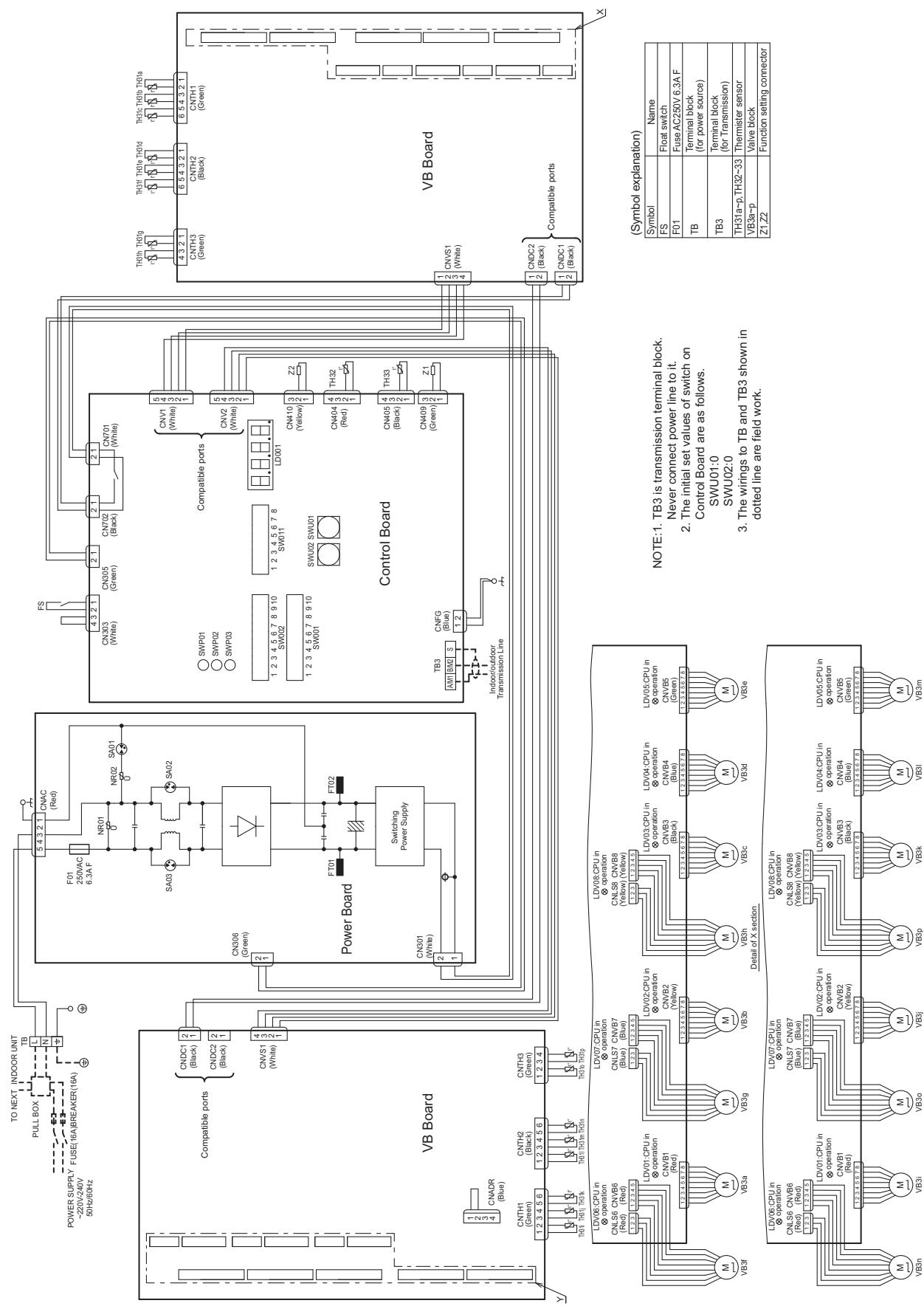
CMB-WM350, 500F-AA



CMB-WM108V-BB



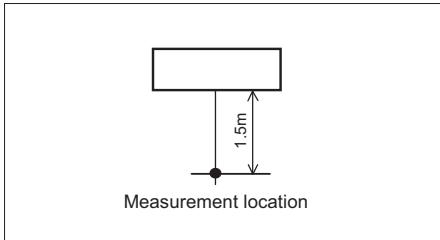
CMB-WM1016V-BB



5-1. Sound levels

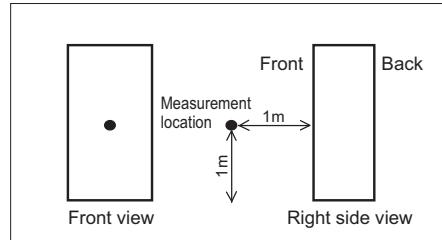
(Measured point)

CMB-WM108V-AA
CMB-WM1016V-AA



* Measured in anechoic room.

CMB-WM350F-AA
CMB-WM500F-AA

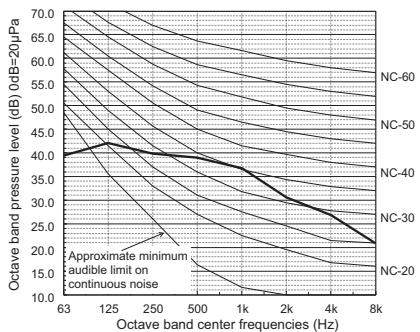


* Measured in anechoic room.

5-2. NC curves

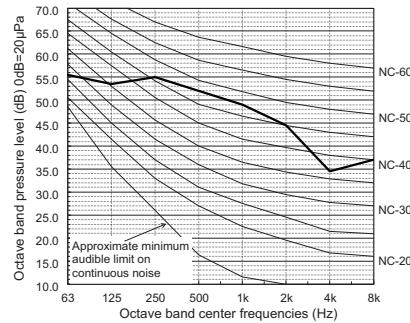
CMB-WM108V-AA,CMB-WM1016V-AA

Power Source: 220-230-240V, 50/60Hz



CMB-WM350F-AA,CMB-WM500F-AA

Power Source: 220-230-240V, 50/60Hz



•For Horizontal type HBC, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.

For Vertical type HBC, it is recommended to be installed in places such as machinery room and linen room.

6. ELECTRICAL CHARACTERISTICS

HBC controller

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-WM350F-AA CMB-WM500F-AA	50/60	220	Max.: 264V Min.: 198V	7.81	15	6.82
		230				6.52
		240				6.25
CMB-WM108V-BB CMB-WM1016V-BB	50/60	220	Max.: 264V Min.: 198V	0.17	15	0.14
		230				0.14
		240				0.14

7-1. Compatibility

<Horizontal type Main-HBC connection>

Outdoor/Heat source unit	Main 1	Sub 1	Main 2	Sub 2	Compatibility
PURY-(E)M-YNW	WM-V-AA type	—	—	—	Compatible
	WP type	—	—	—	Not compatible
	WM-V-AA type	WM-V-BB type	—	—	Compatible
	WM-V-AA type	WM-V-AB type	—	—	Compatible
	WM-V-AA type	WP type	—	—	Not compatible
	WP type	WM-V-BB type	—	—	Not compatible
	WP type	WM-V-AB type	—	—	Not compatible
	WP type	WP type	—	—	Not compatible
	WM-V-AA type	—	WM-V-AA type	—	Compatible
	WM-V-AA type	—	WP type	—	Not compatible
	WP type	—	WM-V-AA type	—	Not compatible
	WP type	—	WP type	—	Not compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	—	Compatible
	WM-V-AA type	WM-V-BB type	WP type	—	Not compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	—	Compatible
	WM-V-AA type	WM-V-AB type	WP type	—	Not compatible
	WM-V-AA type	WP type	WM-V-AA type	—	Not compatible
	WM-V-AA type	WP type	WP type	—	Not compatible
	WP type	WM-V-BB type	WM-V-AA type	—	Not compatible
	WP type	WM-V-BB type	WP type	—	Not compatible
	WP type	WM-V-AB type	WM-V-AA type	—	Not compatible
	WP type	WM-V-AB type	WP type	—	Not compatible
	WP type	WP type	WM-V-AA type	—	Not compatible
	WP type	WP type	WP type	—	Not compatible
	WM-V-AA type	—	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	—	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	—	WM-V-AA type	WP type	Not compatible
	WM-V-AA type	—	WP type	WM-V-BB type	Not compatible
	WM-V-AA type	—	WP type	WM-V-AB type	Not compatible
	WM-V-AA type	—	WP type	WP type	Not compatible
	WP type	—	WM-V-AA type	WM-V-BB type	Not compatible
	WP type	—	WM-V-AA type	WM-V-AB type	Not compatible
	WP type	—	WM-V-AA type	WP type	Not compatible
	WP type	—	WP type	WM-V-BB type	Not compatible
	WP type	—	WP type	WM-V-AB type	Not compatible
	WP type	—	WP type	WP type	Not compatible
	WP type	—	WP type	WP type	Not compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WP type	Not compatible
	WM-V-AA type	WM-V-BB type	WP type	WM-V-BB type	Not compatible
	WM-V-AA type	WM-V-BB type	WP type	WM-V-AB type	Not compatible
	WM-V-AA type	WM-V-BB type	WP type	WP type	Not compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	WP type	Not compatible
	WM-V-AA type	WM-V-AB type	WP type	WM-V-BB type	Not compatible
	WM-V-AA type	WM-V-AB type	WP type	WM-V-AB type	Not compatible
	WM-V-AA type	WM-V-AB type	WP type	WP type	Not compatible
	WP type	WM-V-BB type	WM-V-AA type	WM-V-BB type	Not compatible
	WP type	WM-V-BB type	WM-V-AA type	WM-V-AB type	Not compatible
	WP type	WM-V-BB type	WM-V-AA type	WP type	Not compatible
	WP type	WM-V-BB type	WP type	WM-V-BB type	Not compatible
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	WP type	WM-V-AB type	WM-V-AA type	WM-V-BB type	Not compatible
	WP type	WM-V-AB type	WM-V-AA type	WM-V-AB type	Not compatible
	WP type	WM-V-AB type	WM-V-AA type	WP type	Not compatible
	WP type	WM-V-AB type	WP type	WM-V-BB type	Not compatible
	WP type	WM-V-AB type	WP type	WM-V-AB type	Not compatible
	WP type	WM-V-AB type	WP type	WP type	Not compatible
	WP type	WP type	WM-V-AA type	WM-V-BB type	Not compatible
	WP type	WP type	WM-V-AA type	WM-V-AB type	Not compatible
	WP type	WP type	WM-V-AA type	WP type	Not compatible
	WP type	WP type	WP type	WM-V-BB type	Not compatible
	WP type	WP type	WP type	WM-V-AB type	Not compatible
	WP type	WP type	WP type	WP type	Not compatible

Outdoor/Heat source unit	Main 1	Sub 1	Main 2	Sub 2	Compatibility
PURY-(E)P-YNW PURY-(E)P-YLM PQRY-P-YLM	WM-V-AA type	—	—	—	Compatible
	WP type	—	—	—	Compatible
	WM-V-AA type	WM-V-BB type	—	—	Compatible
	WM-V-AA type	WM-V-AB type	—	—	Compatible
	WM-V-AA type	WP type	—	—	Compatible
	WP type	WM-V-BB type	—	—	Compatible
	WP type	WM-V-AB type	—	—	Compatible
	WP type	WP type	—	—	Compatible
	WM-V-AA type	—	WM-V-AA type	—	Compatible
	WM-V-AA type	—	WP type	—	Compatible
	WP type	—	WM-V-AA type	—	Compatible
	WP type	—	WP type	—	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	—	Compatible
	WM-V-AA type	WM-V-BB type	WP type	—	Compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	—	Compatible
	WM-V-AA type	WM-V-AB type	WP type	—	Compatible
	WM-V-AA type	WP type	WM-V-AA type	—	Compatible
	WM-V-AA type	WP type	WP type	—	Compatible
	WP type	WM-V-BB type	WM-V-AA type	—	Compatible
	WP type	WM-V-BB type	WP type	—	Compatible
	WP type	WM-V-AB type	WM-V-AA type	—	Compatible
	WP type	WM-V-AB type	WP type	—	Compatible
	WP type	WP type	WM-V-AA type	—	Compatible
	WP type	WP type	WP type	—	Compatible
	WM-V-AA type	—	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	—	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	—	WM-V-AA type	WP type	Compatible
	WM-V-AA type	—	WP type	WM-V-BB type	Compatible
	WM-V-AA type	—	WP type	WM-V-AB type	Compatible
	WM-V-AA type	—	WP type	WP type	Compatible
	WP type	—	WM-V-AA type	WM-V-BB type	Compatible
	WP type	—	WM-V-AA type	WM-V-AB type	Compatible
	WP type	—	WM-V-AA type	WP type	Compatible
	WP type	—	WP type	WM-V-BB type	Compatible
	WP type	—	WP type	WM-V-AB type	Compatible
	WP type	—	WP type	WP type	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-BB type	WM-V-AA type	WP type	Compatible
	WM-V-AA type	WM-V-BB type	WP type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-BB type	WP type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-BB type	WP type	WP type	Compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-AB type	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-AB type	WP type	WM-V-BB type	Compatible
	WM-V-AA type	WM-V-AB type	WP type	WM-V-AB type	Compatible
	WM-V-AA type	WM-V-AB type	WP type	WP type	Compatible
	WM-V-AA type	WP type	WM-V-AA type	WM-V-BB type	Compatible
	WM-V-AA type	WP type	WM-V-AA type	WM-V-AB type	Compatible
	WM-V-AA type	WP type	WM-V-AA type	WP type	Compatible
	WM-V-AA type	WP type	WP type	WM-V-BB type	Compatible
	WM-V-AA type	WP type	WP type	WM-V-AB type	Compatible
	WM-V-AA type	WP type	WP type	WP type	Compatible
	WP type	WM-V-BB type	WM-V-AA type	WM-V-BB type	Compatible
	WP type	WM-V-BB type	WM-V-AA type	WM-V-AB type	Compatible
	WP type	WM-V-BB type	WM-V-AA type	WP type	Compatible
	WP type	WM-V-BB type	WP type	WM-V-BB type	Compatible
	WP type	WM-V-BB type	WP type	WM-V-AB type	Compatible
	WP type	WM-V-BB type	WP type	WP type	Compatible
	WP type	WM-V-AB type	WM-V-AA type	WM-V-BB type	Compatible
	WP type	WM-V-AB type	WM-V-AA type	WM-V-AB type	Compatible
	WP type	WM-V-AB type	WM-V-AA type	WP type	Compatible
	WP type	WM-V-AB type	WP type	WM-V-BB type	Compatible
	WP type	WM-V-AB type	WP type	WM-V-AB type	Compatible
	WP type	WM-V-AB type	WP type	WP type	Compatible
	WP type	WP type	WM-V-AA type	WM-V-BB type	Compatible
	WP type	WP type	WM-V-AA type	WM-V-AB type	Compatible
	WP type	WP type	WM-V-AA type	WP type	Compatible
	WP type	WP type	WP type	WM-V-BB type	Compatible
	WP type	WP type	WP type	WM-V-AB type	Compatible
	WP type	WP type	WP type	WP type	Compatible

<Vertical type Main-HBC connection>

Outdoor/Heat source unit	Main 1	Sub 1	Sub 2	Sub 3	Compatibility
PURY-(E)M-YNW-A1	WM-F-AA type	–	–	–	Compatible
	WM-F-AA type	WM-V-BB type	–	–	Compatible
	WM-F-AA type	WM-V-AB type	–	–	Not compatible
	WM-F-AA type	WP type	–	–	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	–	Compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	–	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	–	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	–	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	–	Not compatible
	WM-F-AA type	WM-V-AB type	WP type	–	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	–	Not compatible
	WM-F-AA type	WP type	WM-V-AB type	–	Not compatible
	WM-F-AA type	WP type	WP type	–	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WM-V-BB type	Compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WP type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WP type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WP type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WP type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WM-V-BB type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WP type	Not compatible
	WM-F-AA type	WP type	WP type	WM-V-BB type	Not compatible
	WM-F-AA type	WP type	WP type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WP type	WP type	Not compatible

Outdoor/Heat source unit	Main 1	Sub 1	Sub 2	Sub 3	Compatibility
PURY-(E)P-YNW PURY-(E)P-YLM PQRY-P-YLM	WM-F-AA type	—	—	—	Not compatible
	WM-F-AA type	WM-V-BB type	—	—	Not compatible
	WM-F-AA type	WM-V-AB type	—	—	Not compatible
	WM-F-AA type	WP type	—	—	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	—	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	—	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	—	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	—	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	—	Not compatible
	WM-F-AA type	WM-V-AB type	WP type	—	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	—	Not compatible
	WM-F-AA type	WP type	WM-V-AB type	—	Not compatible
	WM-F-AA type	WP type	WP type	—	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-BB type	WP type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WM-V-AB type	WP type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-BB type	WP type	WP type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WP type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-AB type	WM-V-AB type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-AB type	WP type	WM-V-BB type	Not compatible
	WM-F-AA type	WM-V-AB type	WP type	WM-V-AB type	Not compatible
	WM-F-AA type	WM-V-AB type	WP type	WP type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WM-V-BB type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WM-V-BB type	WP type	Not compatible
	WM-F-AA type	WP type	WM-V-AB type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WM-V-AB type	WP type	Not compatible
	WM-F-AA type	WP type	WP type	WM-V-BB type	Not compatible
	WM-F-AA type	WP type	WP type	WM-V-AB type	Not compatible
	WM-F-AA type	WP type	WP type	WP type	Not compatible

⚠ 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.

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