

1. SPECIFICATIONS

HBC controller

HBC controller

Model				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							
	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-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	mm (in.) O.D.	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze							
		Low press. Pipe	mm (in.) O.D.	19.05 (3/4) Braze	22.2 (7/8) Braze	28.58 (1-1/8) Braze						
	Water piping diameter											
Field pipe size	Connection size	To Sub-HBC	Inlet/Outlet	mm O.D.	42							
		To Indoor unit	Inlet/Outlet	mm O.D.	22							
					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. 26.7 (1-1/16)			
					Net weight			kg (lbs)	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.

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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 59-1/16 x 31-1/2 x 19-11/16				
				in.					
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) Braze					
				28.58 (1-1/8) Braze					
Low press. Pipe				mm (in.) O.D.					
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		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	
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					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. 26.7 (1-1/16)				
Net weight				kg (lbs)	209 (461) [233 (514) with water]				
Standard attachment	Document				-				
	Accessories				-				
Optional parts					-				

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