

1. SPECIFICATIONS

BC controller

BC controller

Model			CMB-M104V-MB-SV(-TR)					
Number of branch			4					
Power source			1-phase 220/230/240V					
			50Hz					
Power input	Cooling	kW	0.01/0.01/0.01					
	Heating	kW	0.01/0.01/0.01					
Current input	Cooling	A	0.05/0.05/0.05					
	Heating	A	0.05/0.05/0.05					
External finish			Galvanized steel plate					
Connectable Main BC controller			CMB-M104/106/108/1012V-MA-SV(-TR)					
The maximum number of connectable Sub BC controllers			11					
The maximum connectable capacity of indoor units			M350 for each					
Indoor unit capacity connectable to 1 branch		*16 *19	Model M80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds M81.)					
External dimension H x W x D		*17 mm in.	252 x 1040 x 880(970) 9-15/16 x 41 x 34-11/16(38-1/4)					
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity		High press. pipe	Low press. pipe		
			mm (in.) O.D.		-	-		
	To indoor unit		Liquid pipe			Gas pipe		
	*20 mm (in.) O.D.		Indoor unit Model M80 or smaller 6.35 (1/4) Brazed bigger than M80 9.52 (3/8) Brazed			Indoor unit Model M50 or smaller 12.7 (1/2) Brazed bigger than M50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)		
	To other BC controller		Total down-stream Indoor unit capacity		High press. pipe	Liquid pipe	Low press. pipe	
			mm (in.) O.D.		to M200	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
			mm (in.) O.D.		M201 to M300	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
			mm (in.) O.D.		M301 to M350	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
			mm (in.) O.D.		M351 to M400	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
			mm (in.) O.D.		M401 to M600	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
			mm (in.) O.D.		M601 to M650	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
			mm (in.) O.D.		M651 to M800	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed
			mm (in.) O.D.		M801 to M1000	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
			mm (in.) O.D.		M1001 or above	34.93 (1-3/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
Field drain pipe size		mm (in.)		OD32 (1-1/4)				
Net weight		kg (lbs)		43 (95)				
Sound power level (measured in anechoic room)	Rated operation	dB <A>	59					
	Defrost	dB <A>	71					
Sound pressure level (measured in anechoic room)	Rated operation	dB <A>	41					
	Defrost	dB <A>	53					
Accessories			Drain Connection pipe, Washer, Tie band					
Remarks			-					

- Notes:
- 1.Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
 - 2.The equipment is for 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 BC CONTROLLER at least 5m away from any indoor units.)
 - 4.Sound pressure /power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound pressure level /power level at the rated operation is the value of the cooling mode.
 - 5.The sound pressure /power 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.
 - 6.The solenoid valve switching sound is 56 dB (sound pressure level) regardless of the unit model.
 - 7.Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
 - 8.This unit is not designed for outside installations.
 - 9.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.
 - 10.The sound pressure level values were obtained at the location below 1.5m from the unit.
 - 11.The ambient relative humidity of the BC controller needs to be kept below 80%.
 - 12.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.
 - 13.For the insulation work of the piping and the installation method of the unit, follow the installation manual.
 - 14.A minimum floor area requirement varies depending on the installation site
 - 15.Can't use singleness. (MAIN BC CONTROLLER is necessary)
 - 16.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.
 - 17.The figure in parenthesis indicates the size including control box.
 - 18.The sound pressure level measured by the conventional method in JIS for reference purpose.
 - 19.Indoor units M100, M125, M140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)
 - 20.If indoor units M63,M71,M80 are connected and the length of the liquid pipe exceeds the restriction, use the one size larger pipe. Please refer to the Installation Manual for more information.

1. SPECIFICATIONS

BC controller

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Model			CMB-M108V-MB-SV(-TR)						
Number of branch			8						
Power source			1-phase 220/230/240V						
			50Hz						
Power input	Cooling	kW	0.01/0.01/0.01						
	Heating	kW	0.01/0.01/0.01						
Current input	Cooling	A	0.06/0.06/0.06						
	Heating	A	0.06/0.06/0.06						
External finish			Galvanized steel plate						
Connectable Main BC controller			CMB-M104/106/108/1012V-MA-SV(-TR)						
The maximum number of connectable Sub BC controllers			11						
The maximum connectable capacity of indoor units			M350 for each						
Indoor unit capacity connectable to 1 branch		*16 *19	Model M80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds M81.)						
External dimension H x W x D		*17 mm	252 x 1040 x 880(970)						
		in.	9-15/16 x 41 x 34-11/16(38-1/4)						
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity		High press. pipe		Low press. pipe			
		mm (in.) O.D.		-		-			
	To indoor unit	Liquid pipe			Gas pipe				
		*20 mm (in.) O.D.	Indoor unit Model M80 or smaller 6.35 (1/4) Braze bigger than M80 9.52 (3/8) Braze			Indoor unit Model M50 or smaller 12.7 (1/2) Braze bigger than M50 15.88 (5/8) Braze (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)			
	To other BC controller	Total down-stream Indoor unit capacity		High press. pipe		Liquid pipe		Low press. pipe	
		mm (in.) O.D.		to M200		9.52 (3/8) Braze		19.05 (3/4) Braze	
		mm (in.) O.D.		M201 to M300		9.52 (3/8) Braze		22.2 (7/8) Braze	
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		mm (in.) O.D.		M601 to M650		15.88 (5/8) Braze		28.58 (1-1/8) Braze	
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		mm (in.) O.D.		M801 to M1000		19.05 (3/4) Braze		41.28 (1-5/8) Braze	
mm (in.) O.D.		M1001 or above		19.05 (3/4) Braze		41.28 (1-5/8) Braze			
Field drain pipe size		mm (in.)		OD32 (1-1/4)					
Net weight		kg (lbs)		54 (120)					
Sound power level (measured in anechoic room)	Rated operation	dB <A>	59						
	Defrost	dB <A>	71						
Sound pressure level (measured in anechoic room)	*18 Rated operation	dB <A>	41						
	Defrost	dB <A>	53						
Accessories			Drain Connection pipe, Washer, Tie band						
Remarks			-						

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