1. SPECIFICATIONS

Model	CMB-M104V-KB1									
Number of branch	4									
Power source					1-phase 22	20-230-240 V				
			50Hz 60Hz							
Power input	Cooling	kW	0.060/0.068/0.076			0.048/0.054/0.060				
	Heating	kW	0.030/0.0	034/0.038		0.024/0.027/0.030				
Current input	Cooling	А	0.28/0.	30/0.32		0.22/0.24/0.25				
	Heating	A	0.14/0.	15/0.16			0.11/0	0.11/0.12/0.13		
External finish	Galvanized steel plate									
			(Lower	part dra	n pan: Pre-coated	galvanized sheets	s + powd	er coating)		
Connectable Main BC controller			CMB-M108/1012/1016V-JA1 (-TR), CMB-P1016V-KA1 (-TR)							
The maximum number of connectabl	e Sub BC controllers					11				
The maximum connectable capacity	of indoor units) for each				
External dimension H x W x D	mm	250 x 596 x 476								
		in.				-1/2 x 18-3/4				
Refrigerant	To outdoor/heat source	r	Connectable unit capa	acity	High pre	ss. pipe		Low press. pipe		
piping	To indoor unit	mm (in.) O.D.	-	d nine -		•		-		
diameter				d pipe	Gas pi					
		mm (in.) O.D.	Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed		. ,	Indoor unit Model 50 or smaller 12.7 (1/2) Braze bigger than 50 15 88 (5/8)		er than 50 15.88 (5/8) Brazed		
		mm (m.) 0.D.	bigger than 50 9.52 (5/6) brazed		(19.05 (3/4), 22.2 (7/8) with op		. ,			
	To other BC controller		Total down-stream Indoor unit capacity	Hig	h press. pipe	Liquid pipe		Low press. pipe		
		mm (in.) O.D.	to P200/M200	15.8	8 (5/8) Brazed	9.52 (3/8) Brazed		19.05 (3/4) Brazed		
		mm (in.) O.D.	P201 to P300	19.05 (3/4) Brazed		9.52 (3/8) Brazed		22.2 (7/8) Brazed		
		mm (in.) O.D.	P301 to P350	19.05 (3/4) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P351 to P400	22.2 (7/8) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P401 to P600	22.2 (7/8) Brazed		15.88 (5/8) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P601 to P650	28.58 (1-1/8) Brazed		15.88 (5/8) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P651 to P800		(1-1/8) Brazed	19.05 (3/4) Brazed		34.93 (1-3/8) Brazed		
		mm (in.) O.D.	P801 to P1000		(1-1/8) Brazed	19.05 (3/4) Brazed		41.28 (1-5/8) Brazed		
		mm (in.) O.D.	P1001 or above		(1-3/8) Brazed	19.05 (3/4) Brazed		41.28 (1-5/8) Brazed		
		mm (in.) O.D.	M201 to M300		8 (5/8) Brazed	9.52 (3/8) Brazed		22.2 (7/8) Brazed		
		mm (in.) O.D.	M301 to M350		8 (5/8) Brazed	12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D. mm (in.) O.D.	M351 to M400 M401 to M450	19.05 (3/4) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed		
		. ,		19.0			4204	20.00 (1-1/0) Diazed		
Field drain pipe size mm (in.)			O.D. 32 (1-1/4) 23 (51)							
Net weight Sound power level	Rated operation	kg (lbs)								
(measured in anechoic room)		dB <a> 59								
	Defrost	dB <a>	71							
Sound pressure level (measured in anechoic room)	Rated operation	dB <a>	40							
*15	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 R410A or 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/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 sound pressure level values were obtained at the location below 1.5m from the unit. 7. The solenoid valve switching sound is 56 dB (sound pressure level) regardless of the unit model. 8. Indoor units P/M100, P/M125, P/M140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.) 9. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the
- Installation Manual

10. This unit is not designed for outside installations.

When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
 Can't use singleness. (MAIN BC CONTROLLER is necessary)
 The ambient relative humidity of the BC controller needs to be kept below 80%.

14.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.

15. The sound pressure level measured by the conventional method in JIS for reference purpose.

1. SPECIFICATIONS

Model	CMB-M108V-KB1									
Number of branch			8							
Power source			1-phase 220-230-240 V							
			50Hz 60Hz							
Power input	Cooling	kW	0.119/0.135/0.151			0.096/0.108/0.119				
	Heating	kW	0.060/0.0	.068/0.076		0.048/0.054/0.060		.054/0.060		
Current input	Cooling	А	0.55/0.	59/0.63				0.47/0.50		
	Heating	A	0.28/0.	30/0.32			0.24/0.25			
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)							
0				-		-	-			
Connectable Main BC controller The maximum number of connectable Sub BC controllers			CMB-M108/1012/1016V-JA1 (-TR), CMB-P1016V-KA1 (-TR) 11							
The maximum connectable capacity										
External dimension H x W x D	mm	P/M350 for each 250 x 596 x 476								
		in.	9-7/8 x 23-1/2 x 18-3/4							
Refrigerant	To outdoor/heat source		Connectable unit capa	acity		ress. pipe		Low press. pipe		
piping		mm (in.) O.D.	-	,						
diameter	To indoor unit		Liquio	d pipe		Gas pipe		s pipe		
			Indoor unit Model 50 or sm	naller 6.3	85 (1/4) Brazed	Indoor unit Mode	l 50 or sn	naller 12.7 (1/2) Brazed		
		mm (in.) O.D.	bigger than 50 9.52 (3/8) Brazed		bigger		er than 50 15.88 (5/8) Brazed			
						(19.05 (3/4), 22.2 (7/8) with		with optional joint pipe used.		
	To other BC controller		Total down-stream Indoor unit capacity	Hig	h press. pipe	Liquid pipe		Low press. pipe		
		mm (in.) O.D.	to P200/M200	15.8	8 (5/8) Brazed	9.52 (3/8) Bra	azed	19.05 (3/4) Brazed		
		mm (in.) O.D.	P201 to P300	19.0	5 (3/4) Brazed	9.52 (3/8) Brazed		22.2 (7/8) Brazed		
		mm (in.) O.D.	P301 to P350	19.05 (3/4) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P351 to P400	22.2 (7/8) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P401 to P600	22.2	2 (7/8) Brazed	15.88 (5/8) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P601 to P650	28.58 (1-1/8) Brazed		15.88 (5/8) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	P651 to P800	28.58 (1-1/8) Brazed		19.05 (3/4) Brazed		34.93 (1-3/8) Brazed		
		mm (in.) O.D.	P801 to P1000	28.58	(1-1/8) Brazed	19.05 (3/4) Brazed		41.28 (1-5/8) Brazed		
		mm (in.) O.D.	P1001 or above	34.93	(1-3/8) Brazed	19.05 (3/4) Brazed		41.28 (1-5/8) Brazed		
		mm (in.) O.D.	M201 to M300		8 (5/8) Brazed	9.52 (3/8) Brazed		22.2 (7/8) Brazed		
		mm (in.) O.D.	M301 to M350		8 (5/8) Brazed	12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	M351 to M400		5 (3/4) Brazed	12.7 (1/2) Brazed		28.58 (1-1/8) Brazed		
		mm (in.) O.D.	M401 to M450	19.0	5 (3/4) Brazed	15.88 (5/8) Br	razed	28.58 (1-1/8) Brazed		
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)							
Net weight										
Sound power level (measured in anechoic room)				59						
	Defrost	dB <a>	71							
Sound pressure level (measured in anechoic room)	Rated operation	dB <a>	40							
*15	Defrost	dB <a>				53				
Accessories	Drain Connection pipe, Wa	asher, Tie	e 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.

The equipment is for R410A or R32 refrigerant.
 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/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 sound pressure level values were obtained at the location below 1.5m from the unit. 7. The solenoid valve switching sound is 56 dB (sound pressure level) regardless of the unit model. 8. Indoor units P/M100, P/M125, P/M140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.) 9. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the

Installation Manual

10. This unit is not designed for outside installations.

The units indicating the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
 Can't use singleness. (MAIN BC CONTROLLER is necessary)
 The ambient relative humidity of the BC controller needs to be kept below 80%.

14.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 15. The sound pressure level measured by the conventional method in JIS for reference purpose