

PRODUCT GUIDE

WCU- SERIES WATER COOLED



Air conditioning and Agricultural Food indirect System

• WCU□□□M-B17B

Standard Specifications 50Hz

R404A / R507A

Model	005M-B17B	008M-B17B	010M-B17B	015M-B17B	020M-B17B	030M-B17B	040M-B17B	050M-B17B
Refrigerant	R404A / R507A							
Power Supply	Main : 380V x 3PH x 50Hz Control : 220V x 1PH x 50Hz							
Cond. Temp	+42 °C							
Evap. Temp	+2 °C							
Suct. Gas Superheat	10 K							
Capacity	14.92 kW	21.90 kW	29.00 kW	40.20 kW	47.70 kW	71.00 kW	103.00 kW	125.20 kW
Refrigeration Ton	2.20 RT	3.27 RT	4.23 RT	5.91 RT	6.85 RT	10.30 RT	15.46 RT	18.48 RT
Electric	Power Consumption	4.53 kW	6.67 kW	8.53 kW	11.93 kW	14.10 kW	21.60 kW	39.60 kW
	Current Consumption	8.25 A	11.75 A	15.05 A	21.10 A	24.20 A	38.10 A	77.80 A
Compressors	Model	4FES-5	4DES-7	4VE-10	4PE-15	4NE-20	4GE-30	6FE-50
	Nominal Output	5 HP	7.5 HP	10 HP	15 HP	20 HP	30 HP	40 HP
	Displacement m ³ /h	18.05	26.84	34.73	48.50	56.25	84.50	126.80
	Oil Quantity lit	2.0	2.0	2.6	2.6	2.6	4.5	4.75
Condenser	Crankcase Heater W	120	120	120	120	120	140	140
	Quantity	56 LPM	82 LPM	108 LPM	149 LPM	177 LPM	265 LPM	386 LPM
	Cooling Water IN/OUT Connections	40 A	40 A	40 A	50 A	50 A	65 A	80 A
Evaporator	Dimension	240 x 850	267 x 850	267 x 850	267 x 1100	318 x 1000	318 x 1400	355 x 1400
	Heat Exchanger	SHELL & TUBE						
	Cooling Water	43 LPM	63 LPM	83 LPM	115 LPM	137 LPM	204 LPM	295 LPM
Refrigerant Control	Cooling Pipe	40 A	40 A	40 A	40 A	50 A	65 A	65 A
	Refrigerant Control	Expansion Valve						
	Components	Oil Separator, Receiver, Filter Drier, Sight Glass, Accumulator, Gauge						
Protection	Protection	DPS, OPS, Internal Overload Protector						
	Suction Line mm	22.22	28.58	28.58	41.28	41.28	53.98	53.98
	Discharge Line mm	15.88	22.22	22.22	28.58	28.58	28.58	34.92
Anchor Dimensions (mm)	Liquid Line) mm	12.7	15.88	15.88	22.22	22.22	22.22	28.58
	Weight (kg)	-	-	-	-	-	-	-

※ Condensing Temp : +42°C ※ Evaporating Temp : +2°C ※ Suct. Gas Superheat : 10K ※ Standard specification condition >> Water Out Temp : +7°C / Water In Temp : +12°C [KSB6275]
 ※ The specifications of this unit may be changed without notice to improve the performance of the product



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Model		050M-BC7C	060M-BC7C	070M-BC7C	080M-BC7C	090M-BC7C	100M-BC7C
Refrigerant		R407C / R134a					
Power Supply		Main : 380V x 3PH x 50Hz Control : 220V x 1PH x 50Hz					
Cond. Temp		+42 °C					
Evap. Temp		+2 °C					
Suct. Gas Superheat		10 K					
Electric	Capacity	108.2 kW	135.8 kW	158.7 kW	181.0 kW	209.0 kW	243.0 kW
	Refrigeration Ton	13.97 RT	17.34 RT	20.10 RT	23.16 RT	26.32 RT	30.10 RT
	Power Consumption	30.6 kW	37.9 kW	44.2 kW	50.2 kW	57.2 kW	66.4 kW
	Current Consumption	53.7 A	66.0 A	76.0 A	85.9 A	94.4 A	109.1 A
Compressors	Model	CSH6553-50	CSH6563-60	CSH7553-70	CSH7563-80	CSH7573-90	CSH7583-100
	Nominal Output	50 HP	60 HP	70 HP	80 HP	90 HP	100 HP
	Displacement m ³ /h	137	170	197	227	258	295
	Oil Quantity lit	9.5	9.5	15	15	15	15
	Operating con	86 A	108 A	128 A	144 A	162 A	170 A
	Locked Rotor	218 / 411 A	269 / 508 A	290 / 485 A	350 / 585 A	423 / 686 A	479 / 790 A
Condenser	Quantity	398 LPM	498 LPM	582 LPM	663 LPM	763 LPM	887 LPM
	Cooling Water IN/OUT Connections	80 A	100 A	100 A	100 A	125 A	125 A
	Dimension	318 x 2,400	318 x 2,400	318 x 2,400	355 x 2,400	355 x 2,400	406 x 2,600
Evaporator	Heat Exchanger	SHELL & TUBE					
	Cooling Water	310 LPM	389 LPM	455 LPM	519 LPM	599 LPM	697 LPM
	Cooling Pipe	65 A	80 A	80 A	100 A	100 A	100 A
Refrigerant Control		Expansion Valve					
Components		Oil Separator, Receiver, Filter Drier, Sight Glass, Accumulator, Gauge					
Protection		DPS, Internal Overload Protector					
Suction Line	mm	53.98	53.98	79.38	79.38	79.38	79.38
Discharge Line	mm	41.28	41.28	53.98	53.98	53.98	53.98
Liquid Line)	mm	28.58	28.58	28.58	34.92	34.92	34.92
Anchor Dimensions (mm)		1,300 x 600	1,300 x 700	1,300 x 800	1,300 x 800	1,300 x 800	1,500 x 600
Weight (kg)		-	-	-	-	-	-

※ Condensing Temp : +42°C ※ Evaporating Temp : +2°C ※ Suct. Gas Superheat : 10K ※ Standard specification condition >> Water Out Temp : +7°C / Water In Temp : +12°C [KSB6275]
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Model		040M-F17B	050M-F17B	060M-F17B	070M-F17B	080M-F17B	090M-F17B	100M-F17B
Refrigerant		R404A / R507A						
Power Supply		Main : 380V x 3PH x 50Hz Control : 220V x 1PH x 50Hz						
Cond. Temp		+42 °C						
Evap. Temp		+2 °C						
Suct. Gas Superheat		10 K						
Electric	Capacity	107.3 kW	136.6 kW	156.6 kW	173.5 kW	216.5 kW	255.1 kW	276.6 kW
	Refrigeration Ton	16.46 RT	20.97 RT	23.65 RT	26.21 RT	32.68 RT	38.53 RT	40.36 RT
	Power Consumption	29.8 kW	37.5 kW	43.2 kW	46.4 kW	56.9 kW	66.5 kW	71.6 kW
	Current Consumption	49.9 A	62.0 A	71.9 A	77.2 A	93.9 A	112.1 A	120.2 A
Compressors	Model	BSR213	BSR216	BSR311S	BSR311	BSR314	BSR316	BSR321
	Nominal Output	40 HP	50 HP	60 HP	70 HP	80 HP	90 HP	100 HP
	Displacement m ³ /h	135	172	194	215	268	316	331
	Oil Quantity lit	11	11	13	13	13	13	17
	Operating con	25% (Starting) 100-75-50% (Standard) or 100-25% (Infinite)						
Condenser	Locked Rotor	SHELL & TUBE						
	Quantity	IN 32 °C OUT 37 °C SF : 0.0002						
	Cooling Water IN/OUT Connections	393 LPM	499 LPM	573 LPM	630 LPM	784 LPM	922 LPM	998 LPM
Evaporator	Dimension	80 A	80 A	100 A	100 A	100 A	125 A	125 A
	Heat Exchanger	318 x 2,400	318 x 2,400	318 x 2,400	318 x 2,400	355 x 2,400	355 x 2,400	406 x 2,600
	Cooling Water	SHELL & TUBE						
	Cooling Pipe	308 LPM	392 LPM	449 LPM	497 LPM	621 LPM	731 LPM	793 LPM
Refrigerant Control		65 A	80 A	80 A	80 A	100 A	100 A	125 A
Components		Expansion Valve						
Protection		DPS, Internal Overload Protector						
Suction Line mm		66.68	66.68	79.38	79.38	79.38	79.38	101.6
Discharge Line mm		41.28	41.28	66.68	66.68	66.68	66.68	79.38
Liquid Line) mm		28.58	28.58	28.58	28.58	34.92	34.92	34.92
Anchor Dimensions (mm)		1,300 x 600	1,300 x 700	1,300 x 800	1,300 x 800	1,300 x 800	1,300 x 800	1,500 x 600
Weight (kg)		-	-	-	-	-	-	-

※ Standard specification conditions >> Cooling Water OUT Temp : +7°C Cooling Water IN Temp : +12°C [KSB6275]

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