

MWCP SERIES

DECK UNIT



R407C

R407H

※optional

R407C/R407H Series [Scroll Type]

Model				MWCP100C	MWCP135C	MWCP165C
Power supply	Main circuit (control circuit)			380V3~/50Hz, 440V3~/60Hz(220V~/50Hz, 220V~/60Hz)		
Color of external packaging				New Light Blue(7.5 BG7/2)And Black		
Dimensions		H x W x D	mm	1650 x 2000 x 1640	1650 x 2300 x 1640	1650 x 2300 x 1640
★1	Cooling capacity	(50/60Hz)	kW	88/100	120/135	142/157
★2	Cooling water flow	(50/60Hz)	L/min	332/360	461/485	551/590
★3	Heating capacity		kW	132	170	200/212
★4	Humidification capacity		kg/h	36	48	60
Water pressure drop		(50/60Hz)	kPa	15.9/19.1	24.2/26.4	41.5/46.4
Compressor	Model			ZR144KTE-TFD-522 x2 ZR72KCE-TFD-522 x1	ZR144KTE-TFD-522 x3 ZR72KCE-TFD-522 x1	ZR144KTE-TFD-522 x4
	Type			Scroll type		
	Speed	(50/60Hz)	r/min	2900/3450		
	Power	(50/60Hz)	kW	8.95 x 2 + 4.48 x 1	8.95 x 3 + 4.48 x 1	8.95 x 4
	Current	(50/60Hz)	A	17.6 x 2 + 9.1 x 1/ 18.1 x 2 + 8.8 x 1	17.6 x 3 + 9.1 x 1/ 18.1 x 3 + 8.8 x 1	17.6 x 4/18.1 x 4
	Start method			Direct start		
Condenser	Model			EF-14-193-00	EE-12-086-00	EE-12-087-00
	Type			Shell and tube type		
	Material	Heat exchanging tube		Copper pipe TP2(GB/T 1527)		
		Pipe		20(GB 8163)		
		Plate		Q235B (GB 3274)		
Qty.			1	1	1	
Evaporator	Model			4ROWx14FPIx38THx1700mm	4ROWx16FPIx48THx1700mm	4ROWx16FPIx48THx1700mm
	Type			Fin heat exchanger		
	Material	Heat exchanging tube		Copper pipe		
		Fin		Anticorrosion aluminum		
Fan	Model			SYQ400K,SHAFT+180-R90°	SYQ450K,SHAFT+180-R90°	SYQ450K,SHAFT+180-R90°
	Type			Centrifugal		
	Air flow	(50/60Hz)	m³/min	175/175	220/220	283/283
	External static pressure	(50/60Hz)	Pa	900/1580	1100/1900	850/1750
	Motor power		kW	7.5	11	15
	Drive			Belt transmission		
Steam coil	Model			Fin heat exchanger		
	Material			Cooper pipe and hydrophilic aluminum		
Steam humidifier				Steam spray type		
Filter				Nylon		
Throttling Method				Thermal expansion valve		
Temperature regulator				Control panel		
Cooling capacity adjustment range		%		100-78-61-39-22-0	100-71-43-14-0 100-71-43-29-0 100-71-57-29-0 100-86-57-29-0	100-75-50-25-0
Protector				Circuit breaker (compressor and motor), overload protector (compressor and motor), pressure relief pipe, anti-phase and phase loss protector, high pressure protector, low pressure protector, built-in temperature protector (compressor and motor), anti-freezing protection, compressor frequent startup-stop protection, and temperature sensor failure protection.		
Thermal insulation material				Class 1 Armaflex (NBR/PVC)		
Piping	Inlet/outlet pipe for cooling water			2-1/2B(65A)	2-1/2B(65A)	3B(80A)
	Upper water outlet			1-1/4B(32A)		
	Lower water outlet			1B(25A)		
Refrigerant	Type			R407C/R407H		
	Factory charge	kg		4.5 x 2 + 2.0 x 1	3.0 x 3 + 1.0 x 1	2.5 x 4
	On-site charging quantity	kg		1.0 x 3	1.5 x 4	2.0 x 4
Refrigerant oil	Type			POE (Copeland Ultra22cc)		
	Charging quantity	L/min		3.253 x 2 + 1.774 x 1	3.253 x 3 + 1.774 x 1	3.253 x 4
Unit static weight			kg			1230
Operating weight			kg			1270
						1550
						1670

★1 The cooling capacity is measured based on the operating conditions in which return air temperature 31°CDB/24°CWB, and the fan motor heat is not included in the cooling capacity.

★2 Cooling water inlet temperature 38°C.

★3 Conditions for heater inlet: inlet air dry-bulb temperature is 10°C, and inlet steam pressure is 0.4 MPa.

★4 The humidification capacity is measured based on the operating conditions in which the pressure of saturated steam is 0.035 MPa.