

Air-Cooled Modular Chiller Technical Manual

R410A/50Hz

Model			RMH-30TN	RMH-65TN	RMH-130TN
Cooling Capacity	kW		30	65	130
	Btu/h		8.5	18.5	37
Heating Capacity	kW		32	69	140
Power supply	V/Ph/Hz		380V/3Ph/50Hz	380V/3Ph/50Hz	380V/3Ph/50Hz
Power supply	Manual switch	100	150	250	250
	Fuse	50	100	200	200
Compressor	Type		Scroll	Scroll	Scroll
	Brand		Copeland	Copeland	Copeland
	Model		ZP144KCE-TFD-522	ZP144KCE-TFD-522	ZP144KCE-TFD-522
	Quantity	Pieces	1	2	4
Power input	Cooling	kW	11.1	22	44
	Cooling rated current	A	19	38	78
	Heating	kW	10.8	21.3	43
	Heating rated current	A	18	37	76
Max. Input consumption	kW		16	28	56
Max. Current	A		29	51	102
Refrigerant	Type		R410A	R410A	R410A
	Refrigerant control		EXV+ capillary throttle	EXV+ capillary throttle	EXV+ capillary throttle
	Weight	kg	7.0	7.042	7.544
Condenser (Air side)	Air side heat-exchanger type		Finned coil pipe type	Finned coil pipe type	Finned coil pipe type
	Quantity of fan motor	Pieces	1	2	4
	Air flow volume	10 ³ m ³ /h	12	24	48
	Fan motor model		YDK550-6S01	YDK550-6S01	YDK550-6S01
	Fan motor rated current	A	4.2	4.2	4.2
	Fan motor input	kW	0.911	0.911	0.911
Evaporator (Water side)	Water side heat-exchanger type		shell and tube	shell and tube	shell and tube
	Water resistance loss	kPa	30	30	40
	Water inlet/outlet pipeline inside normal diameter	mm	DN40	DN100	DN65
	Water flow volume	m ³ /h	5.16	11.18	22.36
	Max. Pressure	MPa	1.1/2.75	1.1/2.75	1.1/2.75
	Water pipe connection type		flange connection	flange connection	flange connection
Dimension	Net(WxHxD)	mm	1160x2090x900	2000x2090x900	2000x2090x1700
	Packing size(WxHxD)	mm	1240x2250x950	2080x2250x950	2080x2250x1740
Weight	Net weight	kg	320	570	1100
	Gross weight	kg	330	600	1120
Connection wiring	Power wiring	mm2xN o	16mm2x3+10mm2x2	16mm2x3+1 0mm2x2	25mm2x3+10mm2x2
	Signal wiring	mm2xN	(0.5~1) mm242	(0.5~1) mm242	(0.5~1) mm242

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Control type			wired controller	wired controller	wired controller
Safety protection device			Power supply protection (lack of phase, phase sequence, frequency, voltage)		
			Chilled water pump overload protection		
			Chiller water shortage protection		
			Water outlet temp. protection		
			Compressor discharge temp. protection		
			Compressor low pressure protection		
			Compressor high pressure protection		
			Sensor malfunction protection.		
			Compressor current input protection		
			Fin temp. (ambient temp.) protection		
			Anti-frozen protection		
Sound level(semi-anechoic)		dB(A)	62	65	68
Operation water temp.	cooling	℃	7-25	7-25	7-25
	heating	℃	30-55	30-55	30-55
Ambient temp	cooling	℃	10-48	10-48	10-48
	heating	℃	-10-21	-10-21	-10-21
Remarks: Specifications are based on the following conditions:					
Cooling : chilled water inlet/outlet: 12 °C / 7°C, and outdoor ambient temp. of 35°C DB.					
Heating : warm water inlet/outlet: 40 °C / 45°C, and outdoor ambient temp. 7C DB/6°CWB.					
Water side fouling factor: 0.086m ² °C /kW.					