

WACH SERIES

Wongso Air Cooled Chiller Hermetic

WONGSO
AIR COND & REFRIGERATION



Chiller is widely used in plastic industry, electronics, plating, chemical industry, ultrasonic wave cooling, printing and others. This kind of chillers can precisely control the temperature requested by the modernized machinery production, and it greatly improved the production efficiency and quality. Chiller is the best choice for the modernized industry and it features easy operation, reasonable design, high quality and various models.

Also we offer a wide range of standard chillers, but standard chillers may not always fit your unique requirements. Our application specialists can suggest units that are customized to meet your unique needs. These units are ideals for both replacement and new construction projects.

***Competent
solution for all
commercial air
conditioning.***

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SPECIFICATION DATA R407C

Model Series		WACH8.1	WACH10.1	WACH12.1	WACH15.1	WACH20.2 (10 X 2)	WACH25.2 (12 X 2)	WACH30.2 (15 X 2)
Performance Unit								
Cooling Capacity (@Tevap +3°C)	TR	4.75	6.67	8.17	10.08	13.33	16.33	20.17
	Btu/h	57,000	80,000	98,000	121,000	160,000	196,000	242,000
	KW	16.70	23.49	28.75	35.46	46.97	57.49	70.92
Total Power Input Chiller	KW	7.25	9.56	11.33	16.11	19.1	22.7	32.2
EER	(Btu/hr) / WP	7.87	8.37	8.65	7.51	8.37	8.65	7.51
No. of Refrigerant Circuit		1		1	1	2	2	2
Control	System	Digital Thermostat, Phase Failure, High-Low Pressure Control						
	Refrigerant	Thermostatic Expansion Valve						
Refrigerant	Type	R407c						
Power Supply	V / Ph / Hz	380 - 420 / 3 / 50						
Compressor		Hermetic Scroll						
No. of Comp.		1	1	1	1	2	2	2
Motor Size	HP	7.5	10	12.5	15	2 x 7.5	2 x 10	2 x 15
Displacement	cm3	120.5	166.6	199	249.9	2 x 166.6	2 x 199	2 x 249.9
Max Operation	A	11.01	15.52	17.71	22.37	2 x 15.52	2 x 17.71	2 x 22.37
LRA	A	98	130	145	175	2 x 130	2 x 145	2 x 175
Total Power Input Pe	KW	5.85	8.16	9.93	12.31	2 x 8.16	2 x 9.93	2 x 12.31
Protection		Internal Overload Protector						
Oil Charge	L	3.25	3.25	3.6	6.2	2 x 3.25	2 x 3.6	2 x 6.2
Oil Type		POE						
Condenser Coil		Inner Grooved Copper Tube on Ripple Edge Aluminium Fins with Galvanize Steel Plate						
Tubes Diameter	inch	3/8						
Fin Spacing	fpi	12						
Fan Condenser		External Rotor Motor (Axial Fan ZIEHL-ABEGG / EBM-PAPST - Germany)						
Fan Speed	rpm	870	870	870	1360	870	870	1360
Blade Diameter	mm	630	630	630	630	630	630	630
No of Fans	qty	1	1	1	1	2	2	2
Total Power Input	KW	1.4	1.4	1.4	3.8	2 x 1.4	2 x 1.4	2 x 3.8
Total Airflow	m3/h	11000	12500	12500	17500	24000	24000	35500
Cooler Unit		Shell & Tubes Heat Exchanger						
No. of Refrigerant Circuit		1	1	1	1	2	2	2
Chilled Water Flow	m3/h	2.6	3.6	4.4	5.5	7.3	8.9	11.0
Pressure Drop	bar	0.29	0.29	0.27	0.41	0.35	0.39	0.46
Inlet/Outlet Temperature	°C	12 / 7	12 / 7	12 / 7	12 / 7	12 / 7	12 / 7	12 / 7
Chilled Water Connection	inch	1 1/2	1 1/2	2	2	2 1/2	2 1/2	2 1/2
Dimension Unit								
Length	mm	1700	1700	1700	1700	1700	1700	1700
Width	mm	900	900	900	900	1200	1200	1500
Height	mm	1650	1650	1650	1650	1700	1700	1700
Approximately Weight	kg	215	245	275	310	385	465	516

Cooling Capacity Based on : Ambient 35°C, 55% RH, Condensing Temperature at 50°C, Evaporating Temperature at 3°C, Chilled Water In 12°C, Out 7°C