

WWCH SERIES

Wongso Water Cooled Chiller Hermetic

WONGSO
AIR COND & REFRIGERATION



WWCH is a water cooled water chiller designed to meet the most demanding requirements of air conditioning applications in all types of buildings. These package meet the high engineering and performance standards.

The units are consists of hermetic scroll compressor as standar, water cooled condenser, shell and tube evaporator, and other accesories. Water cooled condenser is assembled together with the package.

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

MODEL SERIES		WWCH 8.1	WWCH 10.1	WWCH 12.1	WWCH 15.1	WWCH 20.2	WWCH 25.2	WWCH 30.2
PERFORMANCE UNIT								
Cooling Capacity (Tevap 3°C)	TR	5.69	7.84	9.67	11.81	15.69	19.35	23.61
	Btu/h	68,000	94,000	116,000	142,000	188,000	232,000	283,000
	KW	20.00	27.57	34.00	41.49	55.14	68.00	82.98
Total Power Input Chiller	KW	5.00	6.50	7.90	9.80	11.0	15.8	18.8
EER	(Btu/hr) / WP	13.60	14.46	14.68	14.49	17.09	14.68	15.05
No. of Refrigerant Circuit		1	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 10	2 x 12,5	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	5.00	6.50	7.90	9.80	2 x 6,50	2 x 7,90	2 x 9,80
Protection		Internal Overload Protector						
Oil Charge	L	3.50	3.50	4.0	6.5	2 x 3.5	2 x 4	2 x 6.5
Oil Type		POE						
CONDENSER SHELL AND TUBE		HEAT EXCHANGER						
Passes no		2	2	2	2	2	2	2
No of Condenser		1	1	1	1	2	2	2
Refrigrant in/out	inch	1 1/8 - 7/8	1 1/8 - 7/8	1 3/8 - 1 1/8	1 3/8 - 1 1/8	1 1/8 - 7/8 x 2	1 3/8 - 1 1/8 x 2	1 3/8 - 1 1/8 x 2
Water inlet/outlet	°C	28 - 34,7	28 - 31,1	28 - 33,2	28 - 32,6	28 - 33,5	28 - 32,6	28 - 32,6
Water inlet conection	inch	2 x 3/4 - 1	2 x 3/4 - 1	2 - 2	2 - 2	2 - 2 x 2	2 - 2 x 2	2 - 2 x 2
Volume flow	m³/h	3.10	4.27	5.27	6.43	8.55	10.54	12.86
Presure Drop	bar	0.05	0.36	0.06	0.29	0.36	0.06	0.29
COOLER UNIT		SHELL & TUBES HEAT EXCHANGER						
No. of Refrigerant Circuit		1	1	1	1	2	2	2
Chilled Water Flow	m³/h	6.0	6.0	6.0	8.0	10.8	13.5	13.5
Pressure Drop	bar	0.29	0.29	0.27	0.41	0.35	0.4	0.4
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	1400	1400	1560	1700	1600	1950	1950
Width	mm	620	620	620	660	1020	1020	1020
Height	mm	1125	1175	1208	1345	895	928	1019
Approximately Weight	kg	218	247	291	306	385	475	499

WONGSO
AIR COND & REFRIGERATION

WWCH
SERIES


EMERSON

Danfoss

Bitzer

ALFA LOM

Cooling Capacity Based on :
Ambient 35°C, Condensing
Temperature at 40°C,
Evaporating Temperature at 3
°C, Chilled Water In 12 °C, Out
7°C, Condenser water chell
and tube in 28°C.

www.wongsocool.com