







Water Cooled Packaged Unit

2.5kW-45kW 💥 💥 🔀







Application areas

- Offices, Hotels, Hospitals
- Industry
- Administration
- Commercial buildings

Why this choice?

- Saving space
- Galvanised steel construction
- AMWCP are well insulated to minimise condensation and attenuate noise.



Characteristics

Structure

Galvanised steel construction, closed cell foam lined compressor and fan compartments, with an insulted and powder coated drain tray for complete moisture protection, the drain tray is easily removed for inspection and cleaning.

Refrigerant

Each unit is factory charged with refrigerant R410a, which is deemed to have zero ozone depletion potential.

Hermetic compressor

Single phase rotary compressor is used for this type unit, with built-in thermal overload cutout, mounted on rubber vibration dampers.

Centrifugal fan

High efficiency, double inlet centrifugal fan Protection level IP44. Low noise, low speed, big air flow and high ESP.

Water side heat exchanger

High efficiency coaxial heat exchanger, factory insulated with flexible close cell material.

Air filter

An optional filter integrated return air spigot is available on all models. The filter is a washable polypropylene net media. Care should be taken, when locating each unit, that to enough space is provided to enable the one-piece filter to be withdrawn to its full length from either side of the unit.











AMWCP are well insulated to minimise condensation and attenuate noise.

Electric heater(optional)

Electric heater is optional on cooling only versions. Electric elements have spirally wound stainless steel fins to give increased area and low surface temperature. They are totally enclosed within the unit and are supplied with safety cutouts. An optional fan run-on timer for rapid heat dissipation is available.

Electric panel

Consists of: Compressor contactor Compressor protection breaker Microprocessor with function display

All models are equipped with wire controller with the following features

- 7 days programmable timer
- Auto random restart
- Error self diagnostic

Safety protection

High pressure switch Low pressure switch Discharge temperature protection Anti freezing protection











Technical Data

Model	Unit	WCP2.5	WCP3.5	WCP5	WCP7	WCP10	WCP12	
Nominal cooling capacity	kW	2.5	3.5	5.00	7	10	12.2	
Cooling power input	kW 🌖	0.71	0.98	1.4	1.92	2.8	3.32	
Nominal heating capacity	kW	3	4.5	6.4	8.1	12.2	14.5	
Heating power input	kW	0.72	1.07	1.5	2	2.9	3.25	
Power		2/1/2		220V/1F	Ph/50Hz	into		
Minimum wiring specification		2×1.5mm ² +1×1mm ²		2×2.5mm ² +1×1.5mm ²		2×4mm ² +1×2.5mm ²		
Compressor type	03/11	1/1/0		Rotary		, c/	COLL	
Air flow amount	m³/h	490	680	950	1280	1900	2160	
External static pressure	Pa	60	60	120	120	160	200	
Type O	, d	000	~40.	R41	0A	10		
Refrigerant Charge	Kg	0.4	0.6	0.85	1.1	1.7	1.9	
Condenser Type	**************************************	Tube in tube coaxial heat exchanger						
Туре	14		High e	fficiency low r	ow noise centrifugal fan			
Fan Power	~ ·	20	COLL	220V/1F				
Evaporator Type	00//	High efficiency copper tubes aluminum fins heat exchanger						
Water flow amount	m³/h	0.4	0.6	0.9	1.2	1.7	2.1	
Water pressure drop	Кра	8	8	100	14	16	o 20	
Diameter of water in/out pipe	mm	, c/,		DN20		@Milli		
Diameter of condensing pipe	mm	COL		DN	25	in the same of the		
L OW.	mm	910	1260	1310	1210	1320	1410	
Dimension W	mm	660	660	710	790	790	⁷ 790	
H W	mm	350	350	450	450	450	450	
Weight	kg	70	75	90	100	130	135	
Noise level	dB(A)	54	54	57	57	60	60	
	70	- (1)	A9					

- 1. Norminal cooling capacity test condition: Water side water inlet/outlet 30°C/35°C, Ambient temperature DB 27 °C, WB 19 °C

- Norminal cooling capacity test condition: Water side water inlet 20°C, Ambient temperature DB 20 °C, WB 15 °C.
 Noise level measured in the noise lab with background noise of 25 dB(A), at a distance of 1 m.
 As our continuous products improvement, Amrta reserves the right to change specifications and design without notice.









Model		Unit	WCP14	WCP18	WCP23	WCP30	WCP35	WCP45		
Nominal co	oling capacity	kW	14.4	18	23	30	34	46		
Cooling pov	ver input	kW 6	4.06	5.1	6.18	7.8	8.26	11.6		
Nominal heating capacity		kW	17.3	22.6	25.9	30	35.4	49		
Heating power input		kW	4	5.6	6.86	8.6	9.1	12.84		
Power			220V/1Ph/50Hz	380V/3Ph/50Hz						
Minimum wiring specification		, c	2×6mm ² +1×4mm ²		3×2.5mm ² +1×1.5mm ²		3×4mm ² +1×2.5mm ²			
Compressor	type	03/0	Rotary		. ^	Scroll	, c/s	~ CO///		
Air flow am	ount	m³/h	2500	3200	4000	5200	6200	8000		
External sta	tic pressure	Pa	200	200	250	250	250	250		
D (: 0)	Type		-0/1.	R410A			10,			
Refrigerant	Charge	Kg	2.2	3 (10)	4	4.8	6	800		
Condenser	Туре	.00	into	Tube in	tube coaxial h	eat exchang	jer	COLL		
Туре		High efficiency low noise centrifugal fan								
Fan	Power		ic _L co _L	220V/1Ph/5	500°					
Evaporator	Type	, a c	High efficiency copper tubes aluminum fins heat exchanger							
Water flow	amount	m³/h	2.4	3.1	4	5.2	5.8	7.9		
Water press	ure drop	Кра	20	23	26	30	33	33		
Diameter of	water in/out pipe	mm	DN20		COLL	DN40	agrill.	200		
Diameter of	condensing pipe	mm	COLL	W. C.	DN25	ill.	in ^{to ©}	100		
V.C/J	L com	mm	1680	1680	2170	1975	2230	2430		
Dimension	W	mm	930	930	1030	1030	1130	1130		
	H (nit)	mm	450	600	500	650	650	900		
Weight		kg	140	155 🕥	170	200	200	245		
Noise level	V [.] C _U	dB(A)	63	66	66	68	68	69		

- 1. Norminal cooling capacity test condition: Water side water inlet/outlet 30°C/35°C, Ambient temperature DB 27 °C, WB 19 °C.

 2. Norminal heating capacity test condition: Water side water inlet 20°C, Ambient temperature DB 20 °C, WB 15 °C.

- 3. Noise level measured in the noise lab with background noise of 25 dB(A), at a distance of 1 m.
 4. As our continuous products improvement, Amrta reserves the right to change specifications and design without notice

