









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 Care should be taken, when locating each unit, that to enough space is provided to enable the one-piece filter to be withdrawn to its full length from either side of the unit.











Insulation

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	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 k		0.72	1.07	1.5	2	2.9	3.25		
Power	220V/1Ph/50Hz								
Minimum wiring specification		2×1.5 mm ² $+1\times1$ mm ²		$2 \times 2.5 \text{mm}^2 + 1 \times 1.5 \text{mm}^2$		2×4mm ² +1×2.5mm ²			
Compressor type		Rotary							
Air flow amount	m³/h	490	680	950	1280	1900	2160		
External static pressure	Pa	60	60	120	120	160	200		
Refrigerant Type		R410A							
Charge	Kg	0.4	0.6	0.85	1.1	1.7	1.9		
Condenser Type		Tube in tube coaxial heat exchanger							
Type Fan		High efficiency low noise centrifugal fan							
Power		220V/1Ph/50Hz							
Evaporator Type High efficiency copper tubes aluminum fins heat ex						heat exchang	ger		
Water flow amount	m³/h	0.4	0.6	0.9	1.2	1.7	2.1		
Water pressure drop	Kpa	8	8	10	14	16	20		
Diameter of water in/out pipe	eter of water in/out pipe mm DN20								
Diameter of condensing pipe	r of condensing pipe mm DN25								
L	mm	910	1260	1310	1210	1320	1410		
Dimension W	mm	660	660	710	790	790	790		
Н	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		

Note

- 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.









Technical Data

Model		Unit	WCP14	WCP18	WCP23	WCP30	WCP35	WCP45		
Nominal cooling capacity		kW	14.4	18	23	30	34	46		
Cooling po	wer input	kW	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			2×6 mm ² + 1×4 mm ²		3×2.5mm ² -	+1×1.5mm ²	3×4mm ² +1×2.5mm ²			
Compresso	r type		Rotary			Scroll				
Air flow an	ount	m³/h	2500	3200	4000	5200	6200	8000		
External st	atic pressure	Pa	200	200	250	250	250	250		
Refrigerant	Туре		R410A							
	Charge	Kg	2.2	3	4	4.8	6	8		
Condenser	Condenser Type Tube in tube coaxial heat exchanger									
Fan	Туре		High efficiency low noise centrifugal fan							
	Power		220V/1Ph/50Hz							
Evaporator Type High ef				fficiency copper tubes aluminum fins heat exchanger						
Water flow	amount	m³/h	2.4	3.1	4	5.2	5.8	7.9		
Water pres	sure drop	Кра	20	23	26	30	33	33		
Diameter o	f water in/out pipe	mm	DN20			DN40				
Diameter o	neter of condensing pipe mm DN25									
Dimension	L	mm	1680	1680	2170	1975	2230	2430		
	W	mm	930	930	1030	1030	1130	1130		
	Н	mm	450	600	500	650	650	900		
Weight		kg	140	155	170	200	200	245		
Noise level		dB(A)	63	66	66	68	68	69		

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