

WELTEM CO., LTD

Made by Weltem in Korea



WELTER

Contents

- I. Specifications
- . Portable Air-conditioner
 - I. Application
 - I. Air Flow
 - I. Cooling Cycle
- II. Self-Diagnostic function
- . Water cooled Split portable AC
 - I. Why WELTEM?



Specifications



	WPC-3000	WPC-4000	WPC-5000
Cooling capacity	3.4kW 12,000BTU 1.0Ton	4.7kW 16,000BTU 1.3Ton	6.1kW 21,000BTU 1.7Ton
Weight	60Kg	86Kg	88Kg
Coolant	R-410A		
Air Filter	Aluminum Aluminum Vinyl Chloride		
Power Plug	Plug Type		
Rated Voltage	1ø 208~230V 50Hz / 60Hz		
Dimension (W*D*H)	440 * 500 * 965 mm	523 * 671 * 1,042 mm	523 * 671 * 1,042 mm
Rated current	7A	7.5A	9.5A
Condensate tank	12ℓ		
Power consumption	1.4 kW	1.7 kW	2.1 kW
Cooling Area	33 m²	40 m²	50 m²



WPC-9000

Specifications

	WPC-6000	WPC-9000	WPC-15000	WPC-23000
Cooling capacity	7.3kW 25,000BTU 2.1Ton	9.4kW 32,000BTU 2.7Ton	17.6kW 60,000BTU 5Ton	10.2kW 36,800BTU 3.1Ton
Weight	92Kg	100Kg	380Kg	380Kg
Coolant	R-410A			
Air Filter	Aluminum Vinyl Chloride			
Power Plug	Plug Type	Hard wired		
Rated Voltage	1ø 208~230V 50Hz / 60Hz		3ø 380V 50Hz / 60Hz	
Dimension (W*D*H)	560 * 730 * 1,300 mm	660 * 885 * 1,380 mm	735 * 1,310 * 1,520 mm	560 * 700 * 1,350 mm
Rated current	13A	16.5A	14A	17.5A
Condensate tank	12ℓ			
Power consumption	2.9 kW	3.3 kW	7.4 kW	11 kW
Cooling Area	56 m²	100 m²	170 m²	210 m²



Main Function **Spot Cool** ■ ICEN, portable air spot cooling for large **Room Cool** areas where cooling of the entire area is not **■ This Air Conditioner** feasible. can also be used in smaller areas, with the room cooling controlled feature.



Advantage

WELTEM Portable Air Conditioner Certified units - Electrically sound and stable ac units - listed to cUL, CE, CCC, ISO9001/14001, etc.

Efficient cooling - These air conditioners need no special electrical requirements since all are single phase

Quick cooling - Sets up in minutes and cools a wide variety of environments

Self Diagnostic function – The alarm light is activated if abnormal operation occurs, and a code is displayed on the control panel.

Efficient cooling

Self Diagnostic function

Quick cooling

Good for Rental market **Certified units**





Freeze protection control turns the compressor off to prevent damage to AC when the coil inside ac unit freezes.

Minimum maintenance required clear instructions are provided in owners manual.

Easy access condensate tank located in the side of air Conditioner uses auto-shut-off when tank is full, and easy access panel for emptying tank is appreciated

WELTEM Portable Air Conditioner Easy to move

these air conditioners have 4 heavy-duty,4-inch sturdy casters that will last

Easy to change and washable filters

2 filters for return air are easily accessible and dishwasher safe

Durable

completely self-contained air conditioner housing within an insulated cabinet of galvanized steel



Features

Two-level fan speeds 2-speed control accessible using panel or remote control

Using environmentally-friendly R410a refrigerant gas to help protect the environment and the ozone layer.

High Pressure Switch a pressure switch is used to shut down the system if high pressure is detected.

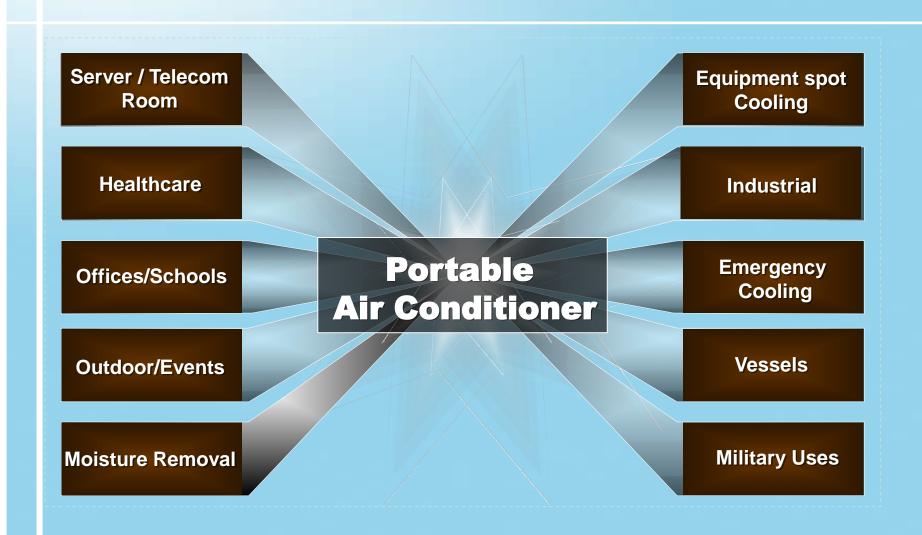
WELTEM Portable Air Conditioner Compressor Protection Device Compressor operates in 2 minutes after restarting the unit to protect the compressor.

Choice of continuous operation or automatic timer function in which the timer will shut off the unit after the designated period of time

Useful accessories included with air conditioners
Top Exhaust Duct Adaptor,
Ambient Air Adaptor
Cold Air Flange, Cold Air
Nozzle Kit, Extension Air Duct



Application



Application















Air Flow

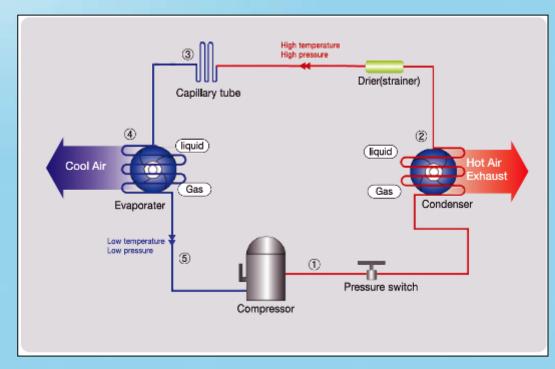




Cooling cycle

Operation Principle

- 1 Pressure of the COOLANT is raised in the Compressor then sent to the Condenser, When the pressure of the COOLANT is higher than the level allowed, PRESSURE SWITCH work and COMPRESSOR stop until pressure is lowered to the level allowed.
- Exhaust the hot air using the fan in the CONDENSER, COOLANT becomes high temperature / high pressure liquid.
- The liquid flows to the CAPILLARY TUBE and pressure is lowered to the level which it can be evaporated easily.
- The liquid flows to the EVAPORATOR and gain the heat from the ambient warm air which was provided by fan from outside of the unit, The liquid become gas and the cooled air blows to the outside of the unit.
- **5** The gas in the EVAPORATOR flows to the COMPRESSOR.
- 6 Repeat from 1 to 5 cycle.



<Cooling Cycle>



Self-Diagnostic function

The alarm light is activated if abnormal operation occurs, and a code is displayed on the control panel. The compressor and condenser fan motor will stop operation. The evaporator fan continues to run for a further three minutes. If the fault is rectified within 3 minutes, the unit resumes operation.

If the fault persists for more than 3 minutes, the evaporator fan also stops.

The fault must be rectified before the unit can resume normal

Alarm Display	Problem	Cause	Corrective action
	Frost Prevention Sensor & Abnormal temperature sensor value	a. Indoor heat exchanger temperature too lowb. TH3 temperature sensor has a loose or broken connection	a. Do not use the air conditioner in ambient temperature is lower than 18°Cb. Contact service centre
P5	Refrigerant high pressure switch	a. Blocked air filter b. Blocked / kinked exhaust duct c. Ambient temperature is too high	 a. Clean air filter b. Ensure exhaust duct is not blocked c. Do not use the air conditioner in ambient temperature higher than 45°C Contact service centre if problem persists
5. {	Abnormal temperature sensor value	TH1 Outlet temperature sensor has a loose or broken connection.	Contact service centre
5.2	Abnormal temperature sensor value	TH2 Inlet temperature sensor has a loose or broken connection.	Contact service centre
	Compressor overloaded	a. Ambient temperature is too highb. Unstable voltage supplyc. Defective compressor	 a. Do not use the air conditioner in ambient temperature higher than 45°C b. Call service centre if problem persists
FE	Condensate water level & Condensate tank alarm	a. Condensate tank is full b. Condensate tank is not positioned properly	a. Empty the water tank b. After installation of the water tank, press the SPOT/COOL or ROOM/COOL button to resume operation



Water cooled Split portable AC



Specification	WSC-4000	WSC-6000	
Cooling capacity	16,000 BTU / 4.7kW	22,000 BTU / 6.5kW	
Refrigerant	R-410A		
Electrical supply	220V, 1 phase, 50/60Hz		
Controller	Electronic Type		
Rated current	10A	11.9A	
Power consumed	2.2kW	2.6kW	
Air flow (high/low)	840/730 m³/h	1320/900 m³/h	
Operating range (room)	18 ~ 45℃		
Height (Indoor)	705mm		
Width (Indoor)	865mm		
Depth (Indoor)	350mm		
Weight (Indoor)	91kg	95kg	
Height (Outdoor)	565mm	665mm	
Width (Outdoor)	405mm	455mm	
Depth (Outdoor)	275mm	275mm	
Weight (Outdoor)	20kg	25kg	



Water cooled Split portable AC

Features

- Very easy to install
- No need for hot air duct
- No need to supply water continuously
- Quiet in operation
- Durable metal construction
- •Install heat exchanger up to 30 meters away
- Self diagnostic functions
- Automatic thermostat control
- •Available in high temperature up to 52°C
- Automatic timer
- Useful for rental

Typical Use

- Computer server rooms
- Tents
- Offices
- Events Marquees
- Ware houses
- Military uses
- Commercial Kitchens
- Hospitals
- Schools
- Reception areas



Why WELTEM?



