Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described.

Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and / or property damage! Retain instructions for future reference.

WELTEM CENT Portable Air Conditioners

Description

Weltem Portable Air Conditioners feature spot cooling for large areas where cooling of the entire area is not practical. A dedicated spot cooling thermostat controls the unit in this application. These air conditioners can also be used in smaller areas for room cooling. A control panel provides ease of use and contains a self-diagnostic function and display, showing operating modes, room and set temperatures, and faults. If an abnormal operation occurs, a visual display of the fault is shown. Caster wheels are included for easy portability. Suitable applications include: a factory or work place, industrial kitchen, computer room, emergency cooling, etc.



WPC-23000 Figure 1

Unpacking

After unpacking the unit, carefully inspect unit for any damage that may have occurred during transit. Check for any loose, missing, or damaged parts.

Specifications

Model No.	Power Supply Ph-V-Hz	Cooling Capacity Btu/h	Power Consump- tion Watts	EER Btu/ Wh	Rated Cur- rent Amps
WPC-23000	3 phases, 380V, 50Hz	83,000	13,800	9.2	21
Model No.	Nema Plug	Power Cord Gauge AWG	Power Cord Length (m)		nsions I - in. (mm)
WPC-23000	Terminal type	10	3		1.6 x 59.8 10 x 1,520)
Model No.	Weight (Net / Gross) Lbs(kg)	No. of Cool Air Outlets Pcs	Condensate tank Gallons(Liters)		emperature °F(°C)
WPC-23000	761/793 (345/360)	3	Auto Pump Included	69~113	8(21~45)



Specifications (Continued)

Model No.	Setting temperature (Room cool mode) °F(°C)		Setting temperature (Spot cool mode) °F(°C)		
WPC-23000	64~86 (18~30)		32~86 (0~30)		
Model No.	Application Area (Room cool mode) ft²(m²)		Refrigerant Type / oz(g)	Design Pressure - Hi/ Low Psig	
WPC-23000	2,260 (210)		R-410A / 123(3,500)	450 / 250	
Model No.	Indoor Air Flow CFM(CMM)	Wheels pcs / diameter	Hot Air Duct Di- ameter In.(mm)	Maximum Exhaust Duct Lenght ft(m)	
WPC-23000	2550 (73)	4 / 127mm	20 (500)	100 (30)	
Safety Devices Full dr ruptio		Full drain tank	sor overload protector, Anti-freezing thermister, tank switch, Automatic restart (Power inter- Compressor time delay program, High pressure		
Features		Temperature control, Self-diagnostic function, Two speed fan, Optional drain pump kit, Washable filters, °F(°C) display, Off-timer			

General Safety Information

Please read this manual carefully for instructions on correct installation and usage. Please read all safeguards.

- 1. Transport and store the unit in an upright position only. Leave unit in an upright position for at least 3 hours before first use.
- 2. Always place the unit on an even, level surface.
- 3. Ensure the unit is connected to a grounded power supply of the correct rating / capacity.
- 4. The unit will cool when the room temperature is between $18^{\circ}C(64.4^{\circ}F) \sim 45^{\circ}C(113^{\circ}F)$ depending on the thermostat setting.
- 5. DO NOT use this unit for functions other than those described in this instruction manual.
- 6. DO NOT tilt the unit.
- 7. DO NOT cover or obstruct the unit's inlet and outlet grilles.
- 8. DO NOT use the unit in areas where it will be exposed to rain or water.
- 9. NEVER unplug the unit while it is operating.



A WARNING

DO NOT use the unit in wet environments, such as a laundry room, to avoid the risk of electrical shock.

- 10. DO NOT place any foreign objects on the unit.
- 11. DO NOT operate the unit with wet or damp hands.
- 12. DO NOT allow chemical substances to come into contact with the unit.
- 13. DO NOT operate the unit in the presence of flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

A WARNING DO NOT operate the unit in explosive or flammable environments.

- 14. DO NOT use the plug to start and to stop the unit. Always use the control panel to start and to stop the unit.
- 15. Always turn off the unit when it is not in use and unplug the power plug from the electrical outlet.
- 16. Always turn the unit off and unplug the main power plug from the electrical outlet before cleaning, moving or performing maintenance.
- 17. AVOID the use of adapter plugs or extension cords. If it is necessary to use an extension cord or an adapter plug to operate the unit, ensure that they are correctly rated for the application. Consult a local gualified lectrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of 22A.
- 18. DO NOT unplug the unit by pulling on the electrical cord. Keep electrical cord away from heat sources and always completely unroll the cord to avoid overheating. If the power cord becomes damaged, a qualified service agent, qualified electrician, or similarly qualified person must replace it, in order to avoid a hazard or shock.

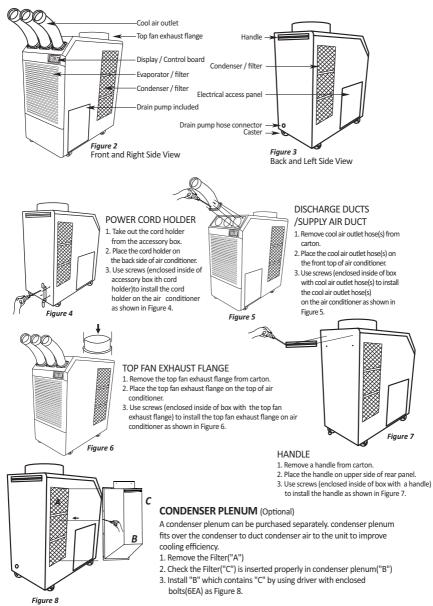
A WARNING DO NOT operate a unit with a damaged power cord.

- 19. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.
- 20. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the units output performance and efficiency will decline and energy consumption will increase.
- 21. DO NOT operate the unit with a damaged power cord or plug, after it malfunctions, has been dropped or damaged.
- 22. Only use in the upright position on an even, flat surface. Unit must be positioned at least 24 inches (60 cm) from the nearest object in any direction.
- 23. Stop operation immediately if abnormal noise or odor is noticed. Contact a local service center.
- 24. Appliance is not to used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- 25. Children being supervised not to play with appliance.
- 26. That the appliance shall be installed in accordance with national wiring regulations.
- 27. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly gualified persons in order to avoid a hazard.

SAVE THESE INSTRUCTIONS



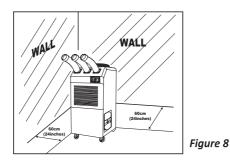
Assembly COMPONENT PARTS





Installation

Only operate in the upright position on a flat level surface, at least 60cm(24inches) from any objects. (See Figure 8)



WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

A WARNING	Do not use the unit in explosive environments or in areas where flammable gas leakage may occur.
A WARNING	Do not use the unit in areas where it will be exposed to rain or water.
A WARNING	Do not use the unit in a corrosive atmosphere.
A WARNING	Do not use the unit above 18°C(64°F) ~ 45°C(113°F).
A WARNING	Do not install the unit on uneven or sloping surface. The unit may roll or topple over even if the casters are set to the locked position.

MOVING THE UNIT

Unlock the casters and push the unit using the side handles to a flat, level surface and set the caster brakes to the locked position.

PLUGGING IN THE UNIT

Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.

Check the power cord, plug and prongs for damage or excess play.

If any damage or excess play is found, contact a qualified repair technician or a qualified electrician to perform replacement or repair of the power cord, plug or prongs.



If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.



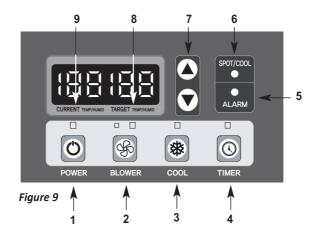
Do not connect / disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.

NOTE: Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign material.



Owner's Manual

Operation CONTROL PANEL



- 1. **POWER BUTTON**: Activates unit when POWER BUTTON is pressed. If POWER BUTTON is pressed during operation, unit stops.
- 2. BLOWER BUTTON: Indicates fan speed. (Not available for 3 phase model)
- 3. **COOL BUTTON**: Activates compressor and begins producing cool air in 5 seconds after button is pressed.
- 4. TIMER BUTTON: Enters to Timer Setting Mode by pressing TIMER BUTTON for 1 seconds. Two digits on CURRENT TEMP indicate hour(s) and two digits on TARGET TEMP indicate minutes. Set desired off-time by pressing SET TEMP BUTTONS.
- ALARM: Alarm indicator lights (blinks) and indicates abnormal system operation. If Alarm occurs, compressor stops. System operation stops when Alarm light is activated (blinks) longer than 3 minutes.
- 6. **SPOT/COOL**: Lights (blinks) when unit is operated on SPOT/COOL mode.
- 7. **SET TEMP BUTTONS**: Change target temperature/data value by +/-1. Press the SET TEMP BUTTONS to set temperature. Upper button is to heighten temperature and Lower button is to lower temperture.
- TARGET TEMP: Displays unit set temperature for ROOM/COOL mode only. Set TARGET TEMP 0 ℃ or 32°F on SPOT/COOL mode.

Owner's Manual

9. **CURRENT TEMP**: Displays ambient temperature (In ROOM/COOL mode only) / Displays outlet (cool air) temperature during normal operations (In SPOT/COOL mode only)

In order to change $^{\circ}C$ to $^{\circ}F$, press BLOWER and COOL buttons together for 2 seconds. F will blink 2 times and Figure will change to $^{\circ}F$. ALARM codes blink and are displayed when abnormal operation occurs.

 $\mbox{sPOT/COOL mode} \rightarrow \mbox{ROOM/COOL mode}$: Enter to ROOM/COOL mode if COOL BUTTON and TIMER BUTTON are pressed together for 1 seconds.

ROOM/COOL mode \rightarrow **SPOT/COOL mode** : Enter to SPOT/COOL mode if COOL BUTTON is pressed for 1 seconds.

AUTO RESTART: If the unit goes off due to an electrical interruption, the unit will automatically restart when the power resumes.



Maintenance

FILTER CLEANING (See Figures 10 and 11)

There are three filters in the unit. The evaporator filter is located at the front of the unit. The condenser filters are located at the side of the unit.

- 1. loosen up 2 bolts on the front filter guard.
- 2. Slide filter up and use a vacuum cleaner to remove the dust from the filter.
- 3. If the filter is heavily covered with dust and dirt, warm water and mild soap or neutral detergent may be used to wash the filter. Do not use any other chemicals to clean filter, as they will likely damage the filter.
- 4. Dry the filter in a shaded area before replacing it. Do not operate the unit without the filter installed and the filter guard in the closed position.
- 5. Replace the clean filter and close the filter guard.
- 6. To clean the condenser filters, lift up on the side filters from the middle bar slightly and then angle the filters outwards from the bottom and remove.
- 7. Use the same cleaning procedure as above (3 5).
- 8. To replace the condenser filter, place the top of the filter in the guide and slide the filter up until the bottom of the filter clears the frame. Then push the bottom of filter into the guide and let filter gently fall inside the guide.

NOTE: For effective cooling clean the filter at least every 2 weeks.

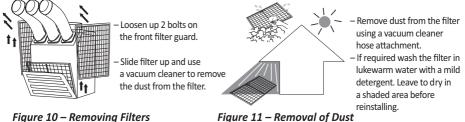


Figure 10 – Removing Filters

A WARNING

A WARNING

Do not operate without the filter fitted.

Do not operate the unit with a damaged cord or plug, after the unit malfunctions, or if the unit has been dropped or damaged.

- For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.
- Also, attach your purchase receipt as proof of purchase to this instruction manual for future reference.
- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.



Maintenance (Continued)

- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

Product	Portable Air Conditioner
Model No.	
Date of Purchase	
Place of Purchase	
Serial No.	
Period of Warranty	

Customer: Please read and keep this manual for future reference and keep sales receipt as proof of purchase.

SELF-DIAGNOSTIC CODES (See Table 1)

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 operating. The evaporator fan will continue to run for 3 minutes. If the fault is rectified within 3 minutes, the unit will resume 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 operation.



SELF-DIAGNOSTIC ALARM CODES				
Alarm Display	Problem	Cause	Corrective Action	
	 Compressor overload Evaporator motor overload (for wpc-23000) Condenser motor overload (for wpc-23000) 	 Ambient temperature is too high Unstable voltage supply Defective compressor Abnormal operation of evaporator motor (for wpc-23000) Abnormal operation of condenser motor (for wpc-23000) 	 Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) Contact a qualified service agent Replace compressor Contact a qualified service agent 	
	Drain pump alarm	Drain pump defective or improper hose connection (including kink or blockage)	 Check the hose connection and hose Replace drain pump 	
HP	High pressure	 Improper air circulation High ambient temperature 	 Clean the air filter Ensure exhaust duct is not blocked or kinked Ambient temperature must be under 45°C(113°F) 	
	Abnormal temperature sensor value	TH1(Outlet) temperature sensor has a loose or broken connection	Contact a qualified service agent	
	Abnormal temperature sensor value	TH2(Inlet) temperature sensor has a loose or broken connection	Contact a qualified service agent	
	Abnormal temperature sensor value	TH3(Evaporator coil) temperature sensor has a loose or broken connection	Contact a qualified service agent	
	Frost on heat exchanger	 Indoor heat exchanger temperature too low 	 Do not use the air conditioner if ambient temperature is lower than 18°C (64°F) Contact a qualified service agent 	

Table 1- Alarm Codes



Wiring Diagram

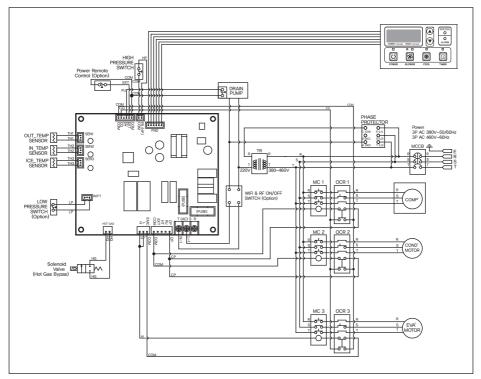


Figure 12 - Circuit Wiring Diagram (WPC-23000)



Troubleshooting chart

Symptom	Possible Cause(s)	Corrective Action	
Water leakage	High water level in condensate tank	 Remove blockage from drain hose Remove any object stuck under- neath of the black panel under the water tank 	
	1. Check the power supply to verify that power is available to the unit	1. Reset the circuit breaker and restart the unit	
The unit doesn't work	2. Verify that the power cord is connected	2. Connect power cord	
	1. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned	1. Clean the filter	
No cold air flows from the	 Compressor will not work if the unit is turned off and on quickly. 	 Wait 2 minutes after unit is turned off before turning the unit back on. 	
cold air outlet	3. The ambient air tem- perature may be too high	3. The temperature of the com- pressor can be higher when the ambient temperature is too high. The compressor will not work unless the ambient air temperature is within the acceptable operating range of the unit	
Water flow can be heard after compressor shuts off	No cause	Common to hear coolant flowing after unit shuts off	





WPC-23000



Shipping list

- (1) PORTABLE AIR CONDIRIONER
- (1) Owner's Manual
- (1) POWER CORD HOLDER
- (3) DISCHARGE / SUPPLY AIR DUCTS
- (1) EXHAUST FLANGE
- (1) Handle



LIMITED WARRANTY

WELTEM ONE-YEAR LIMITED WARRANTY. WELTEM PORTABLE AIR CONDITIONERS, MODELS COVERED IN THIS MANUAL, ARE WARRANTED BY WELTEM TO THE ORIGINAL USER AGAINST DEFECTS IN WORK MANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETER-MINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LO-CATION, WELTEM DESIGNATES, SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED BY WELTEM OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE "PROMPT DISPOSITION" BELOW. THIS LIMITED WARRANTY GIVE PURCHASERS SPECIFIC LEGAL RIGHTS WHICH VARY FROM JURISDICT-ION TO JURISDICTION.

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Certain aspects of disclaimers are not applicable to consumer products; e.g., (a) some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some jurisdictions do not allow a limitation on how long an implied warranty lasts, consequently the above limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, any implied warranties of implied merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

Prompt Disposition. A good faith effort will be made for prompt correction or other adjustment with the respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Weltem at the address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

Manufactured in Weltem co., Ltd., 154, Jayumuyeok 3-gil, Masanhoewon-gu, Changwon-City, Gyeongsangnam-do, 51340 Korea www.weltem.com Printed in December, 2019