



WPC-36000

AIR CONDITIONER

(FOR INDOOR & OUTDOOR)



OWNER'S MANUAL

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

DESCRIPTION

WELTEM Portable Air Conditioners are specialized for "SPOT COOLING" where central cooling is impractical.

WELTEM air conditioners can also be used in enclosed areas just like conventional air conditioners. Simple digital controller and self-diagnostic functions allow users to easily operate the unit. Built-in Caster wheels enable users to move the unit without any hassle. The unit can be installed in 5 minutes and does not require any extra materials or certified technician for installation.

WELTEM Portable Air Conditioner, anywhere, everywhere. Plug-and-Go!

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 Consumption Watts	Rated Current Amps
WPC-36000	3Phases 380V - 50Hz	118,400	14.5kW	22.1A
Model No.	Weight (Net / Gross) Lbs(kg)	Ambient temperature range °F(°C)	Dimensions W x D x H - in. (mm)	
WPC-36000	1168/1245lbs. (530/565kg)	64~113(18~45)	34.3 x 75 x 71 (870 x 1904 x 1801)	
Model No.	Indoor Air Flow CFM		Refrigerant Type / oz(g) WPC-36000	
WPC-36000	4000		R-410A / 278.7(7900)	
Safety Devices		Compressor overload protector, Anti-freezing thermister, Automatic restart (Power interruption), Compressor time delay program, High pressure switch, Hot gas bypass		
Features		Temperature control, Self-diagnostic function, Optional drain pump kit, Washable filters, °C display, Off-timer		
PUMP-DOWN		The unit is integrated with "PUMP-DOWN" function. PUMP-DOWN function keeps compressor running for certain time to protect compressor and other crucial parts before the unit or compressor is turned off. PUMP-DOWN function activates, - When the unit reaches target temperature - In between cooling mode to heating mode - In between cooling mode to Fan only operation The unit operates in this particular way to protect the internal parts. During PUMP-DOWN cycle, the compressor and fans will be keep operating even though user turns off the unit or turns off the compressor. Please do not forcefully switch off the unit or compressor during PUMP-DOWN cycle. The unit or compressor will turn off itself when it is safe for the unit to do so.		

GENERAL SAFETY INFORMATION

Please read this manual carefully for 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 operate between 18°C (64°F) ~ 45°C(113°F) depending on the temperature setting.
5. DO NOT use this unit for other purposes that is not described in this instruction manual.
6. DO NOT tilt the unit.
7. NEVER unplug the unit under operation.

**Warning**

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

8. DO NOT place any foreign objects on the unit.
9. DO NOT operate the unit with wet or damp hands.
10. DO NOT allow chemical substances to come into contact with the unit.
11. DO NOT operate the unit near flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

**Warning**

DO NOT operate the unit in explosive or flammable environments.

13. DO NOT unplug to turn off the unit. Always use the power switch to start and to stop the unit.
14. Always turn off the unit and unplug it before cleaning, moving or performing maintenance.
15. AVOID using adapter plugs or extension cords. If extension cord or an adapter plug is needed, ensure they are correctly rated for the application. Consult a local qualified electrician for proper setup. Any extension cord used with this device must be rated for a minimum of 44A.(380V)
16. 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 is damaged, contact a qualified service agent, qualified electrician, or similarly qualified person for replacement.

**Warning**

DO NOT operate a unit with a damaged power cord.

17. 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.
18. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the units output performance and efficiency will decrease.
19. DO NOT operate the unit with a damaged power cord or plug,
20. Only use in the upright position on an even, flat surface. There must not be any objects or walls within 24 inches (60 cm) from the unit.

21. Halt the unit immediately if abnormal noise or odor is detected. Contact your local service center or manufacturer.
22. Appliance is not to be operated 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.
23. Children must be supervised not to play with appliance.
24. The unit must be installed in accordance with national wiring regulations.
25. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

ASSEMBLY (WPC-36000)

COMPONENT PARTS

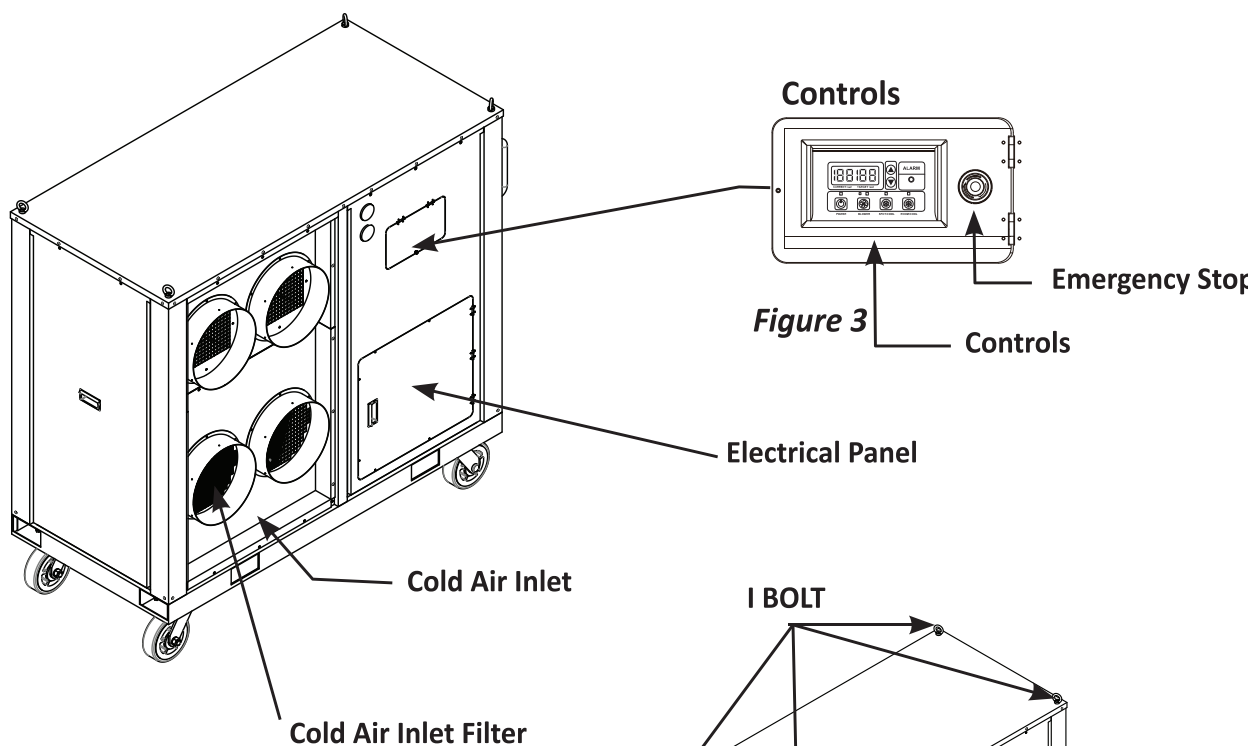


Figure 2
Front and Right Side View

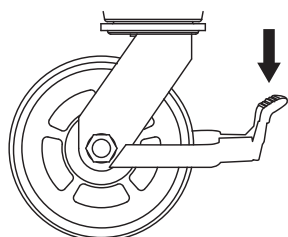
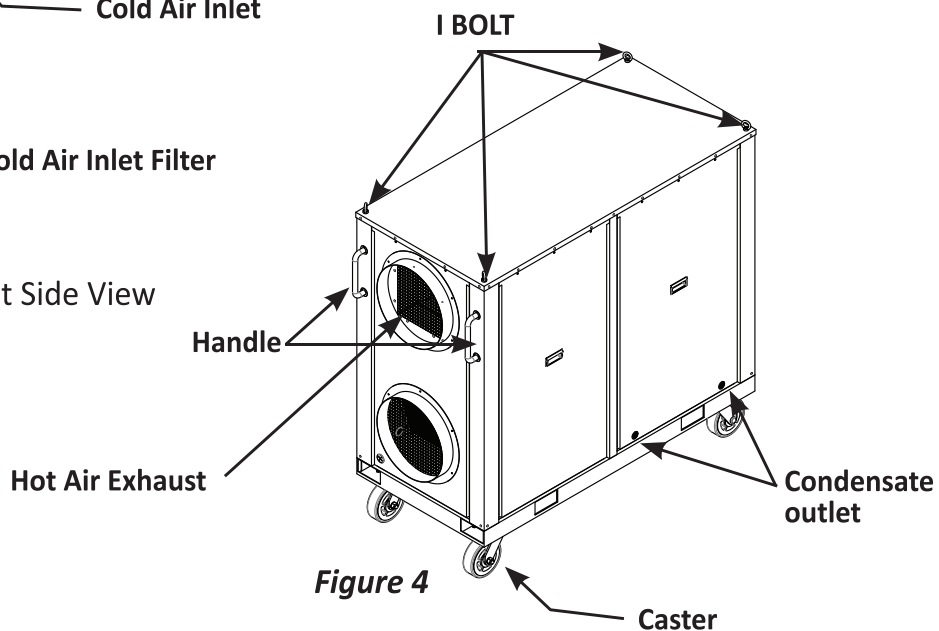


Figure 5

Casters can be locked by
locking the break down

DUCT CONNECTIONS

Cool Air Out Duct(EVA)

The Cool air duct connections are labeled "AIR OUT". The connection size is 350Ø in diameter. Connect the flexible air ducting as follows:

1. Attach the flexible air ducting to the unit's duct collars making sure that air will not leak past the connection collar by using appropriate round flexible ducting clamps.
2. Route the ducting as straight as possible to the space being conditioned avoiding excessive turns and pinches in the ducting.
3. Verify the termination points are not restricted meaning no objects are directly in front of the termination.

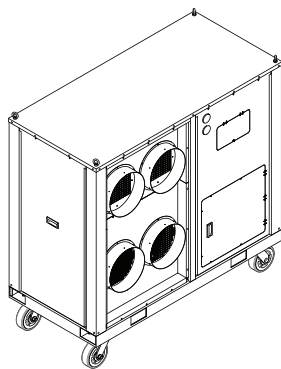


Figure 6

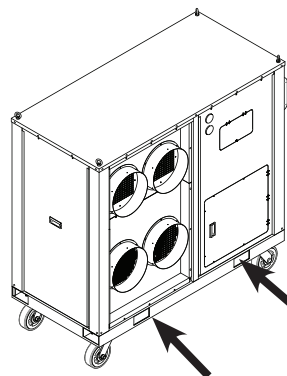


Figure 7

Cool Air in Duct(EVA)

The Return Air In duct connection is labeled "AIR IN".

The connection size is 350Ø in diameter.

Follow the same procedures as the Cool Air Duct Connections.

If you need outdoor air, please note that machine will read the temperature of the outdoor air.

Hot Air Out Duct(COND)

The Hot Air Out duct connection is labeled "AIR OUT"

The connection size is 450Ø in diameter.

Follow the procedures as the cool air duct connections

Hot Air in Duct (COND)

The Hot Air Out duct connection is labeled "AIR IN"

The connection size is 450Ø in diameter.

Follow the procedures as the cool air duct connections

Forklift

If a forklift is needed to move the unit, put the foot of the forklift to the forklift hole (shown in the picture: figure 8).

OPERATION

CONTROL PANEL

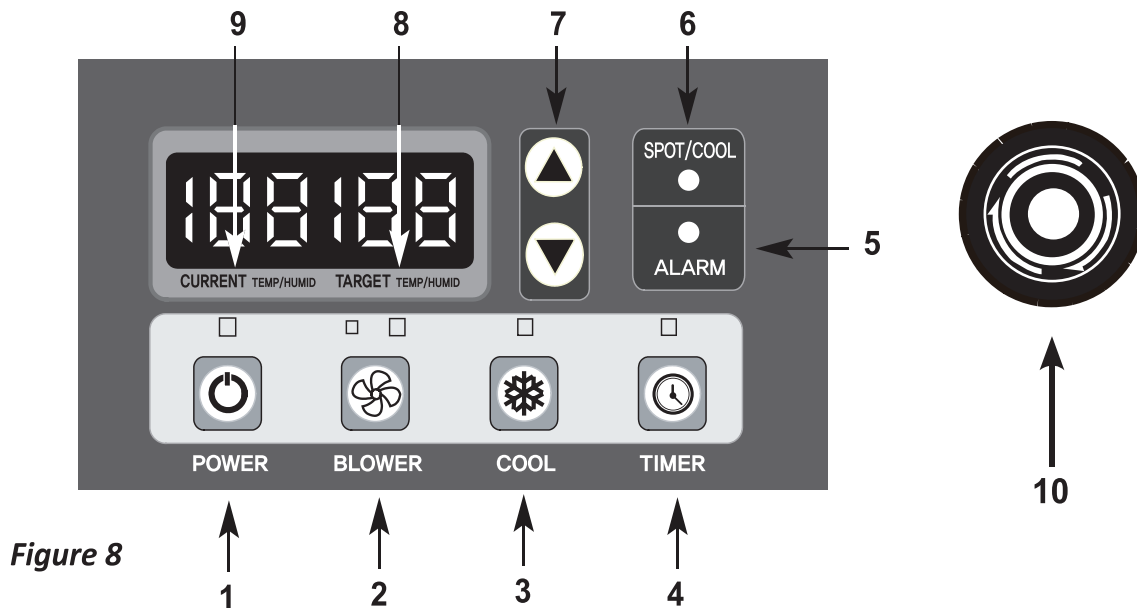


Figure 8

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.
5. **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 temperature.
8. **TARGET TEMP:** Displays unit set temperature for ROOM/COOL mode only.
Set TARGET TEMP 0°C or 32°F on SPOT/COOL mode.
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 °C to °F, press BLOWER and COOL buttons together for 2 seconds. F will blink 2 times and Figure will change to °F. ALARM codes blink and are displayed when abnormal operation occurs.

10. EMERGENCY STOP :

Emergency stop button immediately halts the operation

1. Press the red button – Unit stops
2. Inspect the unit.
3. Rotate the red button clockwise to restart the unit

SPOT/COOL mode → ROOM/COOL mode : Enter to ROOM/COOL mode if COOL BUTTON and TIMER BUTTON are pressed together for 1 seconds.

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

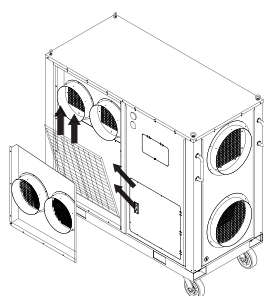
AUTO RESTART: If the unit goes off due to an electrical interruption, the unit will automatically restart when the power resumes.

MAINTENANCE

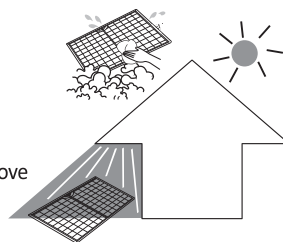
FILTER CLEANING (SEE FIGURES 11 AND 12)

1. Loosen up 6 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.

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



- Loosen up 12 bolts on the front filter guard.
- Slide filter up and use a vacuum cleaner to remove the dust from the filter.



- Remove dust from the filter using a vacuum cleaner hose attachment.
- If required wash the filter in lukewarm water with a mild detergent. Leave to dry in a shaded area before reinstalling.

Figure 11 – Removing Filters

Figure 12 – Removal of Dust

⚠ WARNING

Do not operate without the filter fitted.

⚠ WARNING

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.
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Product	Portable Air Conditioner	Customer: Please read and keep this manual for future reference and keep sales receipt as proof of purchase.
Model No.		
Date of Purchase		
Place of Purchase		
Serial No.		
Period of Warranty		

SELF-DIAGNOSTIC CODES

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 Code		Possible Causes	What To Do
	Compressor overload	- High ambient temperature - Unstable power supply - Defective compressor	- Ambient temperature must be under 45°C(113°F) - Check the power supply - Contact a qualified service agent
	Out of phase	Incorrect power cable connection	Re-connect the power cable to the correct power source
	Drain pump (Applicable for unit with drain pump)	- Defective drain pump - Improper water circulation	- Check the hose connection from drain pump - Replace the drain pump - Contact a qualified service agent
	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)
	Low pressure	- Refrigerant leak - Low ambient temperature	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
	Abnormal temperature sensor	TH1 (Evaporator coil) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor	TH2 (Evaporator coil) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor	TH3 (Evaporator coil) temperature sensor has a loose or broken connection	Contact a qualified service agent

Table 1- Alarm Codes

[illegible]

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TROUBLESHOOTING CHART

Symptom	Possible Cause(s)	Corrective Action
The unit doesn't work	1. Check the power supply to verify that power is available to the unit 2. Verify that the power cord is connected	1. Reset the circuit breaker and restart the unit 2. Connect power cord
No cold air flows from the cold air outlet	1. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned 2. Compressor will not work if the unit is turned off and on quickly. 3. The ambient air temperature may be too high	1. Clean the filter 2. Wait 2 minutes after unit is turned off before turning the unit back on. 3. The temperature of the compressor 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

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 WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LOCATION, 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 JURISDICTION 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.

