Owner's Manual WPD-120

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 I or property damage! Retain instructions for future reference.

WELTEM CENTON Portable Dehumidifier

Description

WELTEM Dehumidifier is suitable for areas/places where humidity causes serious problems.

Strong dehumidification performance can prevent any issues resulted from humidity. Auto drain pump is equipped in the unit so it is very convenient for user A control panel provides ease of use and contains a self-diagnostic function and display, showing operating modes, current humidity and target humidity, 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, outdoor event, etc.



WPD-120 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	Dehumidification Amount	Power Con- sumption Watts	Rated Current Amps
WPD-120	Single Phase, 115V, 60Hz	120L/1day	1200	10.66
Model No.	Nema Plug	Power Cord Gauge AWG	Power Cord Length ft	Dimensions W x D x H - in. (mm)
WPD-120	5-15P	14	10	21.7x 23.9 x 33 (551 x 607 x 839)
Model No.	Weight (Net / Gross) Lbs(kg)	Supply air Flow (High/Low)CFM(CMM)		Ambient temperature range °F(°C)
WPD-120	141 / 152 lbs.(64/69kg)	953/671 (27 / 19)		41~95(5~35)



Specifications (Continued)

Model No.	Target humidity range		Setting	Setting range	
WPD-120	0 ~ 99 %		20 ~ 8	20 ~ 80 %	
Model No.	Refrigerant Type / oz(g)		Wheels pcs / diameter	Design Pressure - Hi/Low Psig	
WPD-120	R-410A / 33.5(950)		4 / 76mm	450 / 250	
Safety Devices ter, Fu			overload protector, Anti- tank switch, Automatic Compressor time delay ch	restart (Power	
Features		-	control, Self-diagnostic tional drain pump kit, V , 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 is designed to operate under 5°C (41°F)~35°C (95°F) and RH maximum 80%.
- 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.

▲ 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
- 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 qualified lectrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of 15A.(120V)
- 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.

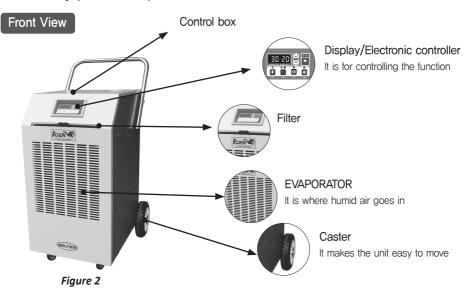
A WARNING DO NOT operate a unit with a damaged power cord.

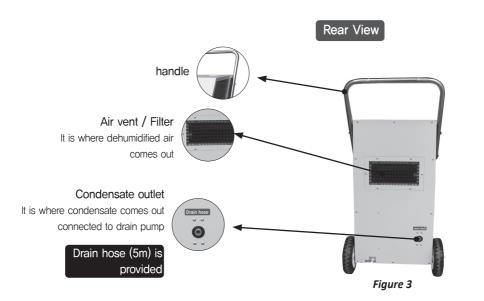
- 19. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.
- 20. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the units 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 qualified persons in order to avoid a hazard.

SAVE THESE INSTRUCTIONS



Assembly (WPD-120)







Installation

WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

▲ 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 greas where it will be exposed to rain or water.

▲ WARNING	Do not use the unit in a corrosive atmosphere.

A WARNING	Do not use the unit above 5°C(41°F) ~ 35°C(95°F).
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▲ 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.

▲ WARNING	If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.
▲ WARNING	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 air vent is free of dirt, dust, oil, water, or any other foreign material. The unit is equipped with an approved NEMA plug configuration. (WPD-120: 5-15P) The appropriate outlet must be used for each plug type.



Operation

CONTROL PANEL

(1) Display panel for Icen dehumidifier



Figure 4

(2) Description of display panel for Icen dehumidifier

POWER BUTTON	Power is supplied with deeping sound and fan starts to work when power button is pushed. (Fan starts from Low speed) The unit restarts automotically in the case of short-term blackout
BLOWER BUTTON	 It works on dehumidification and blower mode ■ Low, □ High, ■ Auto It is implemented in Low, High and Auto order and needs switching time When the gap between current temperature and target humidit is over 15%, High-mode works. When less than 15%, Low-mode works
HUMIDITY BUTTON	 Dehumidification mode works after pressing the dehumidification button for a second Lamp on display is turned on during dehumidification mode whereas it is turned off when it is not on dehumidification mode It is controlled based on dehumidification sensor and relative humidity is displayed Humidity measured on display: 0~99% Setting range: 20~80% Setting range is controlled by 'UP' and 'DOWN' button (It is either increased or decreased by 5%)



(2) Description of display panel for Icen dehumidifier





Maintenance

FILTER CLEANING (See Figures 5 and 6)

Dehumidifier WPD-120 has 2 filters.

- 1) Open the front grill
- 2) Slide filter up and use a vacuum cleaner to remove the dust from the filter
- 3) If the filter is heavily corvered with dust and dirt, warm water and mild sopa or neutral deter gent 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 grill

Note: For effective dehumidification, clean the filter at least every 2 weeks.



- To remove front filter pulling up filter flame.
- Slide filter up and use a vaccum cleaner to remove the dust from the filter.

Figure 5 - Removing Filters

- 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 shaded area before reinstalling.

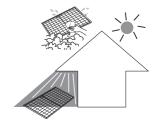


Figure 6 - Removal of Dust



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

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
	Frost prevention sensor and Abnormal temperature sensor value	 Indoor heat exchanger temperature too low TH3 temperature sensor has a loose or broken connection 	 Do not use the air conditioner if ambient temperature is lower than 5℃ Contact a qualified service agent
	Refrigerant high pressure switch	Blocked air filterAmbient temperature is too high	 Clean air filter Do not sue the air conditioner if ambient temperature is higher than 45°c
	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
	Compressor overloaded	 Ambient temperature is too high Unstable voltage supply Defective compressor Over current relay defect or broken connection 	 Do not use the air conditioner if ambient temperature is higher than 45℃ Contact a qualified service agen Replace compressor
	Abnormal dehumidification sensor value	TH4(dehumidification) sensor has a loose or broken connection	Contact a qualified service agent
Fd	Drain pump alarm	Drain pump defective or improper hose connection (including kink or blockage)	 Contact a qualified service agent Check the hose connection and hose Replace drain pump

Table 1- Alarm Codes



Wiring Diagram

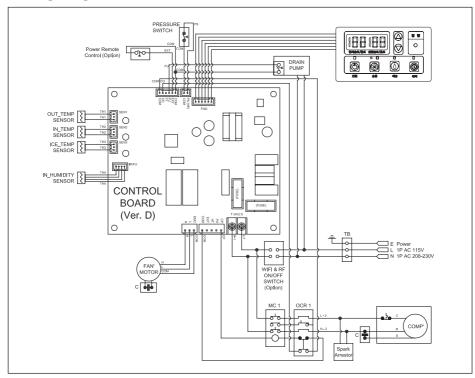


Figure 7 - Circuit Wiring Diagram (WPD-120)

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 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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Printed in September, 2017