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Low Grain Refrigerant Dehumidifier Owner's Manual

Model XD-85L, XD-85LH, XD-125L

(220-240V~, 50Hz)

Read and save these instructions www.xpower.com | www.tx-5.com.hk

Index: EU-1-A1 Edition: 2.0.Final

MWARNING - READ AND SAVE THESE INSTRUCTIONS BEFORE USING THIS PRODUCT.

The user of electrical products may create hazards that include, but are not limited to injury, fire, electrical shock. Failure to follow these instructions may damage and/or impair its operation and void the warranty.

- Before operating, remove all packaging material and check for any damage that may have occurred during shipping or any missing items.
- Check household power supply to ensure it matches the appliance's specification.
- **DO NOT** operate the appliance with a damaged cord or plug. Discard or return to an authorized service facility for examination and/or repair.
- **DO NOT** run cord under carpeting. **DO NOT** cover cord with throw rugs, runners, or similar coverings. **DO NOT** route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- To reduce the risk of fire or electric shock, **DO NOT** use this appliance with any solid state speed control device.
- DO NOT touch this appliance or the plug with wet hands or while standing in water.
- DO NOT operate the appliance near any pooled water.
- **DO NOT** use the product in areas where gasoline, paint or other flammable goods and objects are used or stored.
- **DO NOT** insert or allow objects to enter any ventilation or exhaust opening as this may damage the appliance and void the warranty.
- **DO NOT** cover the air inlet or outlet on the appliance.
- DO NOT direct the air flow at human faces or bodies.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- AUTOMATICALLY OPERATED DEVICE To reduce the risk of injury, disconnect from power supply before servicing.
- Remove the power cord from the electrical receptacle by grasping and pulling on the power cord plug-end only, **DO NOT** pull the cord directly.
- **DO NOT** attempt to repair or adjust any electrical or mechanical functions of this appliance, as this may cause danger and void the warranty.
- If the appliance is damaged or it malfunctions, **DO NOT** continue to use it. Unplug the product from the electrical outlet. Refer to troubleshooting guide or contact XPOWER.
- Store in a dry area, away from exposure to sunlight, extreme temperature and humidity, or other extreme environment, when not in use.
- **DO NOT** stack this appliance to more than three units.
- Always grip the trolley handle and keep the unit up when transporting from room to room. **DO NOT** tilt the product on its side or upside down.
- If the dehumidifier was transported tilted on its side or upside down, you must position it upright and wait at least 4 hours before using it again.
- An electronic instruction manual can be obtained through manufacturer's website www.xpowermfr.com.

IMPORTANT SAFETY INSTRUCTION

Please read the instruction carefully before operation.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Warming: Risk of fire 1 flammable materials, taking care to avoid causing a fire by igniting flammable material.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- Please according to local regulations regarding disposal of the appliance for its flammable gas. Before you scrap the appliance, please take off the doors to prevent children trapped.
- Appliance shall be installed, operated and stored in a room with a floor area larger than 14.4m2, pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 14.4m2.
- The maximum refrigerant charge amounts 1.0kg.
- Waring: Keep ventilation openings clear of obstruction.
- Notice: Servicing shall be performed only as recommended by the manufacturer.
- Warming: The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation;
- Warming: The appliance shall be stored in a room without continuously operating open flames (for ex ample an operating gas appliance) and ignition sources (for example an operating electric heater).
- Warning: The appliance shall be stored so as to prevent mechanical damage from occurring.
- Notice: Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Notice: Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

Correct disposal of this product

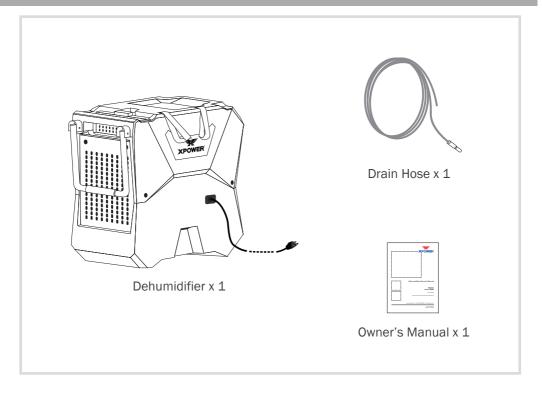
• This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device. Please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



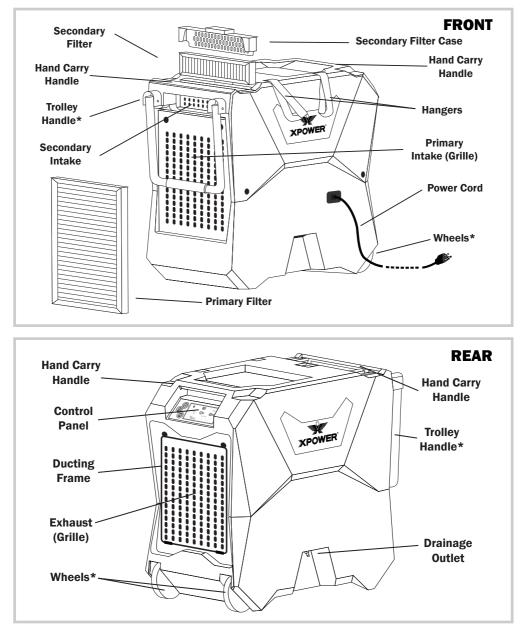
LGR Dehumidifier Introduction

- XPOWER LGR (Low Grain Refrigerant) Dehumidifiers are designed to maximize water extraction while combining the highest efficiency in performance and portability.
- Latest technology and a high efficiency extraction process ensures peak performance in even the most challenging environments, such as extreme temperature and low environment humidity.
- With high efficient water removal capacity, the LGR (Low Grain Refrigerant) Dehumidifier allows an extreme dry zone in the working area and water migration to the air from all the surfaces. It is ideal for water damage restoration and industrial applications where maximum air drying performance is needed.

Items Included



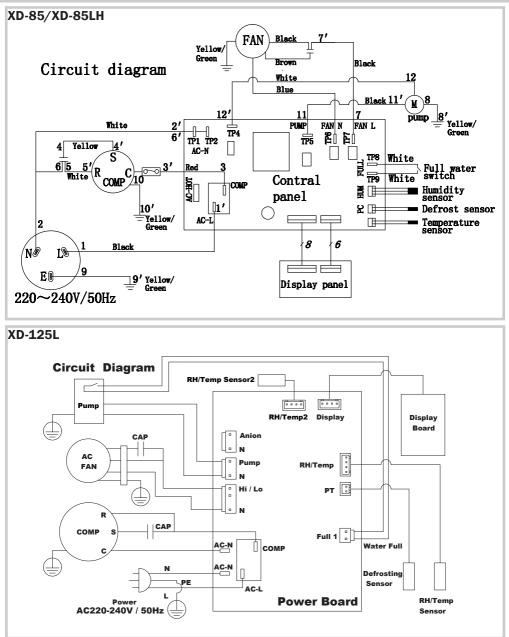
Parts Description



* Trolley handle and wheel feature do not apply to all models mentioned in this manual.

Parts Description (Continued)

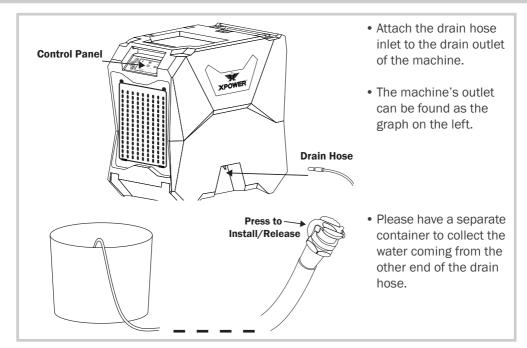
Circuit Diagram



Selecting a Location (Important)

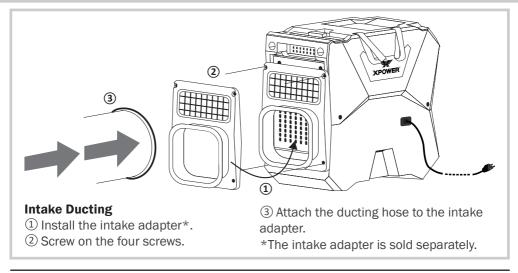
- **Positioning:** Before using the dehumidifier, place the unit **UPRIGHT** for at least 1 hour before use to allow the refrigerant to stabilize. If the unit was tilted on its side or upside-down during transportation, set the unit **UPRIGHT** for at least 4 hours before use. The dehumidifier must be positioned **UPRIGHT** on a level surface during use.
- **Enclosed Area:** For optimal efficiency, the dehumidifier must be operated in an enclosed area. Keep all doors, windows and other outside entrances to the room closed. Turn off the air conditioning.
- Air Circulation: It's suggested to have a constant efficient air circulation inside the area that you are going to work in, for example, setting up a circulation with XPOWER Air Mover combinations.
- Environment Temperature/Humidity: The dehumidifier is designed to work in an environment with a temperature of 0.6 °C to 40.6 °C (33 °F to 105 °F) and relative humidity level of 20% and higher. The dehumidifier may not function normally or efficiently if the room temperature and humidity level exceed this temperature and humidity level range.
- **Power Cord and Drain Hose:** The power cord has a length of 7.5 meters (25 feet) and the drain hose has a length of 12 meters (40 feet). Select a location where the power cord can reach the power source and the drain hose can reach the area you want. Please do not lift the drainage hose higher than 4.0 m (13 feet) above the machine.
- Inlet and Outlet Orientation: Also pay attention to the orientation of the air inlet and air outlet. Make sure the airflow won't influence any object nearby the dehumidifier.
- **IMPORTANT:** The effectiveness of the dehumidifier can be influenced by different factors. You should keep any new moisture-laden air away from the working area and allow sufficient enclosed air circulation in the room. You may also find that installing multiple dehumidifiers may be required for larger enclosed areas.

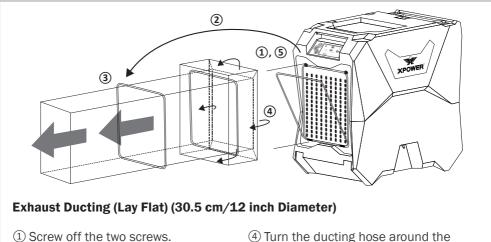
Drain Hose Installation



Installation and Operation Guide (Continued)

Extension Setup (Optional)





- (1) Screw off the two screws.
- 2 Take out the ducting frame.

③ Let the ducting hose go through the

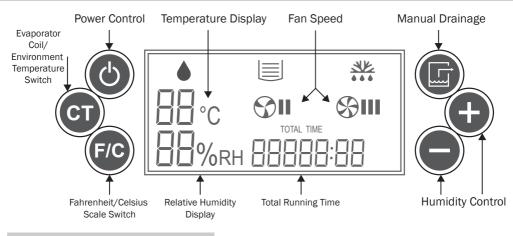
ducting frame.

④ Turn the ducting hose around the frame to its back.

⑤ Reinstall the ducting frame and screw on the two screws.

Installation and Operation Guide (Continued)

Control Panel (XD-85/XD-85LH)



Buttons (XD-85/XD-85LH)

Power Control

Press to switch the dehumidifier ON or OFF.

Fahrenheit/Celsius Scale Switch 📧

Press to switch the display of the temperature in Fahrenheit or Celsius scale.

Evaporator Coil/Environment Temperature Switch (c)

Press to switch the display of the temperature of the evaporator coil or environment.

Manual Drainage 🜀

Press to drain manually. Manual drain will last for 25 seconds. [See Page 11: Drainage (Important)]

Humidity Control 🕒 🗨

Tap "+"/"-" to increase/decrease the desired humidity level by 1% increments. Touch and hold to increase/decrease the setting humidity level by 5% per second. The adjustable range is 30% to 90%.

Information (XD-85/XD-85LH)

Relative Humidity Display



This will show the relative humidity level of the setting or environment. As default, it displays the environment humidity. When adjusting humidity, it will display the setting humidity and blink. After 5 seconds from the last adjustment, it will display the environment humidity again. (See Page 8: Humidity Control)

Control Panel (Continued) (XD-85/XD-85LH)

Temperature Display

This will show the temperature of the evaporator or environment (See Page 8: Evaporator Coil/Environment Temperature Switch). When in Celsius scale, °C will be illuminated. When in Fahrenheit scale, °C will turn off. If the temperature to show is higher than 99 °F, the scale will be set to Celsius automatically (See Page 8: Fahrenheit/Celsius Scale Switch).

Fan Speed 🕥 🛛 🚱 💷

This will show if the machine is running on low (💬 III) or high (💬 IIII) fan speed. The dehumidifier will control the fan speed according to the environment temperature and humidity.

Total Running Time

This will show the total running time from the first usage to the current moment. Running time starts to count during the time when the machine turns on. The value can't be reset.

Indicators (XD-85/XD-85LH)

Defrosting Light

This light indicates the evaporator coil or environment temperature is too low. Frost may start to appear on the evaporator coil. The machine is now defrosting.



At the humidity level setting of 30%, if humidity control button "-" is pressed, $\begin{bmatrix} \Box \\ \Box \end{bmatrix}$ will blink on the humidity display. The machine will enter into constant dehumidification mode and won't stop dehumidification as environment humidity changes.

"OFF" Light

This light indicates the machine is connected to power source and it is now turned off.

Dehumidification Light

When this light blinks, it indicates the machine is now preparing for dehumidification. When this light stays bright, it indicates the machine is now dehumidifying.

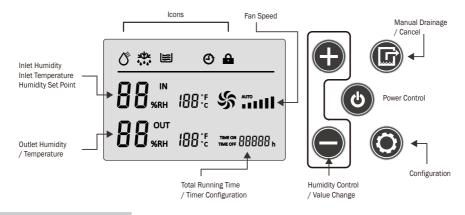
Drainage Indicator Light

When this light blinks, it indicates the machine is in drainage process. When this light stays bright, it indicates the water tank is full

Error Codes [], [], [], []

These are error codes. Please refer to Troubleshooting Guide for more information.

Control Panel (XD-125L)



Buttons (XD-125L

Power Button

Press to switch the dehumidifier ON or OFF. Press to enter configuration.

Mannual Drainage / Cancel

Press to drain manually. Manual drain will last for 1 minute. Press and hold to lock screen. When configuring a timer, press to cancel configuration.

Inlet Humidity/Temperature / **Humidity Set Point**

Show the temperature, relative humidity of inlet, as well as the humidity set point.

Fan Speed

Show the current fan speed. The speed control is automatic.

Constant Dehumidification

At the humidity set point of 30%, if humidity control button "
"
" is pressed, the machine will enter into constant dehumidification mode.

Configuration 🔘

Humidity Control / Value Change

Press to change humidity set point. During configuration, press to change settings or values.

Total Running Time / Timer Configuration

Show the total running time from the first usage to the current moment, as well as the timer configuration.

Outlet Humidity/Temperature

Show the temperature, relative humidity of outlet.

Info (XD-125L)

Dehumidification 🖉

Blink when the machine is now preparing for dehumidification. Illuminate when the machine is dehumidifying.

Timer 🕑

Indicate a timer is configured.

Locked Screen

Indicate the screen is locked.

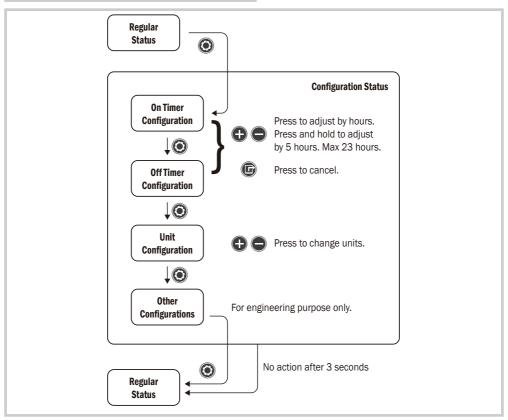
Drainage 🗵

Blink when the machine is in drainage process or when the water tank is full.

Enteisung

Indicate the machine is now defrosting.

Configuration Instructions (XD-125L)



Start Your Job

Turn on the dehumidifier

Press the Power Control button to switch on the machine. You may see the dehumidification light is flashing. Please wait for 3 minutes (180 seconds) until the machine completes the startup.

Write down the starting time

Please remember to write down the starting time DDDDD right after the machine starts, if you want to calculate the usage time.

Set the desired humidity level

- Tap the humidity control button to adjust the setting humidity level. The default humidity setting is 30%. The adjust range is from 30% to 90% (See Page 8: Humidity Control). The machine will try to match the setting humidity level and maintain it.
- If you want the machine to work constantly, please adjust the humidity level down to 30%, and then press "-" (See Page 9: Constant Dehumidification). Tap "+" to exit constant dehumidification mode.
- If the dehumidifier loses power accidentally, when turned on again, the dehumidifier will work on the last known configuration.

Dehumidification

- When the machine is dehumidifying, the dehumidification light goes on.
- You may see the dehumidification light is flashing. That means the dehumidification temporally pauses or the environment humidity has reached the setting level. Please wait until the machine completes the startup or until the humidity level rises up again.
- The dehumidifier will control the fan speed according to the environment temperature and humidity.

Defrosting

- When the evaporator coil or the environment temperature is too low, frost may appear on the evaporator. This will cause a lower effectiveness of the dehumidification. The machine will start defrosting until the temperature goes back to normal.
- When the machine is defrosting, the dehumidification pauses. The dehumidification light goes off, and the defrosting light will go on.
- Do not turn off the machine during defrosting process.

Installation and Operation Guide (Continued)

Start Your Job (Continued)

Secondary Intake (Opened)



Secondary Intake (Closed)

Secondary Filter Case

Important: Close the secondary intake when environment temperature falls under 20 °C (68 °F) or in contaminated environment for better efficiency.

To close the secondary intake, remover the filter case, rotate and re-install.

Drainage (Important)

- Press the Manual Drainage button to process drainage manually. It will last for 25 seconds and won't stop dehumidification or defrosting process.
- If the water tank is full or not positioned horizontally, the water tank full indicator light will go on. Any dehumidification or defrosting process will pause and the machine will automatically process drainage for 25 seconds. Afterwards, if the water tank is still detected full, an error code will be displayed (See Page 9: Error Codes or Page 14: Troubleshooting Guide).
- When turned off, the machine will automatically process drainage for 25 seconds. Please wait until this process completes.
- Please do not lift the drainage hose higher than 4.0 m (13 feet) above the machine.

Calculate the usage time

Please remember to write down the ending time and a right before the machine shuts down.

TOTAL TIME

• Compare the starting time and the ending time to calculate the usage time.

Installation and Operation Guide (Continued)

Start Your Job (Continued)

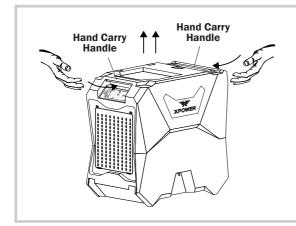
Turn off the dehumidifier

Press the Power Control button to switch off the machine. When turned off, the machine will automatically process drainage for 25 seconds. Please wait until this process completes.

Transportation

Before transportation, you should always:

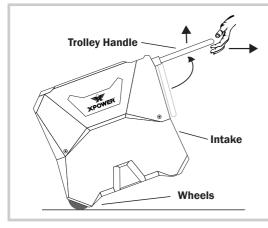
- Process a drainage manually. Otherwise the water may spill and enter in core parts of the machine during transportation. This may also void the warranty.
- Disconnect the machine from the power source.
- Remove all the extension setup and organize the power cord and drain hose.



Lift with Hand Carry Handles

- Lift the dehumidifier with the two hand carry handles on the two ends on the top.
- Be aware of the weight of the machine and keep the machine levelled during transportation.

A WARNING: do not use the hanger as hand carry handles.



Transport with Trolley Handle*

- Lift the dehumidifier on the wheels with the trolley handle.
- Pull to transport with the trolley handle.

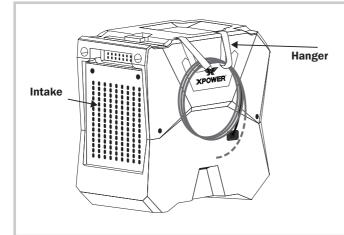
* Trolley handle and wheel feature do not apply to all models mentioned in this manual.

User Maintenance Instructions

Frequent maintenance is recommended on this appliance. Failure to follow the maintenance instructions may cause failure of the appliance and void the warranty.

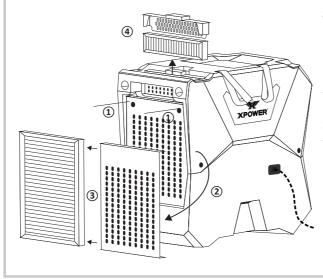
Before maintenance or storage, you should always:

- Process a drainage manually.
- Disconnect the machine from the power source.
- Remove all the extension setup.



Organize the Drain Hose and Power Cord

- Remove the drain hose from the outlet of the machine.
- Open the velcro on the hangers.
- Hang the drain hose and power cord on the hangers and close the velcro.



Store or Replace the Filters

- 1 Screw off the two screws.
- 2 Take out filter grille.
- ③ Slide off the primary filter from the grille.

④ Take out secondary filter case and the secondary filter from the slot.

- Clean and wash the filters with water.
- Store the filter in dry and cool area in a sealed container.
- Replace filters if necessary.

User Maintenance Instructions (Continued)

Clean the surface

- Use a damp cloth to wipe the surface of the housing. Do not clean the unit with water directly.
- Do not clean the fins of the evaporator and condenser by yourself.

Store the machine

- Store the appliance in a dry and cool indoor place, away from direct sunlight as well as chemicals and out of reach of children.
- **IMPORTANT:** make sure the machine is levelly positioned.
- If you want to stack this appliance, stack them on their tops with the same orientation.
- Do not stack more than three units of this appliance.

PROBLEM	POSSIBLE CAUSE	SOLUTION		
Dehumidifier does not start	No electricity.	Check for power supply.		
	The power cord is not properly plugged in.	Remove and reconnect the power cord.		
Dehumidifier runs but humidity level does not decrease	The dehumidification system is within startup process.	Wait for 3 minutes (180 seconds) until the dehumidification light stops blinking.		
	The humidity level setting is too high.	Decrease the humidity level setting.		
	The working area is not enclosed.	Make sure the area is tightly sealed.		
	There are other sources of humidity in the room.	Remove these sources or wait until they completely volatilize.		
	The humidity level has reached the setting level.	Decrease the humidity level setting, set to constant dehumidification mode, wait until the humidity level rises up again.		

Troubleshooting Guide

Troubleshooting Guide (Continued)

PROBLEM	POSSIBLE CAUSE	SOLUTION	
Dehumidifier runs but humidity level does not decrease	The machine was tilted and wasn't positioned upright for enough time before use.	Position the machine upright on a level surface and wait for at least 4 hours before next use.	
	The air filter or air inlet/outlet is blocked.	Remove blockage.	
	The environment temperature is too low/high or the humidity level is too low.	The dehumidifier is designed to work in an environment with a temperature of 0.6 °C to 40.6 °C (33 °F to 105 °F) and relative humidity level of 20% and higher. Make sure the room temperature/humidity does not exceed this range.	
Water on the floor	The drain hose is loose.	Tighten the connection of the drain hose.	
Sudden noise	The machine starts drainage process.	The water pump can create sounds during operation. This is a normal sound.	
Error Code: E2	Failure of the temperature sensor.	The dehumidification can function but you won't be able to see the temperature/humidity on the screen. Contact XPOWER or authorised parties.	
Error Code: E3	Failure of the humidity sensor.		
Error Code: E4	Failure of the water pump	Contact XPOWER or authorised parties.	
	The machine is not positioned levelly.	Position the machine on a level surface.	
	The drain hose is blocked.	Remove blockage.	
Error Code: E5	Failure of the defrost sensor.	The dehumidification can function but will defrost for 5 minutes every half an hour. Contact XPOWER or authorised parties.	

If troubleshooting does not resolve your problem, please contact XPOWER or other parties authorized by XPOWER for further instructions.

Technical Specification

MODEL NUMBER	XD-85L2	XD-85LH	XD-125L	
Voltage / Frequency	220 - 240 V~, 50 Hz			
Rated Power 26.7 °C (80 °F) / 60% RH	985 W		1300W	
Amperage	4.3 A		5.7 A	
Operation Temperature/ Relative Humidity Requirement	0.6 °C to 40.6 °C (33 °F - 105 °F) / 20% RH or higher			
Rated Airflow	180 CFM		336 CFM	
Speed Control	Automatic			
Water Removal Efficiency 26.7 °C (80 °F) / 60% RH	35 L per day		55L per day	
Water Removal Efficiency 30 °C (86 °F) / 80% RH	55 L per day		85L per day	
Water Removal Efficiency 32.2 °C (90 °F) / 90% RH	65 L per day		100L per day	
Compartment Feature	Yes	No	Yes	
Time Meter	Up to 9999 hours 50 minutes			
Filter Type	Stainless Steel Filter			
Cord Length	7.5 m			
Drain Hose Length	12.0 m			
Unit Dimension (L) x (W) x (H)	33.2 x 82.1 x 57.1 cm	33.3 x 80.1 x 57.5 cm	63.6 x 44.6 x 47.4 cm	
Unit Weight	32.0 kg	32.2 kg	40 kg	
Safety Certification	CE / UKCA			

XPOWER Limited Warranty

1 YEAR LIMITED WARRANTY

XPOWER-branded products purchased in the U.S. from authorized distributors include a 1-year limited warranty. Contact XPOWER to confirm warranty information about your product(s).

This limited warranty covers defects in materials and workmanship in your XPOWERbranded products. Contact an XPOWER Distributor in your region for warranty service and parts replacement.

Items mentioned but not limited to below are not covered by warranty:

- (1) Power cord, batteries, filters or any other components considered as a "consumable parts" by XPOWER.
- (2) Normal wear and tear.
- (3) Problems that result, directly or indirectly, at XPOWER's sole discretion, from:
 - (3.1) External causes such as accident, abuse, misuse or problems with electrical power supply.
 - (3.2) Disassembling, servicing or modification not authorized by XPOWER.
 - (3.3) Usage that is not accordant with product instructions stated in Owner's Manual.
 - (3.4) Failure to follow the product instructions or lack of necessary maintenance stated in Owner's Manual.



XPOWER Manufacture, INC.

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