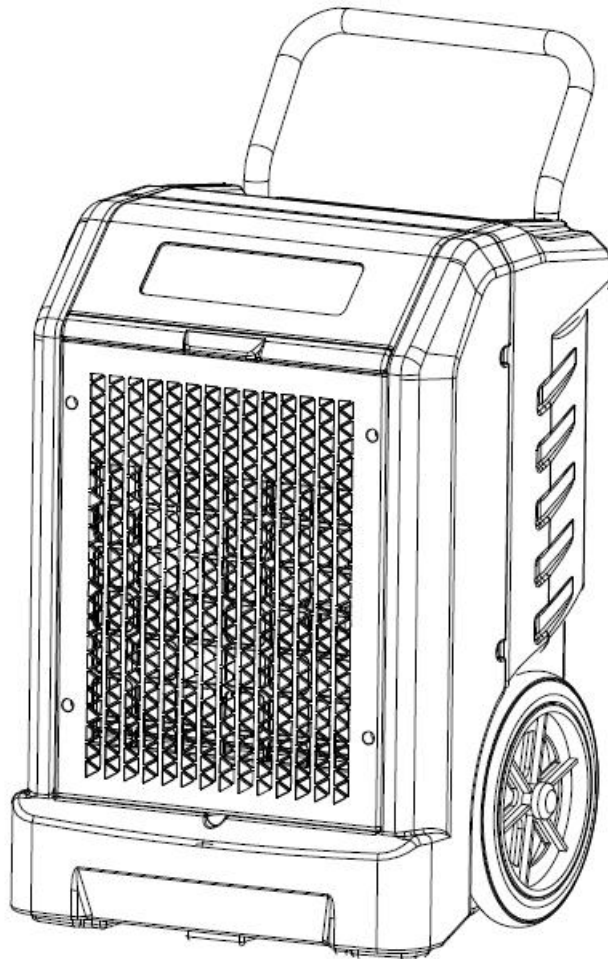


# LUKO Dehumidifier

## User Manual



**Model No.: OL-R230S**

**Please read this User Manual before operating and save for future reference.**

You've been covered with a 1-year free warranty offered by LUKO which is automatically valid from the date of purchase. To extend the warranty to 2 years or for any questions or concerns, please email LUKO at [support@oulungroup.com](mailto:support@oulungroup.com)

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## SAFETY INFORMATION

- Install the dehumidifier on flat surface to minimize vibration and or noise.
- Inspect the power cord before use. Never operate the dehumidifier when the power cord or plug is damaged.
- Insert the three-prong plug on the power cord into a matching electrically grounded outlet (115V/ 60 Hz, 15 A at least). Do not use an adapter. Never cut off the third prong. Do not use an extension cord.
- Do not operate the dehumidifier in standing water. Keep motor and wiring dry.
- Never immerse the dehumidifier into water or other liquids.
- Do not put the dehumidifier close to heat-generating devices, including flammable or dangerous materials.
- Unplug the power supply before cleaning or storing the dehumidifier. Always grasp the plug (not the cord) to unplug.
- Do not put fingers or other items into air inlet or air outlet.
- Never insert any other objects into the dehumidifier body.
- Do not sit, stand or put heavy objects on the dehumidifier.
- This dehumidifier should only be used by adults who have read the manual and understand the operating procedure of the dehumidifier.
- The dehumidifier is not to be used 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 by an adult.



**Never repair or remove plug and or power cord. Any repairs should be completed by qualified electrician or distributor.**

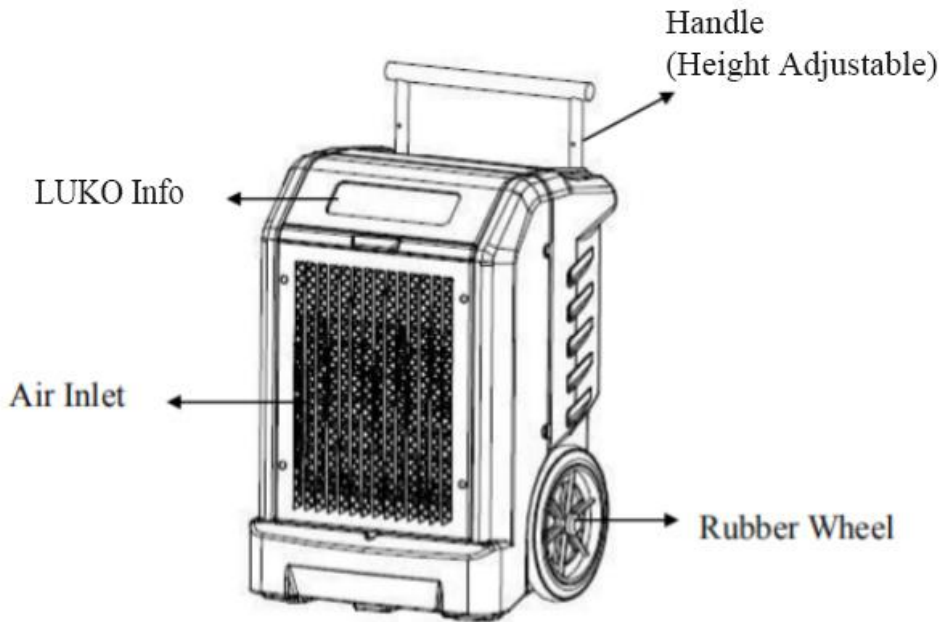
## PRODUCT SPECIFICATIONS

| <b>LUKO Dehumidifier</b>  |                     |               |
|---|---------------------|---------------|
| Model No.   | OL-R230SP           |               |
| Power Source  | AC 110-120V, 60 Hz  |               |
| (80°F, RH 60%)  | Input Power         | 945 W         |
|   | Input Current       | 8.3 A         |
|   | Moisture Removal    | 130 Pints/Day |
| (86°F, RH 80%)  | Input Power         | 1140 W        |
|   | Input Current       | 10.6 A        |
|   | Moisture Removal    | 200 Pints/Day |
| (90°F, RH 90%)  | Input Power         | 1275 W        |
|   | Input Current       | 11.4 A        |
|   | Moisture Removal    | 230 Pints/Day |
| BCSC  | 15 A                |               |
| Motor Compressor  | RLA:9.1A; LRA:50.5A |               |
| Refrigerant   | R410a (26.8 oz.)    |               |
| High Pressure   | 522 PSIG (3.6 MPa)  |               |
| Low Pressure  | 240 PSIG (1.65 MPa) |               |
| Fan Motor Power   | 0.187 HP            |               |
| MADE IN CHINA   |                     |               |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>Intertek</b><br/>5006106</p> </div> <div style="text-align: center;"> <p><b>CONFORMS TO UL STD.</b><br/><b>60335-1&amp;60335-2-40</b><br/><b>CERTIFIED TO CSA STD.</b><br/><b>C22.2 NO.60335-1&amp;60335-2-40</b></p> </div> </div> |                     |               |

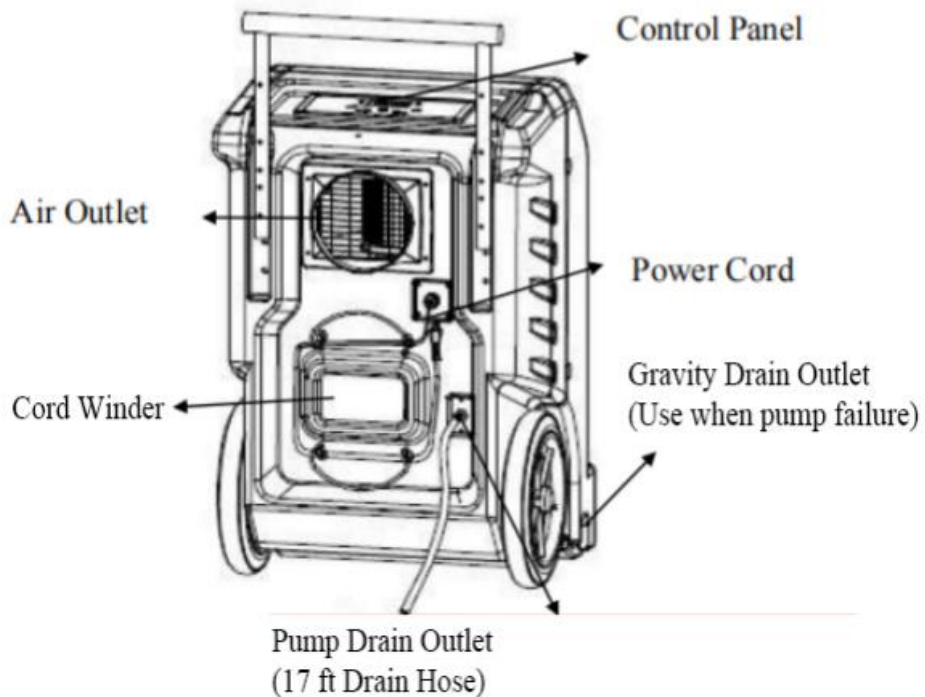
## FEATURES

- \* High Dehumidifying Capacity for commercial & industrial use
- \* Straightforward Control Panel for easy operation
- \* Built-in Pump for convenient drainage
- \* Tough Semi-pneumatic Wheels and Handle for easy transport
- \* Rotational Molded Housing for tough job
- \* Hot Gas Valve System for fast defrost and low temperature operation
- \* Low Power Consumption
- \* Adjustable Handle Height

## PARTS IDENTIFICATION



### Back



### NOTE:

- Do NOT obstruct the air inlet and/or outlet while the dehumidifier is running.
- Apart from the 17 ft long drain hose for pump drainage, the package also includes a 3.3 ft hose which is used for emergency drainage in the event of pump failure.

# OPERATION INSTRUCTIONS

## 1. Position Your Dehumidifier

### IMPORTANT

Transporting or storing the dehumidifier in a horizontal position is not recommended. When the dehumidifier is placed in a horizontal position, the oil from the compressor can flow into the refrigerant coils and reduce the ability of the dehumidifier to function and possibly damage the dehumidifier. If the dehumidifier has been placed in a horizontal position, set it upright and let it stand for at least **24** hours before plugging it in.

For best results, operate your dehumidifiers in an enclosed area. Close all doors and windows that open for efficiency. Place your dehumidifier away from obstructions, and keep it away from anything that could block airflow into and out of the dehumidifier.

## 2. Set Up the Drainage

This dehumidifier has an internal pump that will automatically drain the condensate out via the 17 ft long drain hose. The hose, stored on the back of the dehumidifier, is equipped with a quick-connect fitting for easy attachment to the drain outlet. Before turning on the dehumidifier, make sure the hose has been connected to the drain outlet.

- 1) Uncoil the entire hose;
- 2) Attach the end of the hose with the connect fitting to the drain outlet directly, until you hear a “click” sound;
- 3) Place the unattached end in a sink, drain, bucket or outdoors – anywhere that water can drain out safely. ( Ensure there are no kinks or other obstructions that will stop the water to flow.)

### NOTE:

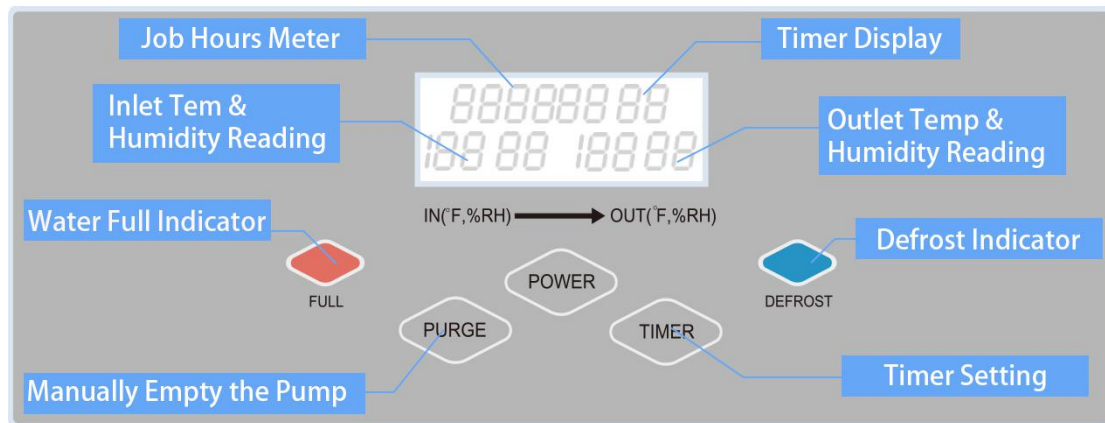
- Ensure that water which runs to outdoors does NOT create a slip hazard.
- If you use a bucket or other container for water collection, check it regularly to prevent overflows.
- The drain hose for the water pump can drain up to 15ft vertically. More than 15ft may cause water back up to the pump resulting in leakage.
- When turning off the dehumidifier, please take the hose out from the water collection container to avoid the water back-flow causes water leakage.
- To remove the drain hose from the outlet, press and hold the buckle on the connect fitting and pull the hose out.
- The dehumidifier won't drain without connecting the drain hose.

### 3. Plug in Electrical Cord

The dehumidifier needs to be plugged into a GFCI-protected 115 volt outlet rated for at least 15 amps. Uncoil the power cord from the winder and plug it firmly into a suitable outlet.

After plugged in, the dehumidifier will automatically enter into standby mode where the readout on the display screen is in dim light.

### 4. Understand the Control Panel



#### Display Screen

- The first line of the display shows the total number of hours the dehumidifier has been in operation. It will also countdown the timer on the right if the timer function has been activated.
- The second line of the display shows current temperature and humidity of inlet and outlet.

**POWER Button:** Press to turn the dehumidifier ON or OFF.

- **To Turn the Dehumidifier ON:** In standby mode, press the POWER button to turn the dehumidifier on. The readout on the display screen will light up and the dehumidifier will run in continuous dehumidify mode.
- **To Turn the Dehumidifier OFF:** Press the POWER button again to turn the dehumidifier off. The compressor will turn off right after you pressed the POWER button, but the fan will not stop until 1-2 minutes later.
- **To Toggle the Temperature Scale:** Press and hold the POWER button for 5-8 seconds to toggle the temperature scale between Fahrenheit and Celsius. (Default temperature scale is Fahrenheit.)

**DEFROST Indicator:** The dehumidifier begins to defrost when the defrost indicator illuminates; the dehumidifier has stopped defrosting when the light is no longer illuminated. When defrosting is complete, the dehumidifier begins to

dehumidify again automatically.

**PURGE Button:** Press and hold the PURGE button for 3-5 seconds to empty water from the pump reservoir. Use "PURGE" before moving the dehumidifier to avoid water spillage. The FULL indicator will light up after you pressed the PURGE button, which means the pump is working. 30 seconds later, the pump will stop working automatically and the FULL light will go off.

**NOTE:** During operation, the pump purges automatically via the drain hose when the reservoir is full.

**FULL Indicator:** The FULL indicator lights up

① when the pump is automatically draining the condensate from the reservoir when the reservoir is full,  
or ② when the user manually drains the pump by pressing the PURGE button.

**TIMER Button:** The TIMER function enables you to either delay AUTO-ON or delay AUTO-OFF the dehumidifier in the choice from 1 hour to 12 hours.

- **Setting an AUTO-ON timer:** When the dehumidifier is on standby, selecting Timer will turn the dehumidifier on in the hours that will be set.
- **Setting an AUTO-OFF timer:** When the dehumidifier is running, selecting Timer will turn the dehumidifier off in the hours that will be set.

**To Set Timer:**

- 1) Press and hold the TIMER button for 3-5 seconds to activate TIMER feature;
- 2) Repeatedly press the TIMER button to increase the delay timer at 1-hour increments, up to 12 hours; repeatedly press the PURGE button to decrease the timer setting value at 1-hour decrements;
- 3) The control will count down the time remaining (8,7.5,7, etc.) until the dehumidifier either starts or stops.
- 4) After TIMER setting finishes, pressing the TIMER button again at any time will stop the TIMER function.

**Note:**

- Set AUTO ON timer when the dehumidifier is in standby mode or set AUTO OFF timer when the dehumidifier is running. It's not allowed to set both AUTO ON and AUTO OFF timer at the same time.
- The Delay Start/Stop Feature will work until the dehumidifier either starts or stops.
- The TIMER will ONLY function one time instead of cycling the dehumidifier on or off indefinitely.
- Set the timer at 00, the timer function won't be activated.



## **5. Smart Functions**

### **Auto Drainage**

Thanks to the built-in pump, the dehumidifier will drain the condensation water automatically.

### **Wait 3 Minutes before Resuming Operation**

To avoid any damage to the dehumidifier, the dehumidifier will not start operation following a complete cycle until after 3 minutes. Operation will automatically start after 3 minutes.

### **Auto Defrost**

When the frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears.

### **Auto-Restart**

If the dehumidifier shuts off unexpectedly due to power being cut, the dehumidifier will restart with the previous function setting automatically when the power resumes.

## MAINTENANCE



Ensure the dehumidifier is turned OFF and the plug is removed from the power socket before cleaning or maintenance is carried out.

### 1. Cleaning the Dehumidifier

Clean the dehumidifier house with a soft damp cloth. Do not submerge or place water on the dehumidifier or control panel. Water may damage the electronic components of the dehumidifier. Do not use chemical solvents such as benzene, alcohol, gasoline or other heavy-duty cleaners. The surface may become damaged or deformed.

### 2. Cleaning the Air Filter

The working performance of the dehumidifier will be greatly reduced if the filters become blocked.

#### To Clean the Filter

- 1) Push the filter up from the finger slot at the bottom of the air inlet grill and then pull out the air filter from the top side gently.
- 2) Vacuum any debris from the filter using the vacuum hose and nozzle attachment.
- 3) Immerse the filter into lukewarm water (about 100°F) with a mild detergent, and then wash it and allow it to dry.
- 4) Once dry, re-install the filter into the dehumidifier.

### 3. Dehumidifier Storage

- 1) Press and hold the PURGE button to empty the water before transportation or storage.
- 2) Transport and store the dehumidifier upright.
- 3) Stack this dehumidifier to save space.

## TROUBLE SHOOTING GUIDE

| Problem                                  | Possible Cause             | Solution                      |
|--|----------------------------|-------------------------------|
| Dehumidifier does not operate            | No power to dehumidifier   | Connect plug to power socket  |
|  | Switch not turned on       | Switch on                     |
|  | E4 error is displayed      | Check drainage flow           |
| Dehumidifier collects little water       | Insufficient working time  | Allow more working time       |
|  | Filter is blocked          | Clean filter                  |
|  | Low ambient temperature    | Heat up the room              |
|  | Condensate hose is blocked | Check hose for restrictions   |
| dehumidifier operating, but room not dry | Doors and windows are open | Seal room from external areas |

| Error Code | Possible Cause                                     | Solution   |
|------------|--|--|
| E1         | Copper head sensor failure                         | Replace the copper head sensor   |
| E2         | Air inlet temperature and humidity sensor failure  | Replace the inlet temperature and humidity sensor  |
| E3         | Air outlet temperature and humidity sensor failure | Replace the outlet temperature and humidity sensor   |
| E4         | The pump reservoir is full due to drainage failure | Find the gravity drain outlet at the bottom of the unit and connect the emergency hose to drain. After emptying the reservoir, close the gravity drain hose and start the unit to check the pump function. |
|            | Water pump failure                                 | Replace the water pump   |
| E5         | 4-way valve failure                                | Replace the 4-way valve  |

If the problem you are experiencing is not listed here, contact our Service Team at [support@oulungroup.com](mailto:support@oulungroup.com) for further assistance.

## WARRANTY INFORMATION

LUKO offers a 1-year free warranty on all of our products, with original proof of purchase and where a defect has arisen, wholly or substantially, as a result of faulty manufacture, parts or workmanship during the warranty period.

The warranty does not apply where damage is caused by other factors, including without limitation:

- (a) normal wear and tear;
- (b) abuse, mishandling, accident, or failure to follow operating instructions;
- (c) exposure to liquid or infiltration of foreign particles;
- (d) servicing or modifications of the product other than by LUKO.

The LUKO warranty covers all costs related to restoring the proven defective product through repair or replacement of any defective part and necessary labor so that it conforms to its original specifications. A replacement product may be provided instead of repairing a defective product. LUKO's exclusive obligation under this warranty is limited to such repair or replacement.

We recommend that you register your product and extend your warranty to 2 years by emailing LUKO at [support@oulungroup.com](mailto:support@oulungroup.com). Although greatly appreciated, the product registration is not required to activate the initial 1-year warranty and product registration does not eliminate the need for the original proof of purchase.

These are our general terms for warranty service, but we always urge our customers to reach out to us with any issue, regardless of warranty terms. If you have an issue with a LUKO product, please contact us at [support@oulungroup.com](mailto:support@oulungroup.com), and we will do our best to resolve it for you.