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TCL TDW50EP20

TCL 50 Pint Portable Dehumidifier User Manual

Model: TDW50EP20 | Brand: TCL

1. Introduction

This user manual provides important information regarding the operation, maintenance, and troubleshooting of your TCL 50 Pint Portable Dehumidifier. Please read this manual thoroughly before using the appliance to ensure safe and efficient operation. This dehumidifier is designed to remove excess moisture from the air, helping to prevent mold, mildew, and improve overall air quality in extra large rooms and basements.



Image: Front view of the TCL 50 Pint Portable Dehumidifier.

2. Safety Information

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and injury.

- Ensure the dehumidifier is placed on a level, stable surface to prevent tipping and water spills.
- Do not operate the unit with a damaged cord or plug.
- Do not block air inlets or outlets. Maintain at least 8 inches (20 cm) clearance around the unit.
- Always unplug the dehumidifier before cleaning or performing any maintenance.
- Do not use the dehumidifier in areas where flammable liquids or gases are stored.

- Keep children and pets away from the operating unit.
- Empty the water bucket regularly or ensure continuous drainage is properly set up to prevent overflow.

3. Product Features

Your TCL 50 Pint Portable Dehumidifier comes equipped with several features designed for optimal performance and user convenience:

- **Precise Humidity Control and a 24-Hour Timer:** Allows for superior energy efficiency by maintaining desired humidity levels and scheduling operation.
- **Built-in Pump and 16ft (5m) Hose:** Enables continuous drainage, eliminating the need to manually empty the water bucket. The pump can lift water up to 16 feet in height.
- **Bucket Full Indicator and Audible Alarm:** Notifies you when the water collection bucket is full and needs to be emptied, preventing messy spills.
- **Auto Restart:** Automatically resumes operation with the last settings after a power outage.
- **Auto Defrost:** Protects the unit against low temperatures down to 5° C (41° F), preventing ice buildup on the coils.
- **Washable Air Filter:** Easy to clean and maintain, reducing the need for frequent replacements and ensuring cleaner air.
- **Electronic Controls with Child Lock:** User-friendly interface with a child lock feature to prevent accidental changes to settings.



Image: Top view of the control panel, showing electronic controls.

4. Setup

4.1 Unpacking and Placement

- Carefully remove the dehumidifier from its packaging. Retain packaging materials for future storage or transport.
- Place the unit upright on a firm, level surface in the area where dehumidification is needed.
- Ensure there is at least 8 inches (20 cm) of space on all sides of the unit for proper air circulation. Do not place it against a wall or furniture that would obstruct airflow.
- Install the included wheels by gently tilting the unit and inserting them into the designated slots at the bottom.



Image: Front view of the dehumidifier, illustrating its compact design and portability with wheels.

4.2 Drainage Options

Your dehumidifier offers two methods for water removal:

1. **Manual Emptying (Bucket):** The unit will collect water in its internal bucket. When the bucket is full, the "Bucket Full" indicator will illuminate, and an audible alarm will sound. Carefully remove the bucket and empty the collected water. Reinsert the bucket securely to resume operation.
2. **Continuous Drainage (Pump):** For extended operation without manual emptying, use the built-in pump.
    a. Locate the drain outlet on the back of the unit.
    b. Attach the provided 16ft (5m) drain hose to the pump drain outlet. Ensure a secure connection to prevent leaks.

c. Route the hose to a suitable drainage point, such as a sink, floor drain, or outside. The pump can lift water up to 16 feet vertically.
d. Ensure the hose is not kinked or blocked, which could impede drainage.



Image: Rear view of the dehumidifier, showing the air filter and drain outlet for continuous drainage.

5. Operating Instructions

5.1 Control Panel Overview

The control panel is located on the top of the unit and features intuitive electronic controls.

- **Power Button:** Turns the unit on or off.

- **Humidity Setting Buttons:** Adjust the desired humidity level (e.g., 35% to 85% relative humidity).
- **Mode Button:** Cycles through operating modes (e.g., Continuous, Basement, Bedroom).
- **Fan Speed Button:** Selects fan speed (High, Medium, Low).
- **Timer Button:** Sets the 24-hour on/off timer.
- **Pump Button:** Activates the internal pump for continuous drainage.
- **Child Lock Button:** Locks the control panel to prevent accidental changes.

5.2 Basic Operation

1. Plug the dehumidifier into a grounded electrical outlet.
2. Press the **Power** button to turn on the unit.
3. Use the **Humidity Setting** buttons to set your desired humidity level. The unit will operate until this level is reached, then cycle on and off to maintain it.
4. Select your preferred **Fan Speed**. Higher fan speeds result in faster dehumidification but may produce more noise.
5. To activate continuous operation, press the **Mode** button until "Continuous" is selected. In this mode, the unit will run continuously regardless of the humidity level.
6. If using the pump for continuous drainage, ensure the hose is properly connected and the **Pump** button is activated.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your dehumidifier.

6.1 Cleaning the Air Filter

- The "Clean Filter" indicator will illuminate after approximately 250 hours of operation.
- Unplug the dehumidifier from the power outlet.
- Remove the air filter from the back of the unit.
- Wash the filter with warm, soapy water. Rinse thoroughly and allow it to air dry completely before reinserting. Do not use a dishwasher.
- Once the filter is clean and dry, reinsert it into the unit.
- Plug in the unit and press the "Filter" button for 3 seconds to reset the filter timer.

6.2 Cleaning the Water Bucket

- Periodically clean the water bucket to prevent mold and mildew growth.
- Remove the bucket from the unit.
- Wash the bucket with warm water and a mild detergent. Rinse thoroughly.
- Ensure the bucket is completely dry before placing it back into the dehumidifier.

7. Troubleshooting

Problem	Possible Cause	Solution
Dehumidifier does not operate.	No power; Water bucket full or not properly inserted; Temperature too low.	Check power connection; Empty and reinsert water bucket; Ensure room temperature is above 41°F (5°C).
Unit runs but does not dehumidify.	Air filter clogged; Humidity setting too high; Room size too large.	Clean air filter; Lower humidity setting; Consider using multiple units for larger spaces.

Problem	Possible Cause	Solution
Water leaks from the unit.	Water bucket not properly seated; Continuous drain hose kinked or disconnected.	Ensure water bucket is securely in place; Check continuous drain hose for kinks or proper connection.
Unit is noisy.	Unit not on a level surface; Air filter clogged.	Place unit on a level surface; Clean air filter.

8. Specifications

Attribute	Value
Brand	TCL
Model Name	50 Pint (4,500 sq. ft.) Portable Dehumidifier
Model Number	TDW50EP20
Floor Area Coverage	4500 Square Feet
Capacity	50 Pints
Tank Volume	9.75 Liters
Color	Black
Item Weight	21.5 Pounds
Product Dimensions (L x W x H)	12.01 x 15.04 x 25.2 inches
Wattage	500 Watts
Special Features	Automatic Defrost, Automatic Restart, Bucket Full Indicator, Pump and Hose included
Recommended Use	Residential
Assembly Required	Yes

9. Warranty and Support

This TCL Dehumidifier comes with a **1-year limited warranty** from the date of purchase. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official TCL support website.
For technical assistance, troubleshooting, or to inquire about replacement parts, please contact TCL Customer Support:

- **Website:** www.tcl.com/us/en/support
- **Phone:** Refer to your product registration card or the TCL website for the most current contact number.

Please have your model number (TDW50EP20) and purchase date available when contacting support.

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