

EUHOMY DH-50

Euhomy DH-50 4500 Sq.Ft Energy Star Dehumidifier Instruction Manual

1. PRODUCT OVERVIEW

The Euhomy DH-50 Dehumidifier is an Energy Star-certified appliance designed to efficiently remove excess moisture from indoor environments. Capable of extracting up to 50 pints of moisture per day (72 pints based on 2019 DOE standards, or 110 pints at 86°F 80% humidity), it is suitable for spaces up to 4,500 square feet. This unit features intelligent controls, multiple operation modes, and flexible drainage options to enhance user convenience and maintain optimal humidity levels.



Figure 1: Front view of the Euhomy DH-50 Dehumidifier, showcasing its compact design and continuous drain hose connection.

2. KEY FEATURES

- **High Capacity:** Removes up to 50 pints/day (DOE 2012) or 110 pints/day (86°F 80% RH), covering up to 4,500 sq. ft.
- **Energy Star Certified:** Designed for energy efficiency, reducing electricity consumption.
- **Intelligent Controls:** Features adjustable humidity levels, fan speeds, and a 24-hour timer. Includes automatic shut-off, auto-restart, and defrost functions.

- **Four Operation Modes:** SET (customizable humidity 35-80%), COMFORT (automatic ideal humidity), DRYER (accelerates clothes drying), and CONT (continuous moisture control).
- **Dual Drainage Options:** Equipped with a 1.59-gallon water tank with auto shut-off and indicator light, or continuous drainage via a 39.37-inch drain hose.
- **User-Friendly Design:** Includes side handles, 360° rotatable wheels for easy mobility, a washable filter, and an adjustable power cord strap for organization.
- **Space-Saving Design:** Long and flat profile allows for placement in narrow spaces, such as between furniture and walls.

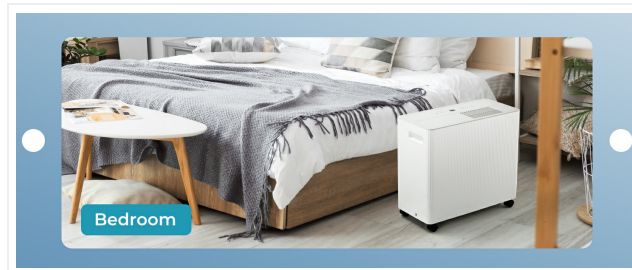


Figure 2: The Euhomy DH-50 Dehumidifier operating in a living room, highlighting its Energy Star certification and efficient performance.

3. SETUP INSTRUCTIONS

3.1 Unpacking and Placement

1. Carefully remove the dehumidifier from its packaging.
2. Attach the four included casters to the bottom of the unit for easy mobility.
3. Place the dehumidifier on a level surface in the desired location, ensuring at least 8 inches of space around the unit for proper airflow.

3.2 Drainage Options

The DH-50 offers two methods for water removal:

A. Water Tank Drainage (Manual)

- The unit comes with a 1.59-gallon water tank.
- When the tank is full, the dehumidifier will automatically shut off and an indicator light will illuminate.
- Carefully pull out the water tank, empty it, and reinsert it into the unit.

B. Continuous Drainage (Hose Connection)

- For continuous operation without manual emptying, attach the provided 39.37-inch drain hose.
- Locate the drain outlet on the side of the unit.
- Remove the rubber plug from the drain hole.
- Firmly insert one end of the drain hose into the outlet.
- Route the other end of the hose to a suitable drain (e.g., floor drain, sink), ensuring it is sloped downwards to allow gravity to drain the water. Avoid kinks or blockages in the hose.



Figure 3: Illustration of the two flexible drainage options: the large capacity water bucket and the continuous water hose drainage.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The dehumidifier features an intuitive control panel located on the top of the unit. It includes buttons for power, mode selection, fan speed, humidity adjustment, and timer settings.



Figure 4: Close-up of the smart control panel, detailing buttons for Timer, Mode, Fan, and On/Off, along with humidity display.

4.2 Power On/Off

- Press the **On/Off** button to turn the unit on or off.

4.3 Mode Selection

Press the **Mode** button to cycle through the four available operation modes:

- **SET Mode:** Allows you to customize the desired humidity level between 35% and 80% Relative Humidity (RH). Use the Up/Down arrows to adjust.
- **COMFORT Mode:** The dehumidifier automatically maintains an ideal humidity level for a comfortable living environment.
- **DRYER Mode:** Accelerates the drying process for clothes or other damp items.
- **CONT Mode:** Provides continuous dehumidification, ideal for managing persistent dampness.

4.4 Fan Speed Adjustment

- Press the **Fan** button to switch between low and high fan speeds.

4.5 Timer Setting

- Press the **Timer** button to set an automatic shut-off time, from 1 to 24 hours. The unit will turn off once the set time has elapsed.

4.6 Automatic Functions

- **Auto Shut-off:** Activates when the water tank is full or the set humidity level is reached.
- **Auto-Restart:** The unit will automatically restart with previous settings after a power outage.
- **Defrost Function:** Automatically engages to prevent frost buildup on the coils, ensuring efficient operation in cooler temperatures.

Video 1: An overview of the Euhomy Dehumidifier's features and benefits for home use, including its various modes and smart functions.

5. MAINTENANCE

5.1 Cleaning the Air Filter

The washable air filter should be cleaned monthly to ensure optimal performance and air quality.

1. Turn off and unplug the dehumidifier.
2. Locate the filter cover on the back of the unit.
3. Remove the filter cover and carefully slide out the filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly.
5. Allow the filter to air dry completely before reinserting it.
6. Replace the filter cover.

5.2 Cleaning the Water Tank

Regular cleaning of the water tank helps prevent mold and mildew growth.

1. Turn off and unplug the dehumidifier.
2. Remove the water tank from the unit.
3. Clean the tank with warm water and a mild detergent.
4. Rinse thoroughly and dry before placing it back into the dehumidifier.



Figure 5: Step-by-step guide on removing and emptying the water tank for maintenance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Dehumidifier does not turn on.	No power supply; Water tank full or incorrectly placed; Temperature too low.	Check power connection; Empty and correctly reinsert water tank; Ensure room temperature is above 41°F (5°C).
No water collected.	Humidity level too low; Room temperature too low; Air filter clogged; Drain hose blocked.	Adjust desired humidity setting; Ensure room temperature is adequate; Clean air filter; Check drain hose for kinks or blockages.
Unit is noisy.	Unit not on a level surface; Air filter clogged.	Place unit on a flat, stable surface; Clean air filter.
Airflow is weak.	Air filter clogged; Air inlet/outlet blocked.	Clean air filter; Ensure air inlet/outlet are clear of obstructions.

7. SPECIFICATIONS

- **Brand:** EUHOMY
- **Model Name:** DH-50 (50 Pint 4,500 sq ft Dehumidifier)
- **Dehumidification Capacity:** 50 Pints per Day (DOE 2012 Standard)
- **Coverage Area:** Up to 4,500 sq. ft.
- **Water Tank Capacity:** 1.59 Gallons
- **Product Dimensions:** 19.09"D x 9.91"W x 18.9"H
- **Item Weight:** 41.4 Pounds
- **Wattage:** 650 watts
- **Operation Mode:** Automatic
- **Special Feature:** Automatic Shutoff
- **Included Components:** 4*Caster
- **UPC:** 850067168522

8. WARRANTY AND SUPPORT

Euhomy offers a one-year warranty on the DH-50 Dehumidifier to ensure customer satisfaction. For any issues during installation or operation, please contact our dedicated support team. Your comfort and satisfaction are our top priorities. Contact information for support can typically be found in the product packaging or on the official Euhomy website.