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› [BLACK+DECKER 1500 Sq. Ft. Dehumidifier for Medium to Large Spaces and Basements, Energy Star Certified, BD22MWSA Instruction Manual](#)

BLACK+DECKER BD22MWSA

BLACK+DECKER 1500 Sq. Ft. Dehumidifier Instruction Manual

MODEL: BD22MWSA

1. Important Safety Information

Please read and understand all safety information before using this appliance. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always plug the dehumidifier into a grounded 3-prong outlet.
- Do not operate the dehumidifier with a damaged power cord or plug.
- Ensure the unit is placed on a level, stable surface to prevent tipping.
- Keep the air intake and exhaust grilles clear of obstructions.
- Do not immerse the unit, power cord, or plug in water or other liquids.
- Unplug the unit before cleaning or performing any maintenance.

2. Product Overview

The BLACK+DECKER BD22MWSA Dehumidifier is designed to efficiently remove excess moisture from medium to large spaces and basements, covering up to 1500 square feet (2012 DOE Standards) or 280 square feet (2019 DOE Standards). It features an Energy Star certification for energy efficiency.



Figure 2.1: Front view of the BLACK+DECKER 1500 Sq. Ft. Dehumidifier.

Overflow Protection + Audible Alert

Auto shut off when water tank is full



Figure 2.2: Dehumidifier dimensions (15.2"W x 10.24"D x 19.69"H) and 22-pint daily capacity.

3. Setup and Installation

Follow these steps for proper setup of your dehumidifier:

1. **Unpacking:** Carefully remove the dehumidifier from its packaging. Retain packaging materials for future storage or transport.

2. **Placement:** Place the unit on a firm, level floor in the area where dehumidification is desired. Ensure there is at least 8 inches of air space on all sides for proper air circulation. The unit is portable and includes 4 casters/rollers for easy mobility.
3. **Power Connection:** Plug the 3-prong power cord into a grounded 115V~/60Hz electrical outlet.
4. **Water Tank:** The unit comes with a detachable 3L/6.34-pint removable water tank. Ensure it is properly seated before operation.
5. **Continuous Drainage (Optional):** For continuous operation without emptying the tank, attach a standard garden hose (not included) to the continuous gravity feed drain port located at the rear of the unit. The drain hose should be 1.64 ft. long with a 0.31 in. diameter. Ensure the hose is sloped downwards to allow for gravity drainage.



Continuous Drainage

includes 1.64 ft. drain hose

Figure 3.1: Easy-to-use design featuring a detachable bucket, recessed handles, and casters for convenient movement.



Figure 3.2: Setup for continuous drainage using a standard garden hose.

4. Operating Instructions

Your BLACK+DECKER dehumidifier features a top-mounted electronic control panel for easy operation.

Electronic Control Panel

with adjustable humidistat

(relative humidity from 35-85%)



Figure 4.1: Electronic control panel with LED digital display for adjustable humidistat (relative humidity from 35-85%).

- **Power On/Off:** Press the Power button to turn the unit on or off.
- **Setting Humidity:** Use the up and down arrows on the control panel to set your desired humidity level. The adjustable humidistat allows settings from 35% to 85% relative humidity. The LED digital display will show the current and target humidity.
- **Fan Speed:** Select between Low and High fan speeds using the Fan Speed button.
- **Timer Function:** Utilize the 24-hour on/off timer to program the unit to start or stop at specific times.

- **Auto Defrost & Auto Restart:** The unit is equipped with auto defrost to prevent ice build-up on the coils and auto restart functionality, which allows it to resume operation at previous settings after a power outage.
- **Full Bucket Indicator:** An indicator light and audible alert system will notify you when the water bucket is full. The dehumidifier will automatically shut off to prevent overflow.



Figure 4.2: The dehumidifier is capable of extracting up to 22 pints of water per day and is suitable for spaces up to 1500 sq. ft. (2012 DOE Standards).

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your dehumidifier.

- **Emptying the Water Tank:** When the full bucket indicator light illuminates and an audible alert sounds,

carefully remove the water tank from the front of the unit and empty its contents. Reinsert the tank securely.

- **Cleaning the Air Filter:** The dehumidifier features a removable, washable mesh filter. Periodically remove the filter from the rear of the unit and clean it with warm, soapy water. Rinse thoroughly and allow it to air dry completely before reinserting.

Washable Filter

easily remove for cleaning



Figure 5.1: The washable mesh filter can be easily removed for cleaning, ensuring efficient air purification.

- **Unit Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

- **Storage:** If storing the unit for an extended period, ensure the water tank is empty and the filter is clean and dry. Store in a cool, dry place.

6. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Dehumidifier does not turn on.	No power; Water tank full or improperly seated.	Check power connection; Empty and re-seat water tank.
Unit runs but does not dehumidify.	Air filter clogged; Room temperature too low; Humidity setting too high.	Clean air filter; Ensure room temperature is within operating range (41° - 89.9°F); Lower humidity setting.
Unit is noisy.	Unit not on a level surface; Air filter clogged.	Place unit on a level surface; Clean air filter.
Water leaks from the unit.	Water tank improperly seated; Continuous drain hose not properly connected or clogged.	Re-seat water tank; Check continuous drain hose for proper connection and clear any blockages.

7. Specifications

Feature	Specification
Brand	BLACK+DECKER
Model Name	Dehumidifier for Medium to Large Spaces and Basements
Model Number	BD22MWSA
Floor Area Coverage	1500 Square Feet (2012 DOE Standards) / 280 Square Feet (2019 DOE Standards)
Dehumidification Capacity	22 Pints per Day
Tank Volume	0.8 Gallons (3L / 6.34 Pints)
Product Dimensions (DxWxH)	10.24"D x 15.2"W x 19.69"H
Item Weight	33.1 Pounds
Power Supply	115V~/60Hz
Wattage	250 watts
Refrigerant	R410A (5.29 oz)

Feature	Specification
Operating Temperature Range	41°F - 89.9°F
Special Features	Adjustable Humidity Control, Automatic Moisture Removal, Digital Display, Portable, Water Level Indicator, Auto Defrost, Auto Restart, 24-hour Timer, Washable Filter
Certifications	Energy Star, UL Certified Most Efficient 2020

8. Warranty and Support

Warranty Description: This product comes with a 1-year warranty covering labor and parts for manufacturing defects only.

For technical support, troubleshooting assistance, or warranty claims, please contact BLACK+DECKER customer service. Refer to the contact information provided in your product packaging or visit the official BLACK+DECKER website for the most up-to-date support details.