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Blauwhal PD14BS-B

Blauwhal 150 Pints Dehumidifier with Pump

Model: PD14BS-B - Instruction Manual

1. Introduction

This manual provides essential information for the safe and efficient operation of your Blauwhal 150 Pints Dehumidifier with Pump. Please read it thoroughly before initial use and retain it for future reference. This dehumidifier is designed to effectively remove excess moisture from large areas, improving air quality and preventing issues related to high humidity.



Figure 1: Front view of the Blauwhal 150 Pints Dehumidifier.

2. Safety Information

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and injury. This unit is for indoor use only.

- Ensure the power supply matches the voltage requirements of the unit.
- Do not operate the dehumidifier with a damaged cord or plug.
- Keep the unit at least 7-8 inches (18-20 cm) away from walls and other objects to ensure proper airflow.
- Do not block air inlets or outlets.
- Always unplug the unit before cleaning or performing any maintenance.
- Do not use the unit in areas where flammable liquids or gases are stored.
- Keep out of reach of children.

3. Package Contents

Verify that all items are present in the package:

- Blauwhal 150 Pints Dehumidifier Unit
- Air Filter (pre-installed)
- Drain Hose (16.4' pump hose)
- Gravity Drain Hose (3.28')
- Water Tank (2.11 Gallons / 8 Liters)
- User Manual (this document)

4. Product Overview

The Blauwhal 150 Pints Dehumidifier is designed for high-efficiency moisture removal in spaces up to 8,000 sq. ft. It features an intelligent control panel, multiple drainage options, and quiet operation.

4.1. Key Features

- **High-Performance Chip:** Supports auto-defrost, power-off memory, timer, child lock, and overload protection.
- **Efficient Compressor:** Utilizes a cutting-edge high-efficiency rotary compressor with 8mm diameter pure copper pipes.
- **Adjustable Humidity:** Settings from 30% RH to 80% RH.
- **Three Drainage Options:** Built-in pump, water tank, and gravity drainage.
- **Smart Touch Control:** Digital display for real-time humidity monitoring.
- **Swing Function:** Adjustable swing angle (40°~80°) for efficient air distribution.
- **Three Wind Speeds:** High, medium, and low fan settings.

4.2. Control Panel

The control panel is located on the top of the unit and features feather-touch buttons and a digital display.



Figure 2: Top-down view of the control panel.

- **Pump Button:** Initiates or stops the pump drainage. Hold for 3 seconds to activate.
- **Lock Button:** Activates/deactivates child lock. Hold for 3 seconds to lock the settings.
- **Speed Button:** Toggles between Low, Medium, and High fan speeds.
- **Swing Button:** Activates/deactivates the automatic swing of the air outlet.
- **Humi Button:** Adjusts the desired humidity level (30% to 80% RH).
- **Mode Button:** Selects operating modes (Dehumidify, Dry, Continuous).
- **Timer Button:** Sets a 1-24 hour timer for automatic power on/off.

- **Power Button:** Turns the unit On or Off.

4.3. Back Panel and Water Tank

The back of the unit houses the air filter and the water tank.



Figure 3: Rear view of the dehumidifier with filter and drainage port.

- **Air Filter:** Easily removable for cleaning.
- **Drainage Port:** For connecting the gravity or pump drain hoses.
- **Water Tank:** Removable 2.11-gallon tank with a visible water level indicator.

5. Setup

Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the dehumidifier from its packaging. Remove all protective film and tape.
2. **Placement:** Place the unit on a flat, stable surface. Ensure there is at least 7-8 inches (18-20 cm) of space around all sides for optimal airflow. Avoid placing it directly against a wall or in a confined space.
3. **Power Connection:** Plug the power cord into a grounded electrical outlet.
4. **Initial Power On:** Press the Power button to turn on the unit. The digital display will show the current humidity level.



Figure 4: Dehumidifier showing high-efficiency moisture removal in a large area.

6. Operating Instructions

Your Blauwhal dehumidifier offers various settings to customize its operation.

6.1. Setting Humidity Level

- Press the **Humi** button to cycle through desired humidity levels from 30% RH to 80% RH.
- The unit will automatically operate to maintain the set humidity level.

6.2. Selecting Operating Mode

Press the **Mode** button to switch between the following modes:

- **Dehumidify Mode (DEHU):** Standard operation for moisture removal.
- **Dry Mode (DRY):** Designed for drying clothes or faster dehumidification.
- **Continuous Mode (CONT):** Runs continuously regardless of humidity level.



Figure 5: Dehumidifier operating modes for various needs.

6.3. Adjusting Fan Speed

Press the **Speed** button to select between Low, Medium, and High fan speeds.

6.4. Using Swing Function

Press the **Swing** button to activate or deactivate the automatic oscillation of the air outlet. The swing angle is between 40° and 80° for optimal air distribution.

6.5. Setting the Timer

The timer function allows you to set a specific duration for the unit to turn on or off.

- **To set Power-On Timer:** With the unit OFF, press the **Timer** button and then use the **Humi** button to set the desired hours (1-24).
- **To set Power-Off Timer:** With the unit ON, press the **Timer** button and then use the **Humi** button to set the desired hours (1-24).



Figure 6: Dehumidifier with timer function for scheduled operation.

6.6. Child Lock

To prevent accidental changes to settings, activate the child lock.

- Hold the **Lock** button for 3 seconds to activate or deactivate the child lock.
- When activated, the control panel buttons will not respond to touches.



Figure 7: Dehumidifier with child lock for safety.

7. Drainage Options

Your dehumidifier offers three convenient ways to remove collected water:

7.1. Water Tank Drainage

- The unit collects water in its internal 2.11-gallon (8-liter) water tank.
- When the tank is full, the unit will automatically shut off and an indicator light will illuminate.
- To empty, gently pull out the water tank from the rear of the unit using both sides.
- Carry the tank to a sink or drain and pour out the collected water.
- Slide the empty tank back into the unit until it clicks into place.

7.2. Gravity Drainage

- For continuous drainage without emptying the tank, use the provided 3.28' gravity drain hose.
- Unscrew the white outlet stopper on the back of the unit.
- Connect the gravity drain hose to the outlet. Ensure the hose is placed horizontally and free of kinks, leading to a lower drain point (e.g., floor drain).

7.3. Pump Drainage

- The built-in pump allows water to be drained upwards or over longer distances using the 16.4' pump hose.
- Connect the thin pump hose to the designated interface on the back of the unit.
- Direct the other end of the hose to a suitable drain location (e.g., sink, window, up to 10 feet high).
- Press and hold the **Pump** button for 3 seconds to activate the pump. The pump will run for 12 minutes continuously, then shut off automatically.
- The pump can be manually activated when the water tank is full or at any time for forced drainage.



Figure 8: Visual guide to the three drainage methods.

Video 1: Detailed demonstration of the Blauwhal Dehumidifier's pump function and drainage options.

8. Maintenance

Regular maintenance ensures optimal performance and longevity of your dehumidifier.

8.1. Cleaning the Air Filter

The air filter should be cleaned every two weeks or more frequently depending on usage and air quality.

1. Turn off and unplug the dehumidifier.
2. Gently pull the filter cover from the top rear of the unit.
3. Remove the filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly.
5. Allow the filter to air dry completely before re-installing.
6. Place the dry filter back into the unit and close the cover.



Figure 9: Washable filter for easy maintenance.

8.2. Cleaning the Water Tank

Clean the water tank periodically to prevent mold and mildew growth.

1. Turn off and unplug the dehumidifier.
2. Remove the water tank as described in Section 7.1.
3. Wash the tank with warm, soapy water. For stubborn residue, a mild disinfectant can be used.
4. Rinse thoroughly and allow to air dry completely before re-installing.

9. Troubleshooting

If you encounter issues with your dehumidifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, power cord unplugged, water tank full or incorrectly installed.	Check power connection, empty and re-install water tank correctly.
No water collected.	Humidity level too low, ambient temperature too low, air filter clogged.	Adjust desired humidity, ensure room temperature is above 41°F (5°C), clean air filter.
Unit is noisy.	Unit not on a level surface, air filter clogged.	Place on a level surface, clean air filter.
Pump indicator lights behave abnormally (e.g., both on solid).	Possible pump malfunction or sensor issue.	Ensure pump hose is correctly connected and clear. If issue persists, contact customer support.

If the problem persists after trying these solutions, please contact Blauwhal customer support.

10. Specifications

Feature	Detail
Brand	Blauwhal
Model Name	PD14BS-B
Dehumidification Capacity	150 Pints/Day (under 95°F, 90% RH conditions) / 22.5 Gallons per Day
Coverage Area	Up to 8000 Square Feet
Water Tank Capacity	2.11 Gallons (8 Liters)
Humidity Settings	30% RH to 80% RH

Feature	Detail
Fan Speeds	High, Medium, Low
Product Dimensions	14"D x 10"W x 24"H
Item Weight	47.3 pounds
Material	Metal, Plastic
Wattage	150 watts
Special Features	Adjustable Humidity Control, Automatic Defrost, Built-In Pump, Continuous Draining, Quiet Operation, Child Lock, Timer, Power-off Memory

11. Warranty and Support

Blauwhal is committed to providing high-quality products and customer satisfaction.

- **Certification:** FCC and CSA certified.
- **Money-Back Guarantee:** 30-days money back if not satisfied.
- **Warranty:** 1-year full warranty, with an option for a 2nd-year warranty extension.
- **Technical Support:** Lifetime expert technical support.
- **Contact:** For any questions or issues, please contact Blauwhal customer service. We aim to reply within 24 hours.



Figure 10: Blauwhal commitment to quality and customer support.

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