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## ALORAIR Storm 80X

# ALORAIR Storm 80X Commercial Dehumidifier User Manual

Model: Storm 80X

## 1. PRODUCT OVERVIEW

The ALORAIR Storm 80X is a commercial-grade dehumidifier designed for efficient moisture removal in large spaces up to 2,100 square feet. It is capable of removing up to 170 pints of water per day at saturation (90°F, 90% RH) and 80 PPD at AHAM conditions. This unit features a robust rotomolded housing for durability, a built-in condensate pump for continuous drainage, and an intuitive control panel for easy operation.



Figure 1: ALORAIR Storm 80X Dehumidifier with retractable handle.

### Key Features:

- **High Efficiency:** Removes up to 170 PPD (saturation) / 80 PPD (AHAM) with a COP performance of 2.4 L/KWh.
- **Large Coverage Area:** Effective in spaces up to 2,100 square feet.
- **Built-in Condensate Pump:** Automatically drains water, eliminating manual emptying. Includes a 19.6 ft drain hose and 19.6 ft drain vertical height.
- **Rotomolded Durability:** Impact-resistant and warp-proof housing for reliable operation in challenging environments.
- **Portable Design:** Compact dimensions (15.2"D x 14.4"W x 24.8"H) with large wheels and a retractable handle for easy transport.
- **Smart Control Panel:** Features AUTO ON/OFF, Memory Starting, Auto Defrost, and real-time display of inlet/outlet temperature and humidity.

- **Automatic Defrost:** Prevents frost buildup on coils, ensuring continuous operation and energy efficiency.
- **Easy Maintenance:** Washable MERV-1 filter for protection of internal components.

## 2. IMPORTANT SAFETY INFORMATION

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Read all instructions carefully before operating the dehumidifier. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always connect the unit to a properly grounded electrical outlet.
- Do not operate the unit with a damaged power cord or plug.
- Ensure the unit is placed on a stable, level surface to prevent tipping.
- Keep children and pets away from the unit during operation.
- Do not block air inlets or outlets. Maintain adequate clearance around the unit for proper airflow.
- Disconnect power before performing any maintenance or cleaning.
- Do not use the unit in areas where flammable liquids or gases are stored.
- This appliance is not intended for use 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 concerning use of the appliance by a person responsible for their safety.

## 3. SETUP AND INSTALLATION

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### 3.1 Unpacking the Unit

Carefully remove the dehumidifier from its packaging. Inspect the unit for any signs of damage during transit. Retain packaging materials for future storage or transport.

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Video 1: Unboxing and initial setup of the ALORAIR Storm 80X Dehumidifier.

### 3.2 Handle Assembly

The retractable handle is designed for easy mobility. To extend the handle, loosen the two knobs on the sides, pull the handle upwards, and then tighten the knobs to secure it in place. To retract, reverse the process.



Figure 2: The retractable handle and large wheels facilitate easy movement of the unit.

### 3.3 Drain Hose Connection

Connect the provided 19.6 ft drain hose to the quick-connect fitting at the bottom rear of the unit. Ensure a secure connection to prevent leaks. Route the hose to a suitable drainage point, such as a floor drain or sink, ensuring the hose is not kinked or obstructed. The built-in pump can lift water up to 19.6 feet vertically.



# Built-in Condensate Pump

Allows you to drain out the water everywhere



Drain Hose  
Length: **19.6 Ft**

Pump Drainage  
Height: **19.6 Ft**

Figure 3: Drain hose connection and pump drainage height capability.

## 3.4 Power Connection

Plug the dehumidifier into a standard 115V grounded electrical outlet. The power cord can be neatly coiled and stored on the back of the unit when not in use or for transport.

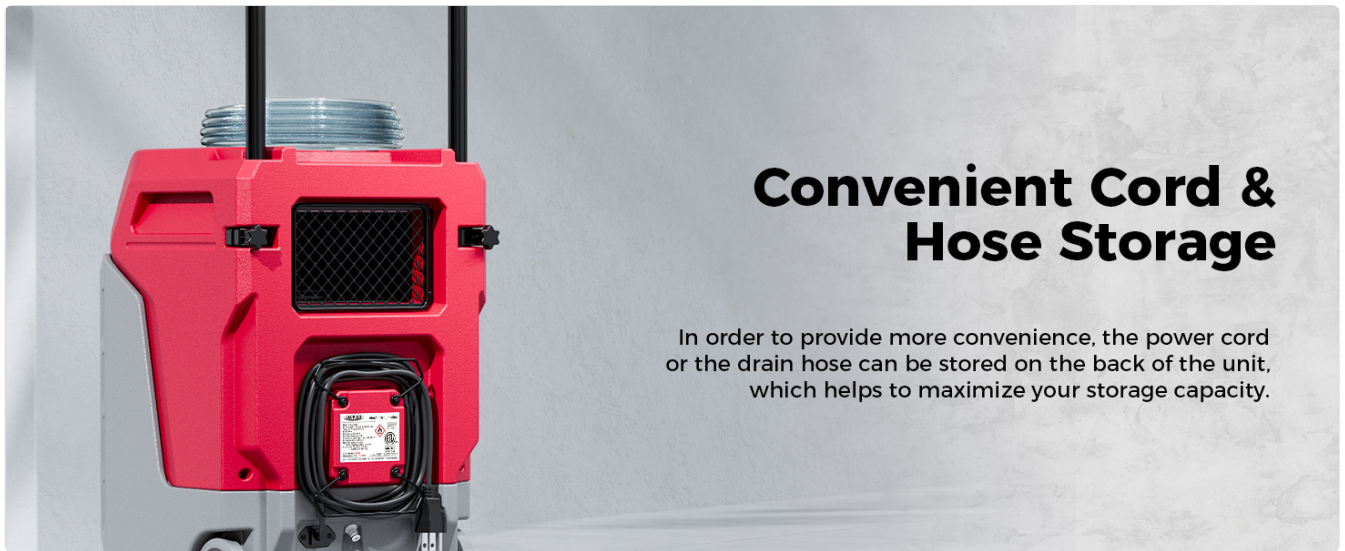


Figure 4: Rear view of the dehumidifier showing integrated cord and hose storage.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Control Panel Overview

The Storm 80X features an intelligent touch control panel. It displays real-time inlet and outlet temperature, humidity, job hours, and total life hours. Buttons include Power, Purge, Menu, and Set.

# Easy Operation & Monitoring

Display Temp and Humidity at Both Inlet and Outlet



Figure 5: Detailed view of the intelligent touch control panel.

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Video 2: Demonstration of the control panel and its functions.

## 4.2 Setting Desired Humidity

1. Press the 'Set' button to enter humidity adjustment mode.
2. Use the arrow buttons to increase or decrease the desired humidity percentage (25% to 80%).
3. The unit will automatically operate to maintain the set humidity level.

## 4.3 Continuous Mode

To operate the dehumidifier continuously, set the humidity level to 'CO%' (Continuous Mode) using the 'Set' and arrow buttons. In this mode, the unit will run constantly, removing moisture without stopping based on a set humidity level.

## 4.4 Automatic Features

- **AUTO ON/OFF:** The unit will automatically turn on or off based on the set humidity level.
- **Memory Starting:** In case of a power outage, the unit will restart with the last settings once power is restored.

- **Auto Defrost:** The system monitors ambient temperature and initiates a defrost cycle when low temperatures are detected, preventing ice buildup on coils. The compressor pauses while the fan continues, then resumes normal operation.

## 5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your ALORAIR Storm 80X dehumidifier.

### 5.1 MERV-1 Filter Cleaning/Replacement

The unit is equipped with a washable MERV-1 filter. It is recommended to clean the filter every three months or more frequently depending on usage and environment. Replace the filter after two cleanings or as needed.

1. Disconnect the unit from power.
2. Locate the filter access panel on the front of the unit.
3. Remove the filter.
4. Clean the filter with warm water and mild detergent, or vacuum it. Allow it to dry completely before reinstallation.
5. Reinsert the clean filter and secure the access panel.

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Video 3: Instructions for replacing the MERV-1 filter.

### 5.2 Drain System Maintenance

Periodically check the drain hose for any blockages or kinks. Ensure the condensate pump is functioning correctly by observing water flow during operation. The 'Purge' button on the control panel can be used to manually activate the pump and clear any residual water.

## 6. TROUBLESHOOTING

If the unit is not operating correctly, refer to the following common issues before contacting support.

Problem	Possible Cause	Solution
Unit does not turn on	No power, power cord disconnected, circuit breaker tripped.	Check power connection, ensure outlet is functional, reset circuit breaker.
No dehumidification	Humidity setting too high, filter clogged, room temperature too low.	Lower humidity setpoint, clean/replace filter, ensure room temperature is within operating range (35.6°F - 102.2°F).
Water leakage	Drain hose kinked or clogged, drain connection loose.	Inspect and clear drain hose, ensure secure connection.
Unit is noisy	Unit not on a level surface, fan obstruction.	Place unit on a level surface, check for and remove any obstructions.
Error code on display	Internal malfunction detected.	Refer to the full user manual for specific error code definitions or contact customer support.

## 7. SPECIFICATIONS

Feature	Specification
Brand	ALORAIR



Feature	Specification
Model Name	Storm 80X
Dehumidification Capacity (Saturation)	170 Pints per Day
Dehumidification Capacity (AHAM)	80 PPD
Coverage Area	Up to 2,100 Square Feet
Air Flow Capacity	200 Cubic Feet Per Minute (CFM)
Operating Temperature Range	35.6°F - 102.2°F
Operating Humidity Range	25% - 80% RH
Power Consumption	607 Watts
Product Dimensions (L×W×H)	15.2"D x 14.4"W x 24.8"H
Item Weight	63.9 Pounds
Drain Hose Length	19.6 ft
Drain Vertical Height	19.6 ft
Filter Type	MERV-1
Certifications	ETL Listed

## 8. WARRANTY AND SUPPORT

ALORAIR provides a comprehensive warranty for the Storm 80X dehumidifier:

- **6-Month Parts and Labor:** Includes shipment charges for replacement parts or unit.
- **1-Year Parts and Labor:** Excludes shipment charges to send the defective product back for repair or replacement.
- **3-Year Parts and Labor:** Coverage for the refrigeration system only.
- **5-Year Compressor and Coil:** Limited warranty.

For additional warranty information or technical support, please refer to the full product user manual or contact ALORAIR customer service.