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› ALORAIR Sentinel HD90 Crawl Space Dehumidifier User Manual

ALORAIR Sentinel HD90

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USER MANUAL

1. Introduction

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your ALORAIR Sentinel HD90 Crawl Space Dehumidifier. The Sentinel HD90 is designed to reduce excess moisture in various environments, including crawl spaces, basements, storage areas, garages, and large rooms, helping to protect your property from moisture-related issues.

This bundle includes the Sentinel HD90 dehumidifier along with an Indoor Mechanical Light Timer, a Portable LED Work Light, and an Extension Cord Organizer to enhance convenience during use and installation.



Figure 1: ALORAIR Sentinel HD90 Dehumidifier and Accessories

The ALORAIR Sentinel HD90 is capable of removing 90 pints of moisture per day under AHAM (60% RH, 80°F) conditions, and up to 198 pints at saturation, covering areas up to 2,600 sq. ft.

2. Safety Information

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

- Always ensure the unit is properly grounded.
- Do not operate the unit with a damaged power cord or plug.
- Do not insert objects into the air inlet or outlet.
- Keep the unit away from water and other liquids.
- Unplug the unit before cleaning or performing any maintenance.
- 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

3.1 Placement

Place the dehumidifier on a level surface in the desired location. Ensure there is adequate space around the unit for proper airflow (at least 1 foot clearance from walls or obstructions). The unit is designed for use in crawl spaces, basements, and other enclosed areas requiring moisture control.



Figure 2: Dehumidifier Placement and Optional Control Panel

3.2 Drainage Connection

The Sentinel HD90 features continuous drainage. Connect the provided drain hose to the drainage outlet on the unit. Ensure the hose is sloped downwards to allow gravity to drain the collected water to a suitable drain or pump. Avoid kinks or obstructions in the drain hose.

3.3 Electrical Connection

Plug the dehumidifier into a grounded electrical outlet. Verify that the power supply matches the voltage requirements specified on the unit's label.

3.4 Adjustable Leveling Feet

The unit is equipped with adjustable leveling feet. Use these to ensure the dehumidifier is stable and level on uneven surfaces, which is crucial for proper drainage and operation.

4. Operating Instructions

4.1 Powering On/Off

To power on the unit, press the power button. Press it again to turn the unit off.

4.2 Setting Desired Humidity

Use the control panel to set your desired humidity level. The unit will operate until the ambient humidity reaches the set point, then cycle off. It will restart automatically when humidity rises above the set point.

4.3 Key Features

- **Auto Operation:** The unit turns ON and OFF automatically based on the set humidity level.
- **Auto Defrost:** An advanced auto-defrosting system continuously monitors ambient temperature. If low temperatures are detected, the unit initiates an automatic defrost cycle to prevent frost buildup. During this cycle, the compressor temporarily stops while the fan continues to operate, allowing frost to thaw. Once complete, normal operation resumes. This feature conserves energy and extends the unit's lifespan.
- **Memory Restart:** In the event of a power interruption, the unit will automatically restart with the previous settings once power is restored.
- **Easy Mobility:** Designed with handles for convenient transport.



Auto Operation

Turns ON and OFF Automatically



Auto Defrost

Prevents Coils from Freezing



Memory Restart

Picks Up Where It Left Off



Easy Mobility



Adjustable Leveling Feet



Figure 3: Key Operational Features

4.4 Using Included Accessories

The bundle includes additional accessories to assist with your dehumidification needs:

- **Indoor Mechanical Light Timer:** This programmable timer allows you to schedule the operation of the dehumidifier or other appliances. It operates in 30-minute intervals over a 24-hour cycle.
- **Portable LED Work Light:** Provides illumination for working in dark areas like crawl spaces or basements.
- **Extension Cord Organizer:** Helps manage and secure extension cords, reducing clutter and trip hazards.

ACCESSORIES PACKAGE

Indoor Mechanical
Light Timer ×1

Extension Cord
Organizer ×1

Portable LED
Work Light ×1



Figure 4: Included Accessories Package



APPLICABLE TO VARIOUS APPLIANCES



Coffee Machine



Electric Fan



Water Dispenser



Electric Kettle



Electric Light



Air Conditioner



Figure 5: Mechanical Timer Operation

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your dehumidifier. Always unplug the unit before performing any maintenance.

5.1 Filter Cleaning

The air filter should be checked and cleaned monthly, or more frequently depending on the operating environment. A dirty filter restricts airflow and reduces efficiency.

1. Locate and remove the air filter.
2. Clean the filter with warm, soapy water or vacuum it to remove dust and debris.
3. Allow the filter to dry completely before reinstalling.

5.2 Coil Cleaning and Internal Corrosion Protection

The Sentinel HD90 features internal corrosion protection, an advanced technology designed to minimize corrosion and refrigerant leakage. This innovation extends the life of the coils by providing protection against oxidation, hydroxide, or sulfide buildup, maintaining the coil's heat transferability. While this technology reduces the need for frequent coil cleaning, periodic inspection is still recommended. If coils appear dirty, consult a qualified technician for cleaning.

5.3 Exterior Cleaning

Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

5.4 Storage

If storing the unit for an extended period, ensure it is clean and dry. Coil the power cord neatly and store the unit in a cool, dry place.

6. Troubleshooting

Before contacting customer support, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Power cord not plugged in; Circuit breaker tripped.	Check power outlet; Ensure power cord is securely plugged in; Reset circuit breaker.
Unit not dehumidifying	Air filter clogged; Humidity setting too high; Room temperature too low; Unit size too small for area.	Clean or replace air filter; Lower desired humidity setting; Ensure room temperature is within operating range; Consider additional units for larger areas.
Water leakage	Drain hose kinked or blocked; Unit not level; Drain connection loose.	Check and clear drain hose; Adjust leveling feet; Secure drain hose connection.
Frost on coils	Room temperature too low.	The unit's Auto Defrost feature should handle this. If persistent, increase room temperature or ensure proper ventilation.

7. Specifications

- **Model:** Sentinel HD90
- **Moisture Removal (AHAM):** 90 Pints/Day (80°F, 60% RH)
- **Moisture Removal (Saturation):** 198 Pints/Day
- **Coverage Area:** Up to 2,600 sq. ft.
- **Drainage:** Continuous Gravity Drain
- **Features:** Auto Operation, Auto Defrost, Memory Restart, Internal Corrosion Protection, Easy Mobility, Adjustable Leveling Feet
- **ASIN:** B0F1N43CG5

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and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question