Spider Farmer SF-Dehumidifier

Spider Farmer SF-Dehumidifier Instruction Manual

Model: SF-Dehumidifier

Brand: Spider Farmer

1. Safety Information

Please read all safety instructions carefully before operating the dehumidifier. Failure to do so may result in injury or damage to the unit.

- Ensure the unit is placed on a stable, level surface to prevent tipping.
- Do not block the air inlet or outlet. Maintain adequate clearance around the unit for proper airflow.
- Do not operate the dehumidifier near water or in excessively humid environments (other than its intended use).
- Unplug the unit from the power outlet before cleaning, performing maintenance, or when not in use for extended periods.
- Keep out of reach of children and pets.
- This appliance uses A2L refrigerant. Do not puncture the refrigerant circuit.

2. Package Contents

Verify that all items are included in the package:

- SF-Dehumidifier (with Power Cord) x 1
- Connecting Components x 1
- Air Duct x 1
- Temp/Humidity Sensor Wire x 1
- Drain Pipe x 1



Figure 2.1: Dehumidifier and included accessories.

3. Setup

3.1 Unpacking

Carefully remove the dehumidifier and all accessories from the packaging. Retain packaging for future storage or transport.

3.2 Placement

The SF-Dehumidifier is uniquely designed for grow tents. It can be placed outside the grow tent to prevent adding heat that could affect plant growth inside. Ensure the unit is on a stable surface.



Figure 3.1: Dehumidifier placement outside a grow tent.

3.3 Air Duct Connection

Attach the connecting components onto the dehumidifier's top outlet. Then, connect one end of the air duct to the connecting component and the other end to your grow tent's designated port. This allows dry air to be directed into the tent.



Figure 3.2: Air duct quick connect system.

3.4 Humidity Sensor Connection

Connect the temperature/humidity sensor wire to the designated port on the dehumidifier. Place the sensor inside your grow tent, near the plants, for accurate humidity readings. Avoid placing it directly in the path of the air duct outlet.

3.5 Drainage Setup

The dehumidifier offers two drainage methods:

- **Water Tank:** The unit has a built-in 2.1-liter water tank. When the tank is full, the 'full water' indicator will light up, an alarm will sound, and the unit will automatically stop. Empty the tank and reinsert it to resume operation.
- **Continuous Drain:** For continuous operation, connect the provided drain pipe to the drainage outlet on the back of the unit. Route the hose to a suitable drain or a larger collection container.



Figure 3.3: Two flexible drainage modes.

4. Operating Instructions

4.1 Control Panel Overview

The digital display screen and control buttons are located on the top of the unit for easy operation.



Figure 4.1: Control panel for humidity management.

4.2 Power On/Off

Press the 'Power' button to turn the unit on or off.

4.3 Setting Desired Humidity

Press the 'Humi' button to adjust the target humidity level from 30% to 80%. The unit will automatically stop when the target humidity is reached and restart when the humidity rises above the set level.

4.4 Mode Selection

Press the 'Mode' button to cycle through the three available modes:

- **DEHU (Custom Mode):** Humidity and fan speed can be adjusted.
- **DRY (Dry Clothes Mode):** Fixed humidity and speed, ideal for drying.
- **CONT (Continuous Dehumidifier Mode):** Operates continuously, fixed humidity.

4.5 Timer Function

Use the 'Timer' button to set a 24-hour timer program in 1-hour increments, allowing for scheduled operation and reduced energy consumption.

4.6 Fan Speed Adjustment

Press the 'Speed' button to switch between Low and High fan speeds.

4.7 Lock Function

Press the 'Lock' button to lock the control panel, preventing accidental changes to settings. Press again to unlock.

4.8 Official Product Video

Your browser does not support the video tag.

Video 4.1: Official Spider Farmer Dehumidifier overview, demonstrating features and setup.

5. Maintenance

5.1 Filter Cleaning

The dehumidifier is equipped with a washable filter. Regularly clean the filter to ensure optimal performance and air quality. Remove the filter, rinse it under running water, and allow it to air dry completely before reinserting.

5.2 Water Tank Care

Periodically clean the water tank to prevent mold and mildew buildup. Use a mild detergent and water, rinse thoroughly, and dry before reinserting.

5.3 Automatic Defrosting

The unit features an automatic defrosting function to prevent ice buildup on the coils, ensuring continuous efficient operation and extending the machine's lifespan.

6. Troubleshooting

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

Problem	Possible Cause	Solution
Dehumidifier does not turn on	No power; Water tank full; Temperature too low	Check power connection; Empty water tank; Ensure room temperature is above 41°F (5°C)
Unit not collecting water	Humidity setting too high; Air filter clogged; Room temperature too low	Lower humidity setting; Clean air filter; Ensure room temperature is adequate
Unit is noisy	Unit not level; Air filter clogged; Obstruction in fan	Place on a level surface; Clean air filter; Check for obstructions
Error codes on display	Internal malfunction	Refer to the user manual for specific error codes or contact customer support.

7. Specifications

- **Brand:** Spider Farmer
- **Model Name:** SF-Dehumidifier
- **Dehumidification Capacity:** 32 Pints per Day
- **Coverage Area:** Up to 2000 sq.ft
- **Tank Volume:** 2.1 Liters
- **Product Dimensions:** 11.81"D x 7.87"W x 19.4"H
- **Item Weight:** 24.9 Pounds
- **Wattage:** 230 watts
- **Humidity Setting Range:** 30% - 80% RH
- **Special Features:** Continuous Draining, Digital Display, Adjustable Humidity Control, Automatic Restart, Timer, Automatic Moisture Removal, Automatic Shutoff, Washable Filter

8. Warranty and Support

Spider Farmer is committed to customer satisfaction. We offer comprehensive support for our products.

- **1-Year Product Warranty:** This product is covered by a 1-year warranty from the date of purchase against defects in materials and workmanship.
- **30-Day Return or Exchange Policy:** Eligible for return or exchange within 30 days of delivery, provided the product is in its original condition.
- **Customer Service:** For any questions, concerns, or support needs, please contact our professional customer service team. We are dedicated to providing high-quality assistance before and after your purchase.