APTOOK OX-R190B

APTOOK Commercial Dehumidifier OX-R190B Instruction Manual

Model: OX-R190B | Brand: APTOOK

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your APTOOK Commercial Dehumidifier, Model OX-R190B. This industrial-grade dehumidifier is designed for effective moisture removal in large spaces up to 7,500 sq ft, making it suitable for flood repair, water damage restoration, construction sites, basements, warehouses, and other high-humidity environments. It features a robust design, intelligent controls, and a built-in condensate pump for continuous drainage.



Figure 1: APTOOK Commercial Dehumidifier OX-R190B, showing its robust orange and grey casing with a front grille.

2. Safety Information

Please read and understand all safety instructions before operating the dehumidifier. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Initial Placement:** To ensure the refrigerant in the cooling system has settled properly, keep the unit upright for at least 24 hours before switching it on.
- **Stable Surface:** Always place the equipment on a solid, level surface for operational use to prevent tipping and ensure proper drainage.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (115V, 60Hz). Do not operate with a damaged power cord or plug. Do not immerse the unit in water.
- **Clear Airflow:** Do not block the air intake or exhaust vents. Maintain adequate clearance around the unit for optimal performance and to prevent overheating.
- **Supervision:** Do not leave the unit unattended for extended periods, especially during initial operation.
- **Children and Pets:** Keep children and pets away from the operating dehumidifier.

3. Product Features

The APTOOK Commercial Dehumidifier OX-R190B is equipped with several features designed for high-performance moisture removal and ease of use:

- **High Dehumidification Capacity:** Removes up to 190 PPD (Pints Per Day) at saturation (95°F, 80% RH) or 90 PPD (AHAM standard) for spaces up to 7,500 sq ft. Airflow of 386 CFM.
- **Built-in Condensate Pump:** Features a heavy-duty pump with a 24 ft drain hose and 13 ft vertical drain height for continuous, automatic drainage.
- **Intelligent Control Panel:** Smart LCD display allows humidity adjustment from 10%-90% RH, temperature unit switching (°F/°C), auto memory restart after power outage, and a 24-hour timer.
- **Auto HGV Defrost:** Automatically defrosts to maintain efficiency in cooler conditions.
- **Durable Roto-molded Housing:** Constructed from robust rotomolded polyethylene, resistant to dents, abrasion, and corrosion, suitable for harsh working environments.
- **Ergonomic Design:** Equipped with two large rubber wheels and ergonomically placed handles for easy mobility and transport.
- **Stackable Design:** Allows for efficient storage and transportation, saving space.
- **Washable Air Filter:** Easy to clean and maintain, preventing dust buildup and ensuring optimal performance.
- **Integrated Storage:** Features a dedicated space on the back for storing the 24 ft power cord and 23.5 ft drain hose.
- **Duct Adapter:** Includes a 6.7-inch diameter duct adapter for connecting to exhaust hot air.



Figure 2: Key design features including dimensions (31.8" H x 20.4" L x 18.9" W), collapsible handle, built-in handle, large diameter wheels, and washable filters.

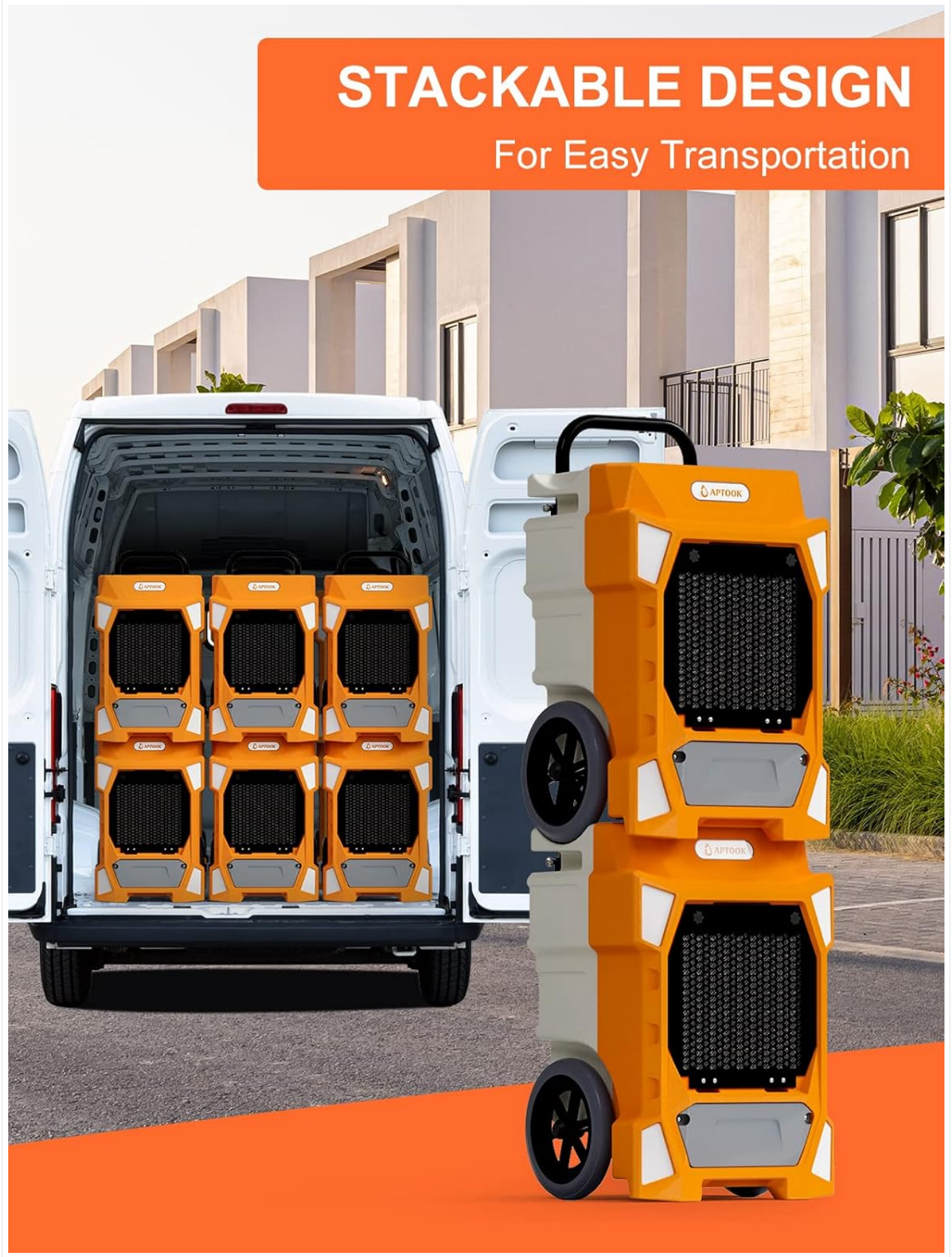


Figure 3: The stackable design of the dehumidifier, demonstrating how multiple units can be efficiently transported in a vehicle.

4. Setup Instructions

1. **Unpacking:** Carefully remove the dehumidifier from its packaging. Inspect for any shipping damage.

2. **Initial Standby:** Place the unit upright on a solid, level surface. Allow it to stand for at least 24 hours before plugging it in. This allows the refrigerant to settle.
3. **Power Connection:** Plug the power cord into a grounded 115V, 60Hz electrical outlet. Ensure the outlet is suitable for the unit's power consumption (740W/6.9A or 900W/8.4A depending on conditions).
4. **Drain Hose Connection:**
    - Locate the built-in condensate pump and the 24 ft drain hose.
    - Connect the drain hose securely to the pump outlet.
    - Route the drain hose to a suitable drainage point. The pump can lift water up to 13 ft vertically. Ensure the hose is not kinked or obstructed.
5. **Air Filter Installation:** Ensure the washable air filter is correctly installed in its designated slot.
6. **Duct Adapter (Optional):** If exhausting hot air, connect a 6.7-inch diameter duct to the duct adapter on the unit.



Figure 4: The built-in condensate pump and the connected drain hose, illustrating the 13ft vertical drainage height and 24ft drain hose length.



Figure 5: Dehumidifier operating in a basement, demonstrating the connection of an outlet duct with a diameter of 6.7 inches.

5. Operating Instructions

The dehumidifier features an intelligent LCD control panel for easy operation.



Figure 6: Close-up of the intelligent control panel, showing the LCD display for humidity and temperature readings, and control buttons for Power, Purge, Timer, Defrost, and humidity adjustment.

1. **Power On/Off:** Press the **POWER** button to turn the unit on or off.
2. **Setting Desired Humidity:** Use the **UP** and **DOWN** arrow buttons to adjust the desired humidity level between 10% and 90% RH. The unit will operate until the set humidity is reached, then cycle off.

3. **Temperature Unit Switch:** Press and hold the **POWER** button for 5 seconds to switch the temperature display between Fahrenheit (°F) and Celsius (°C).
4. **24-Hour Timer:** Press the **TIMER** button to set a specific time for the unit to turn on or off automatically. Use the **UP** and **DOWN** arrow buttons to adjust the timer duration.
5. **Continuous Drainage:** With the built-in pump and drain hose connected, the unit will automatically drain collected condensate, eliminating the need for manual emptying.
6. **Auto HGV Defrost:** The unit is equipped with an automatic hot gas bypass defrost feature. This allows it to operate efficiently in low-temperature environments by preventing ice buildup on the coils.
7. **Memory Function:** In case of a power outage, the unit will automatically restart with the last settings once power is restored.
8. **Purge Function:** When you need to clean or store the dehumidifier, press the **PURGE** button to drain any remaining condensate from the water tank via the pump.
9. **FULL Indicator:** The **FULL** indicator light will illuminate if the internal reservoir is full (though with continuous drainage, this should rarely occur unless the pump or hose is obstructed).
10. **DEFROST Indicator:** The **DEFROST** indicator light will illuminate when the unit is in defrost mode.

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Video 1: A short overview of the APTOOK Commercial Dehumidifier, highlighting its key features such as 190 PPD capacity, intelligent control, auto defrost, memory restart, and motor protection. This video provides a visual summary of the product's capabilities.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your dehumidifier.

- **Air Filter Cleaning:** The unit is equipped with a washable air filter. Monitor its condition regularly to prevent dust buildup.
  - Turn off and unplug the dehumidifier before cleaning.
  - Remove the air filter from its slot.
  - Wash the filter with warm, soapy water. Rinse thoroughly.
  - Allow the filter to air dry completely before reinstalling.
  - Reinstall the dry filter into the unit.
- **Exterior Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Drain Hose Inspection:** Periodically check the drain hose for kinks, blockages, or damage. Ensure it is securely connected.
- **Storage:** If storing the unit for an extended period, perform a purge cycle to drain all water, clean the filter, and store it in an upright position in a dry, cool place.

7. Troubleshooting

Before contacting technical service, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, power cord loose, circuit breaker tripped.	Check power connection, ensure outlet is functional, reset circuit breaker.
Dehumidifier not collecting water.	Humidity setting too high, ambient humidity too low, air filter clogged, unit in defrost mode.	Lower humidity setting, clean air filter, allow defrost cycle to complete. Ensure room temperature is within operating range (41°F-110°F).
Water leaking from unit.	Drain hose kinked or blocked, drain hose not securely connected, unit not level.	Check and clear drain hose, ensure secure connection, place unit on a level surface.

Problem	Possible Cause	Solution
Unit is noisy.	Unit not on a level surface, air filter clogged, internal component issue.	Ensure unit is level, clean air filter. If noise persists, contact technical service.
"FULL" indicator light is on.	Internal reservoir full (if continuous drainage is not active or obstructed).	Check drain hose for blockages or kinks. Press the PURGE button to empty the reservoir.

8. Specifications

Specification	Detail
Brand	APTOOK
Model Number	OX-R190B
Voltage	115V, 60Hz
Power Consumption & Current	740W/6.9A @80°F, 60%RH; 900W/8.4A @86°F, 80%RH
Dehumidify Capacity (80°F, 60%RH)	90 Pints/Day (AHAM)
Dehumidify Capacity (86°F, 80%RH)	145 Pints/Day
Dehumidify Capacity (95°F, 80%RH)	190 Pints/Day (Saturation)
Air Flow	386 CFM
Working Temperature Range	41°F - 110°F
Humidity Setting Range	10% - 90% RH
Drain Hose Length	24 ft
Drain Vertical Height (Pump)	13 ft
Cord Length	23.5 ft
Net Weight	99.2 lbs (45 kg)
Product Dimensions (L*W*H)	31.88” x 18.89” x 20.47” (80.98 x 47.98 x 51.99 cm)
Duct Adapter Diameter	6.7”
Material	Polyethylene (PE)
Noise Level	59 Decibels
Special Features	Automatic Defrost, Timer, Washable Filter, Memory Function, Built-in Condensate Pump

9. Warranty and Support

APTOOK is committed to providing high-quality products and customer satisfaction. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions.

If you encounter any issues or have questions regarding the operation, maintenance, or troubleshooting of your APTOOK Commercial Dehumidifier, please do not hesitate to contact our technical service department. Our team is ready to assist you.

Contact Information:

- For technical assistance, please refer to the contact details provided in your product packaging or visit the official APTOOK website.

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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.

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