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> Garvee 180 PPD Commercial Dehumidifier (Model VC_CH180) User Manual

Garvee VC_CH180

Garvee 180 PPD Commercial Dehumidifier (Model VC_CH180) User Manual

Your guide to safe and efficient operation

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your Garvee 180 PPD Commercial Dehumidifier, Model VC_CH180. Please read all instructions carefully before installation, operation, or maintenance. Retain this manual for future reference.



Image 1.1: Garvee 180 PPD Commercial Dehumidifier with included drain hose.

2. SAFETY INFORMATION

To prevent injury to the user or others and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- Always ensure the unit is placed on a stable, level surface to prevent tipping.
- Do not block air inlets or outlets. Maintain at least 12 inches (30 cm) of clearance around the unit for proper airflow.
- Unplug the unit from the power outlet before cleaning, maintenance, or when not in use.
- Keep the dehumidifier out of reach of children and pets.
- Use only with a properly grounded electrical outlet that matches the voltage specified on the unit's rating label.
- Do not operate the unit if the power cord or plug is damaged. Contact customer support for repairs.
- Do not insert fingers or foreign objects into the air inlet or outlet.

- 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. PRODUCT OVERVIEW

3.1 Key Features

- **High Capacity Moisture Removal:** Removes up to 180 PPD (Pints Per Day) at 95°F, 80% Relative Humidity (RH), or 90 PPD at AHAM standard conditions (80°F, 60% RH).
- **Wide Coverage Area:** Effective for spaces up to 6,000 square feet.
- **Powerful Airflow:** Features an airflow of 386 CFM (Cubic Feet per Minute).
- **Integrated Condensate Pump:** Allows for automatic and continuous drainage without manual emptying.
- **Adjustable Humidistat:** Humidity levels can be set between 10% and 90% RH.
- **Automatic Defrost:** Prevents ice build-up on coils, ensuring efficient operation in low temperatures.
- **Power Outage Memory:** Automatically restarts with previous settings after a power interruption.
- **24-Hour Timer:** Program automatic on/off times for convenience.
- **Durable Construction:** Rotomolded polyethylene shell provides resistance to dents and wear.
- **Enhanced Portability:** Equipped with semi-pneumatic wheels, two rope handles, and a rigid foldable handle for easy transport.
- **Washable Filter:** Reusable air filter for easy maintenance.

3.2 Components

Familiarize yourself with the main components of your dehumidifier:

- Control Panel with LCD Display
- Air Inlet (with filter)
- Air Outlet
- Drain Port for Hose Connection
- Heavy-Duty Wheels
- Rope Handles and Foldable Rigid Handle
- Power Cord and Cord Storage Straps

Easy to Move Around



Image 3.1: The dehumidifier features wheels and handles for easy transport.



Image 3.2: Integrated cord storage for convenience.

4. SETUP

Follow these steps to set up your dehumidifier for first use:

1. **Unpacking:** Carefully remove the dehumidifier from its packaging. Inspect the unit for any shipping damage. If damage is found, do not operate the unit and contact customer support.
2. **Placement:** Place the dehumidifier on a firm, level surface in the desired location. Ensure there is at least 12 inches (30 cm) of clear space around all sides of the unit to allow for proper air circulation. Do not place the unit against a wall or near curtains that could obstruct airflow.
3. **Drain Hose Connection:** Locate the drain port on the unit. Connect the provided 16.4 ft (5 meter) drain hose to the drain port. Ensure the connection is secure to prevent leaks. Position the other end of the hose to drain into a suitable location, such as a floor drain, sink, or outside. Ensure the hose is not kinked or elevated above the unit's drain port, as this will impede drainage.
4. **Power Connection:** Plug the power cord into a grounded electrical outlet that meets the unit's power requirements (refer to the specifications section).

Efficient Moisture Removal

Ideal for Basement/Crawl/Commercial Use



Image 4.1: Proper placement of the dehumidifier in a basement environment.

5. OPERATING INSTRUCTIONS

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



Image 5.1: Smart Control Panel for the Garvee Dehumidifier.

5.1 Control Panel Functions

- **POWER Button:** Press to turn the unit ON or OFF.
- **UP/DOWN Arrows:** Use to adjust the desired humidity level (10% - 90% RH) or set the timer duration.
- **TIMER Button:** Activates the 1-24 hour timer function. Press repeatedly to cycle through timer settings.
- **PURGE Button:** Manually activates the condensate pump to drain any accumulated water.
- **DEFROST Indicator:** Illuminates when the unit is in defrost mode.
- **FULL Indicator:** Illuminates when the internal reservoir (if applicable, or indicates a drainage issue if continuous drain is set up incorrectly) is full.
- **LCD Display:** Shows current humidity, set humidity, timer settings, and temperature.

5.2 Setting Desired Humidity

1. Turn on the unit by pressing the **POWER** button.

2. Use the **UP** or **DOWN** arrow buttons to set your desired humidity level. The display will show the set humidity for a few seconds, then revert to displaying the current room humidity.
3. The unit will operate until the ambient humidity reaches the set level, then it will cycle off. It will restart automatically when the humidity rises above the set level.

5.3 Using the Timer

1. **To set Auto-ON:** With the unit OFF, press the **TIMER** button. Use the **UP/DOWN** arrows to set the number of hours (1-24) after which the unit should turn ON.
2. **To set Auto-OFF:** With the unit ON, press the **TIMER** button. Use the **UP/DOWN** arrows to set the number of hours (1-24) after which the unit should turn OFF.
3. The timer indicator will light up when the timer is active.

5.4 Automatic Defrost

The unit is equipped with an automatic defrost function. If frost builds up on the evaporator coils, the unit will automatically enter defrost mode. The **DEFROST** indicator will illuminate, and the compressor will temporarily stop while the fan continues to run to melt the frost. Once defrosted, the unit will resume normal operation.



Image 5.2: Automatic defrost system in action.

6. DRAINAGE OPTIONS

The Garvee VC_CH180 dehumidifier is designed for continuous drainage using its built-in condensate pump.

6.1 Continuous Drainage with Pump

- Connect the provided 16.4 ft (5 meter) drain hose to the unit's drain port.
- Route the drain hose to a suitable drainage point (e.g., floor drain, sink, or outdoors). The built-in pump allows water to be discharged upwards or over a longer distance, providing flexibility in placement.
- Ensure the hose is free of kinks or blockages to allow for uninterrupted water flow.
- The pump will automatically activate to remove collected condensate when necessary. You can also manually activate the pump by pressing the **PURGE** button on the control panel.

Automatic Drainage

Built in condensate pump to free to drain everywhere



Image 6.1: Illustration of continuous drainage with the built-in pump, allowing water to be discharged to higher levels or distant drains.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your dehumidifier.

7.1 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 the dehumidifier and unplug it from the power outlet.
2. Locate the air filter access panel (usually on the back or side of the unit).
3. Remove the air filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly and allow it to air dry completely before reinstalling. Do not use a dishwasher or expose to direct sunlight.
5. Reinsert the dry filter into its slot and close the access panel.



Image 7.1: Removable and washable air filter for easy cleaning.

7.2 Cleaning the Exterior

Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the surface.

7.3 Storage

If storing the unit for an extended period:

- Unplug the unit and ensure all water has been drained from the pump and hose.
- Clean the air filter.
- Wrap the power cord and secure it with the integrated straps.
- Store the unit in an upright position in a cool, dry place, away from direct sunlight and extreme temperatures. The unit's sturdy shell allows for stacking to save space.

8. TROUBLESHOOTING

Before contacting customer support, please refer to the following troubleshooting guide for common issues.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply. Power cord not securely plugged in. Circuit breaker tripped.	Ensure unit is plugged into a live, grounded outlet. Check power cord connection. Reset the circuit breaker.
No water collected or dehumidifying poorly.	Air filter is dirty. Humidity setting is too high. Room temperature is too low. Air inlet/outlet blocked. Drain hose kinked or blocked.	Clean the air filter. Lower the desired humidity setting. Dehumidifiers operate less efficiently below 41°F (5°C). Ensure proper clearance around the unit. Straighten or clear the drain hose.

Problem	Possible Cause	Solution
Unit is noisy.	Unit not on a level surface. Air filter dirty. Fan obstruction.	Place unit on a flat, stable surface. Clean the air filter. Check for any foreign objects near the fan.
Water leaks from the unit.	Drain hose not properly connected. Drain hose is damaged or blocked.	Ensure drain hose is securely attached to the drain port. Inspect the drain hose for damage or blockages and replace if necessary.

9. SPECIFICATIONS

Technical specifications for the Garvee 180 PPD Commercial Dehumidifier.

Feature	Specification
Brand	Garvee
Model Name	VC_CH180
Moisture Removal Capacity	180 PPD (95°F, 80% RH) / 90 PPD (AHAM)
Coverage Area	Up to 6,000 Square Feet
Airflow	386 CFM
Product Dimensions (D x W x H)	28" x 15.7" x 22"
Recommended Uses	Commercial, Basement, Crawl Space, Warehouse, Job Sites
Included Components	1*Commercial Dehumidifier, 1*16.4Ft Drain Hose, 1* User Manual
Special Features	Adjustable Humidity Control, Automatic Defrost, Automatic Moisture Removal, Built-In Pump, Continuous Draining, Ergonomic Handle, Portable, Timer, Washable Filter
UPC	196336611321

10. WARRANTY AND SUPPORT

For warranty information or technical assistance, please contact Garvee customer support. Refer to your purchase documentation for specific warranty terms and contact details.

You can often find customer support contact information on the official Garvee website or through the retailer where you purchased the product.

