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› [Little Giant](#) /

› Little Giant VCMA-15ULS Automatic Condensate Removal Pump User Manual

Little Giant VCMA-15ULS

Little Giant VCMA-15ULS Automatic Condensate Removal Pump User Manual

Model: VCMA-15ULS | Brand: Little Giant

INTRODUCTION

The Little Giant VCMA-15ULS is a 1/50 HP automatic condensate removal pump designed for collecting, detecting, and removing condensation from air conditioners, dehumidifiers, refrigeration equipment, high-efficiency gas furnaces, and condensing boilers. This unit features a 1/2-gallon condensate holding tank, a built-in check valve, and an overflow detection switch.

PRODUCT FEATURES

- 1/50 HP high-performance, fan-cooled motor, 1.0 Amps, 60 Watts, 115 Volts, 60 Hz. CSA certified to US and Canadian standards.
- 1/2-gallon collection tank capacity.
- Rated for water temperatures up to 140° F (60° C).
- Three 1-1/8" inlet openings (two fitted with removable caps).
- ABS tank, motor cover, and volute; stainless steel motor shaft.
- Includes overflow detection switch with 5" leads, which can be wired to shut down the appliance or activate an alarm (alarm not included). Basic wiring knowledge is required.
- 3/8" OD barbed discharge.
- Delivers up to 65 GPH (gallons per hour) at 1' lift.
- 15' shut-off head.
- 6-foot power cord with 3-prong plug.

VCMA-15 SERIES CONDENSATE PUMPS

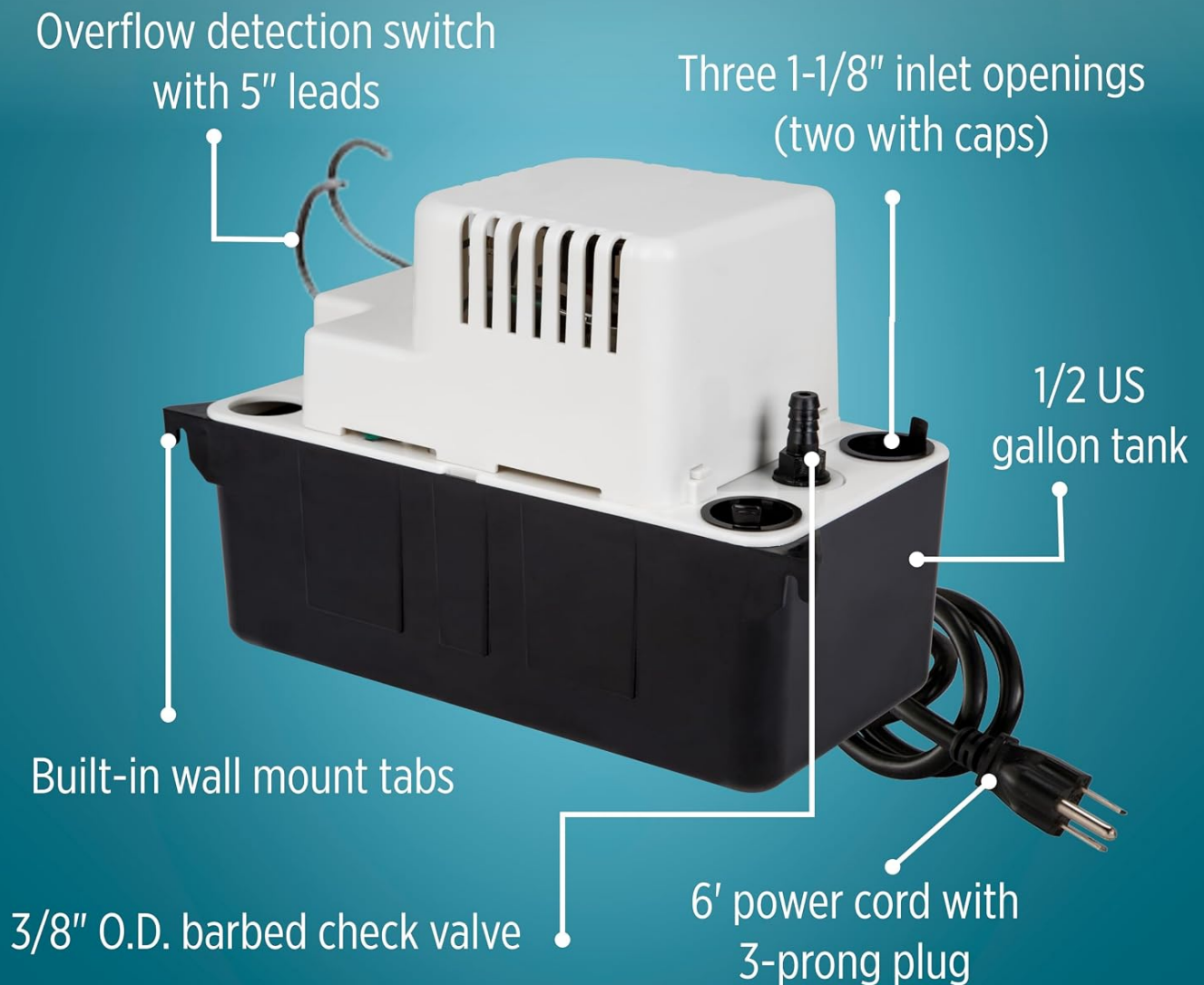


Image description: A diagram highlighting the key features of the VCMA-15 series condensate pump, including motor specifications, tank capacity, temperature rating, inlet openings, overflow switch wiring, discharge rate, and shut-off height.

VCMA-15 SERIES

CONDENSATE PUMPS

FEATURES

- 1/50 hp, 115-volt thermally protected, fan-cooled motor
- 1/2-gallon collection tank
- Rated for water temperatures up to 140 °F (60 °C)
- Three 1-1/8" diameter inlet openings (two fitted with removable caps)
- Overflow detection switch wiring with two 5" leads wires
- Delivers up to 65 gph
- 15' shut-off



Image description: A diagram illustrating the automatic operation of the VCMA-15 series condensate pump, showing on/off levels and the function of the overflow detection switch.

SETUP AND INSTALLATION

Unpacking

Carefully remove the pump from its packaging. Inspect for any damage before proceeding with installation.

Important Pre-Operation Step

Before operating the pump, you must remove the cardboard insert located inside the unit. Failure to remove this insert will cause the pump to overflow.

VCMA-15 SERIES CONDENSATE PUMPS

HP	Volts	Hz	Amps	Watts	Discharge	Shut-off	PSI	Max. Flow	Cord
1/50	115	60	1	60	3/8" O.D. Barbed	15'	6.5	65	6'

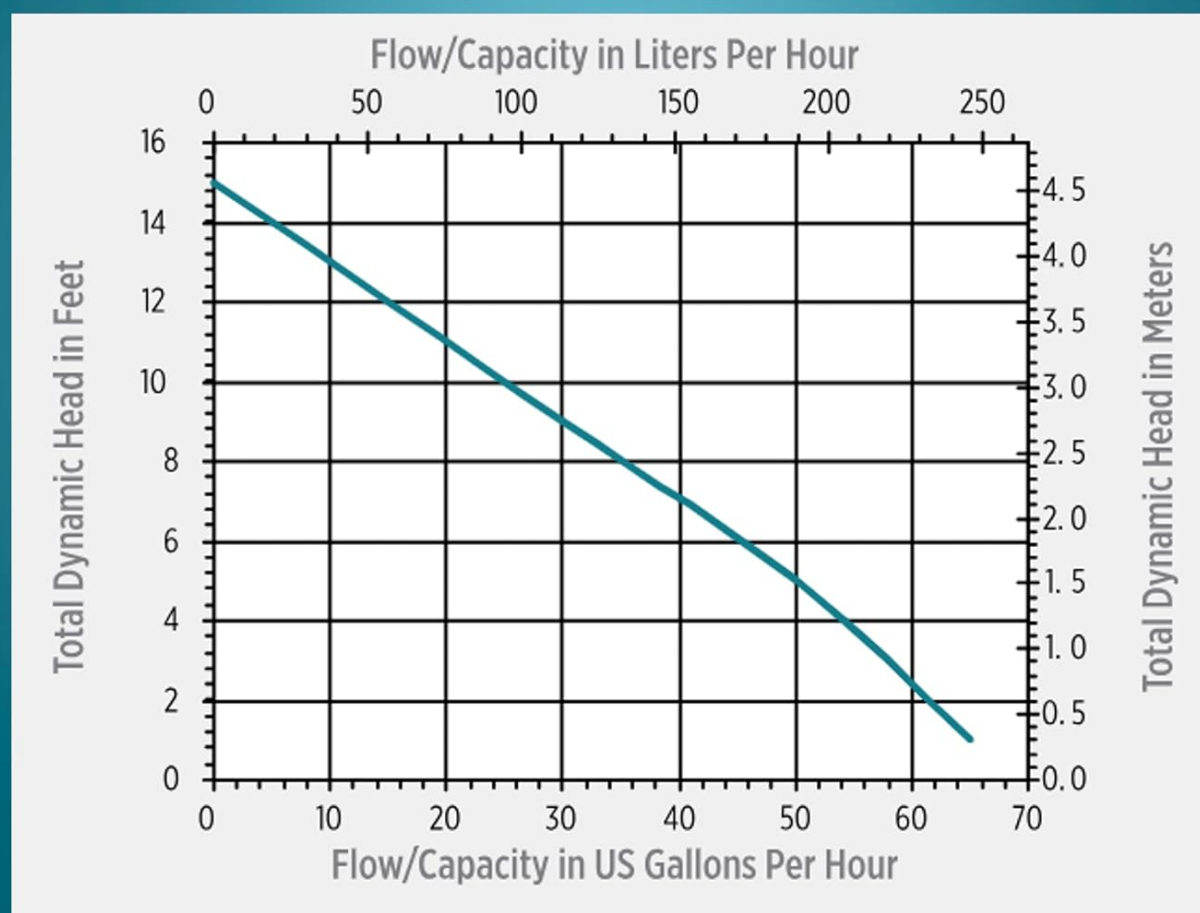


Image description: A close-up view of the condensate pump with a red arrow pointing to the cardboard insert that must be removed before operation.

Placement

Position the pump on a stable, level surface near the equipment producing condensate (e.g., air conditioner, furnace, dehumidifier). Ensure the pump is accessible for maintenance and inspection.

Condensate Inlet Connection

The pump has three 1-1/8" inlet openings. Connect the condensate drain line from your equipment to one of these openings. Ensure the drain line slopes downwards towards the pump for proper gravity flow.

Discharge Line Connection

Connect a 3/8" ID (inside diameter) tubing to the barbed discharge nipple on the pump. Secure it with a hose clamp to prevent leaks. Route the discharge tubing to a suitable drain, ensuring it is free of kinks or obstructions. The pump has a 15-foot shut-off head, meaning it can pump water up to 15 feet vertically.

Electrical Connection

Plug the 6-foot power cord into a standard 115 Volt, 60 Hz electrical outlet.

Overflow Detection Switch Wiring

The overflow detection switch includes two 5" lead wires. This switch can be wired to either shut down the connected appliance in case of high water levels or activate an audible/visual alarm (not included). **Basic wiring knowledge is required for this connection. Consult a qualified electrician if unsure.**

VCMA-15 SERIES

CONDENSATE PUMPS

AUTOMATIC

- Automatic start and stop operation
- Overflow detection switch can be set to turn off appliance or sound an audible alarm (not included)



Image description: A close-up of hands wiring the safety switch leads on the VCMA-15 series condensate pump, emphasizing that electrical experience is required.

Installation Video

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Video description: An official installation guide for the Little Giant VCMA Series condensate pumps, demonstrating proper setup procedures.

OPERATING INSTRUCTIONS

The VCMA-15ULS pump operates automatically. When condensate fills the reservoir to a certain level (approximately 2.5 inches), the internal float switch activates the pump. The pump will run until the water level drops to approximately 1.1 inches, then it will shut off.

Initial Start-up

After installation, ensure all connections are secure and the cardboard insert has been removed. Turn on the equipment producing condensate. The pump will activate automatically as condensate collects.

Overflow Protection

If the water level in the reservoir rises above the normal operating range, the overflow detection switch will activate. If wired, this will either shut down the connected equipment or trigger an alarm, preventing potential water damage.

Operation Video

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Video description: An official video demonstrating how to test the operation of the Little Giant VCMA Condensate Pump, including the float switch mechanism.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your condensate pump.

Cleaning the Reservoir

It is recommended to clean the pump's reservoir periodically, especially when changing air conditioner filters or as needed based on usage.

1. Disconnect the pump from the power source.
2. Disconnect the inlet and discharge lines.
3. Remove the pump cover and carefully clean the inside of the reservoir, float switch, and impeller area. Use a mild detergent and water. Avoid harsh chemicals.
4. Rinse thoroughly and reassemble.

Checking Tubing

Periodically inspect the inlet and discharge tubing for any obstructions, kinks, or signs of algae/sludge buildup. Clean or replace tubing as necessary to maintain proper flow.

Maintenance Video

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Video description: An official video detailing steps to maintain Little Giant VCMA Series pumps, including cleaning and inspection.

TROUBLESHOOTING

If your pump is not operating correctly, review the following common issues and solutions:

Pump Not Running

- **Check Power:** Ensure the pump is securely plugged into a working electrical outlet.

- **Float Switch:** Verify that the float switch is not obstructed and can move freely. The water level must be high enough to activate the switch.
- **Thermal Overload:** The motor has thermal overload protection. If the pump has been running continuously or under strain, it might have shut off to cool down. Allow it to cool and check for obstructions.
- **Cardboard Insert:** Confirm the shipping cardboard insert has been removed from the reservoir.

Pump Running Continuously

- **Discharge Line Obstruction:** Check the discharge tubing for kinks, blockages, or excessive vertical lift.
- **Check Valve:** Inspect the built-in check valve for debris that might prevent it from closing, allowing water to flow back into the reservoir.
- **Float Switch:** Ensure the float switch is not stuck in the "on" position.

Water Overflowing

- **Discharge Line Blockage:** Clear any blockages in the discharge line.
- **Inlet Line Blockage:** Ensure condensate can freely enter the pump's reservoir.
- **Pump Failure:** If the pump motor is running but not discharging water, or if it's not running at all despite high water levels, the pump may require service or replacement.
- **Cardboard Insert:** Re-verify the cardboard insert has been removed.

SPECIFICATIONS

Feature	Detail
Brand	Little Giant
Model Number	554405
Voltage	115 Volts
Horsepower	1/50 HP
Amperage	1.0 Amps
Watts	60 Watts
Frequency	60 Hz
Maximum Flow Rate	65 GPH (at 1' lift)
Shut-off Head	15 feet
Max Pressure	6.5 PSI
Tank Capacity	1/2 Gallon
Inlet Openings	Three 1-1/8" diameter
Discharge Outlet	3/8" OD barbed
Power Cord Length	6 feet
Max Water Temperature	140° F (60° C)
Dimensions (L x W x H)	11" x 5" x 7.03"

Feature	Detail
Material	ABS (Acrylonitrile Butadiene Styrene)

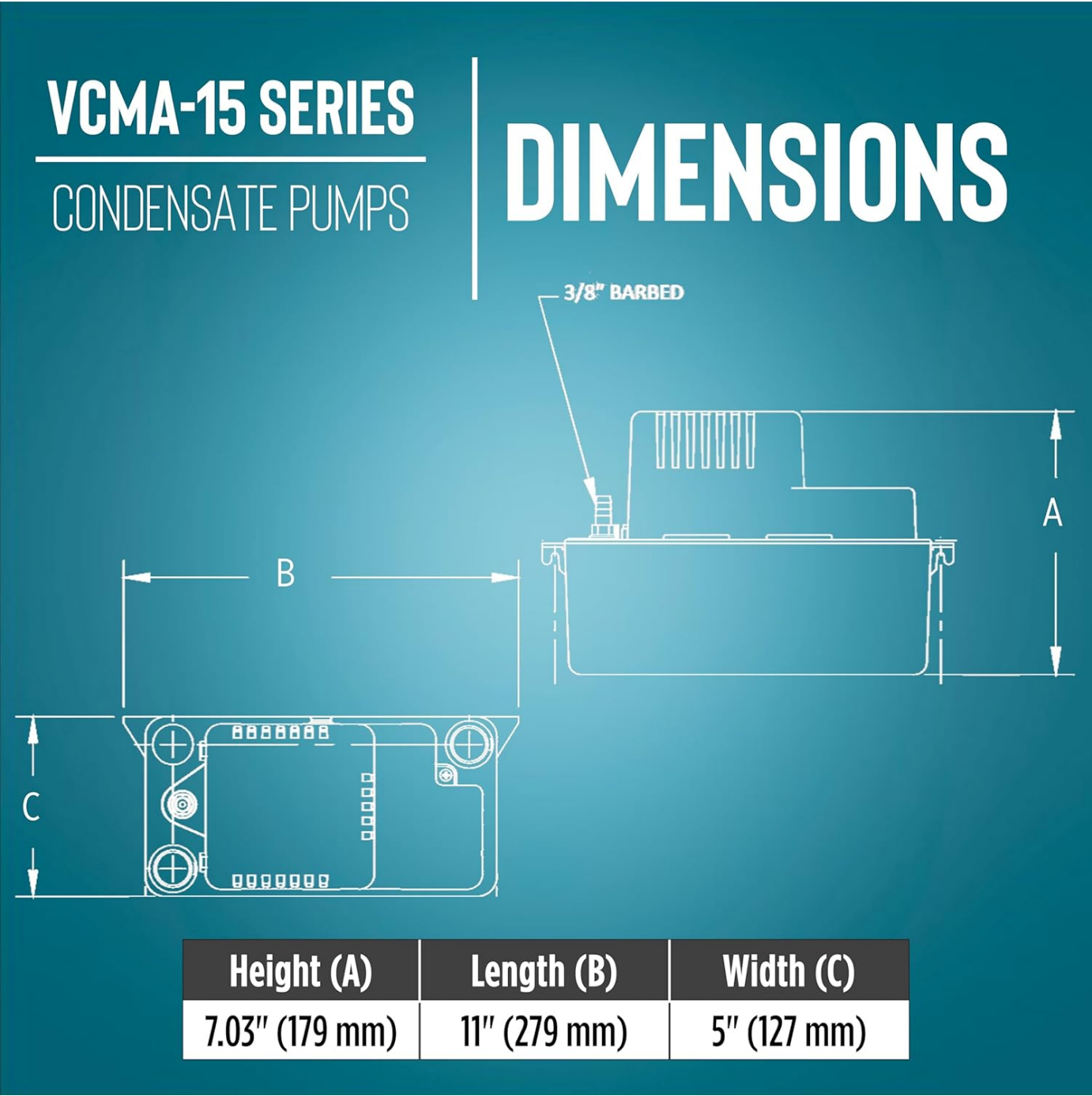


Image description: A technical drawing showing the dimensions (height, length, width) of the VCMA-15 series condensate pump, including the 3/8" barbed discharge.

VCMA-15 SERIES CONDENSATE PUMPS



Ideal for condensate removal produced by boilers, furnaces, air conditioners and hydroponic systems.

Image description: A graph illustrating the flow/capacity performance curve of the VCMA-15 series condensate pump, showing total dynamic head in feet versus flow in US gallons per hour.

WARRANTY

This Little Giant VCMA-15ULS condensate removal pump is backed by a **1-year manufacturer's warranty**. For warranty claims or support, please contact Franklin Electric Co., Inc. customer service.

For items purchased within 30 days, please refer to Amazon's 30-day return policy. After 30 days, if Amazon.com is the seller, your product is covered by the terms outlined in this manual.

SUPPORT

For technical assistance, troubleshooting, or installation guidance, please refer to the official Little Giant website or contact their customer support.

[Visit the Little Giant Store on Amazon](#)

Additional resources, including a PDF user manual and warranty information, may be available on the manufacturer's website.

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