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Rectorseal 83849

Rectorseal Aspen Mini Lime 100-250V Condensate Pump with Slimline Cover Instruction Manual

Model: 83849

Product Overview

The Rectorseal Aspen Mini Lime Condensate Pump Kit is designed for efficient removal of condensed water from ductless mini-split AC systems. This compact unit integrates both the pump and reservoir, facilitating flexible installation options. It is engineered for quiet operation and easy maintenance, making it an ideal solution for managing condensate in various HVAC applications.



Image: Components of the Aspen Mini Lime Condensate Pump Kit, including the pump unit, tubing, and slimline cover.

Safety Information

Always disconnect power before installing or servicing the pump. Ensure all electrical connections comply with local codes and regulations. This device operates with electrical components and water; improper installation can lead to electric shock or fire. Do not operate the pump if it is damaged or if any wires are frayed. Keep out of reach of children.

- Read all instructions before use.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Ensure proper grounding.
- Do not submerge the pump unit in water.

Setup and Installation

The Aspen Mini Lime pump is designed for easy installation, either to the left or right of the evaporator unit. It integrates the pump and reservoir into a single unit, eliminating the need for separate connecting tubes or wires for the reservoir.

Tools Required:

- Screwdriver set
- Wire strippers
- Drill (if mounting to wall)
- Measuring tape
- Level

Installation Steps:

1. **Prepare the Area:** Ensure the area around the mini-split evaporator is clean and accessible. Identify the condensate drain outlet.
2. **Mounting the Pump:** The pump can be mounted directly onto the reservoir. Position the pump unit in a location that allows for minimal suction lift from the evaporator's condensate tray. The slimline cover is designed to conceal the unit and line set.
3. **Connect Drain Line:** Connect the condensate drain line from the evaporator coil to the inlet of the pump's reservoir. Ensure a secure, watertight connection.
4. **Connect Discharge Line:** Attach the discharge tubing from the pump's outlet to a suitable drain point, ensuring a continuous downward slope to prevent water traps. The pump can lift water up to 33 feet vertically.
5. **Electrical Connections:**
 - Connect the pump's power supply wires to a suitable 100-250V AC power source. Refer to the wiring diagram provided with the product for specific connections.
 - **Safety Switch (NC Dry Contacts):** Connect the 3A NC (Normally Closed) dry contacts to the AC unit's control circuit. This safety switch will shut down the AC unit if the pump reservoir reaches a high water level, preventing overflow. These contacts are rated at 5A inductive at 230V AC.
6. **Secure Components:** Secure all tubing and electrical wiring using appropriate fasteners or clips. Install the slimline cover to conceal the line set and pump unit for a clean finish.
7. **Test Operation:** After installation, power on the AC unit and observe the condensate drainage. Ensure the pump activates when the reservoir fills and effectively discharges water. Check for any leaks.

Operating Instructions

The Aspen Mini Lime pump operates automatically. When condensate water from the AC unit fills the pump's reservoir to a predetermined level, the internal float switch activates the pump. The pump then discharges the water through the drain line until the reservoir level drops, at which point the pump deactivates.

- The pump is designed for non-continuous duty cycle.

- The sound level during operation is approximately 25.5dB(A).
- If the high-level safety switch is connected, the AC unit will shut off if the pump fails to drain water, preventing overflow.

Maintenance

Regular maintenance ensures optimal performance and longevity of your condensate pump. It is recommended to perform maintenance at least once a year, or more frequently in dusty environments.

Cleaning the Reservoir and Filter:

1. **Disconnect Power:** Always turn off the power to the AC unit and the condensate pump before performing any maintenance.
2. **Access Reservoir:** The transparent reservoir easily clips off for quick access. Carefully remove the elbow cover and detach the reservoir.
3. **Clean Components:** Remove any debris, sludge, or algae buildup from the reservoir, float switch, and filter screen. Use warm water and a mild detergent. Avoid abrasive cleaners.
4. **Inspect Tubing:** Check the inlet and outlet tubing for any blockages or kinks. Clear any obstructions.
5. **Reassemble:** Reattach the reservoir and elbow cover securely. Ensure all connections are tight.
6. **Test:** Restore power and verify proper operation by observing the pump's cycle.

Troubleshooting

If your Aspen Mini Lime pump is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Pump not running	No power; Clogged reservoir/float; Safety switch activated; Motor failure	Check power supply; Clean reservoir and float; Check safety switch wiring; Contact qualified technician
Pump runs continuously	Float stuck; Check valve faulty; Leak in discharge line; Excessive condensate production	Clean float; Inspect/replace check valve; Check for leaks; Verify AC unit size/humidity levels
Water overflow from reservoir	Pump not running (see above); Discharge line blocked/kinked; Pump undersized	Address pump not running; Clear discharge line; Ensure pump capacity matches AC unit BTU/hr
Excessive noise	Air in pump; Pump not securely mounted; Debris in pump	Allow air to purge; Secure pump mounting; Clean pump/reservoir

For issues not listed or if solutions do not resolve the problem, contact Rectorseal customer support or a qualified HVAC technician.

Specifications

Feature	Detail
Model	83849 (Aspen Mini Lime)
Voltage	100-250V AC
Wattage	16 watts
Max. Capacity	Up to 54,600 BTU/hr

Feature	Detail
Flow Rate (Zero Head)	2.9-3.2 GPH (Gallons Per Hour)
Flow Rate (33ft Head)	1.3-1.5 GPH (Gallons Per Hour)
Sound Level	25.5dB(A)
Safety Contacts	3A NC dry contacts rated @ 5A inductive at 230V AC
Lineset Elbow Casing Dimensions	H-5 1/4" x W-5 1/4" x D-2 3/4"
Lineset Duct Casing Dimensions	H-31" x W-5 1/4" x D-2 3/4"
Material	Plastic
Item Weight	3.5 Pounds

Warranty Information

Rectorseal products are manufactured to high standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Rectorseal website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Rectorseal customer support:

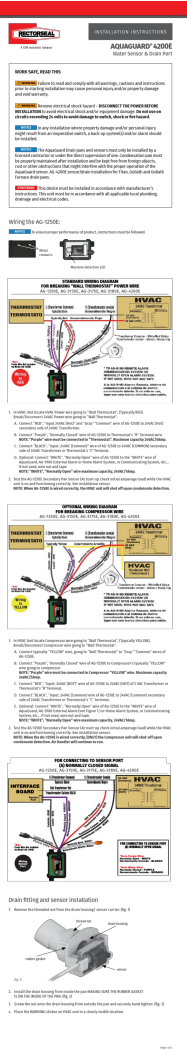
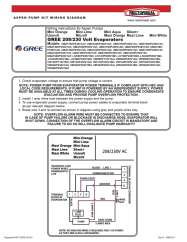
- **Website:** www.rectorseal.com
- **Phone:** 1-800-231-3345
- **Address:** Refer to product packaging or website for corporate address.

When contacting support, please have your product model number (83849) and purchase date available.



Detailed installation instructions for the RectorSeal AquaGuard AG-1200+ magnetic float switch, including safety precautions, mounting, and wiring diagrams for conventional and communicating HVAC systems.

Detailed installation and wiring instructions for the RectorSeal AquaGuard AG-1200+ magnetic float switch, designed for HVAC systems. Includes safety warnings, step-by-step guides for drain pan mounting and electrical connections in both conventional and communicating HVAC systems.

<div data-bbox="124 91 311 1137">  </div>	<div data-bbox="341 891 1476 1041"> <p>RectorSeal AQUAGUARD® 4200E Water Sensor & Drain Port Installation Guide</p> <p>Comprehensive installation instructions for the RectorSeal AQUAGUARD® 4200E Water Sensor & Drain Port, including wiring diagrams and drain pan installation details for Titan, Goliath, and Goliath Furnace models.</p> </div>
<div data-bbox="124 1883 311 2123">  </div>	<div data-bbox="341 1951 1476 2060"> <p>Aspen Pump Kit Wiring Diagram for GREE 208/230 Volt Evaporators</p> <p>Wiring instructions and diagram for installing Aspen condensate pumps with GREE 208/230 Volt evaporators. Includes model numbers and important safety notes.</p> </div>



Detailed installation and wiring instructions for the RectorSeal AquaGuard AG-1100+ magnetic float switch, designed to prevent HVAC system damage from condensate overflow. Includes safety warnings and diagrams.



Comprehensive installation and wiring instructions for the RectorSeal AquaGuard AG-1200+ magnetic float switch, detailing setup for conventional and communicating HVAC systems, including safety warnings and testing procedures.