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## Rectorseal 83859

# RectorSeal Aspen Pumps 83859 Mini Lime Univolt Condensate Pump Instruction Manual

Model: 83859

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the RectorSeal Aspen Pumps 83859 Mini Lime Univolt Condensate Pump. This pump is designed for use with ductless mini-split AC systems to effectively remove condensed water from the evaporative coil condensate tray.

The Aspen Mini Lime 83859 Condensate Pump Kit integrates the pump and reservoir into a single unit, facilitating straightforward installation. It includes a white Fortress lineset cover for a clean, finished appearance.

## 2. SAFETY INFORMATION

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

- Always disconnect power before performing any installation, maintenance, or service.
- Installation should be performed by a qualified technician in accordance with local electrical and plumbing codes.
- Ensure the pump is installed in a location where it is protected from freezing temperatures.
- Do not operate the pump dry. Ensure there is water in the reservoir during operation.
- Keep hands and foreign objects away from moving parts.
- This pump is designed for condensate removal from AC systems only. Do not use for other liquids.

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Aspen Mini Lime Univolt Condensate Pump (Model 83859)
- Fortress White Duct Lineset Cover

- Installation Hardware (e.g., mounting clips, screws)
- Instruction Manual

## 4. SPECIFICATIONS

<b>Model Number</b>	83859
<b>Brand</b>	Rectorseal
<b>Style</b>	Mini Lime
<b>Color</b>	Lime
<b>Material</b>	Plastic
<b>Product Dimensions</b>	6" L x 37" W x 3" H
<b>Power Source</b>	AC
<b>Voltage</b>	100-250 Volts
<b>Wattage</b>	16 watts
<b>Duty Cycle</b>	Non-continuous
<b>Capacity</b>	Up to 54,600 BTU/hr
<b>Flow Rate (zero head)</b>	2.9-3.2 GPH
<b>Flow Rate (33ft head)</b>	1.3-1.5 GPH
<b>Sound Level</b>	25.5 dB(A)
<b>Dry Contacts</b>	3A NC rated @ 5A inductive at 230V AC
<b>Lineset Elbow Casing</b>	H-5 1/4" x W-5 1/4" x D-2 3/4"
<b>Lineset Duct Casing</b>	H-31" x W-5 1/4" x D-2 3/4"

## 5. SETUP AND INSTALLATION

The Aspen Mini Lime pump is designed for easy installation, either to the left or right of the indoor unit. No complex connecting tubes or wires are needed between the pump and reservoir as they are integrated.

- Positioning:** Mount the pump outside the evaporator unit. The design allows it to be clipped directly onto the reservoir for minimal suction lift.
- Drainage Connection:** Connect the condensate drain line from the mini-split AC system to the pump's inlet. Ensure a secure and leak-free connection.
- Discharge Line:** Connect the pump's discharge outlet to the provided drain line, ensuring it leads to an appropriate disposal point. The pump includes an anti-siphon device.
- Electrical Connection:** Connect the pump to a suitable power supply (100-250V AC) as per local electrical codes.
- Lineset Cover Installation:** Install the Fortress white lineset cover to conceal the refrigerant lines, electrical wiring, and the condensate pump, providing a neat and professional appearance.



Figure 1: RectorSeal Aspen Mini Lime Univolt Condensate Pump with included Fortress Lineset Cover.

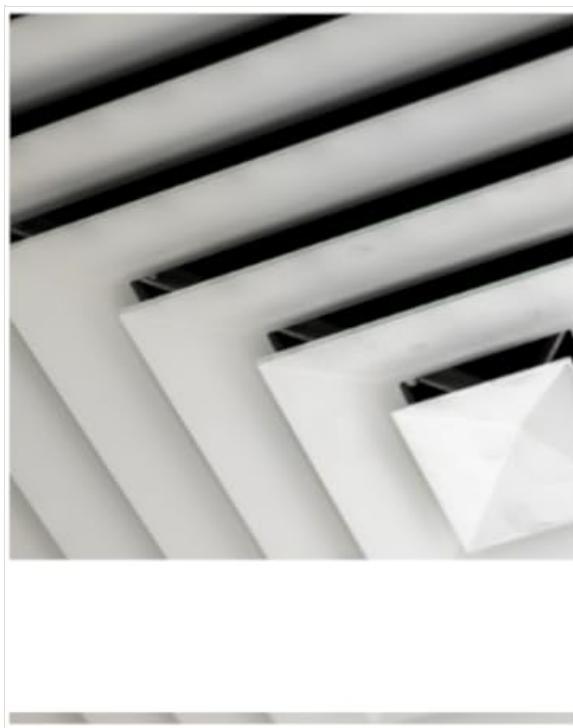


Figure 2: Close-up view of the Aspen Mini Lime Condensate Pump unit, highlighting its compact design.

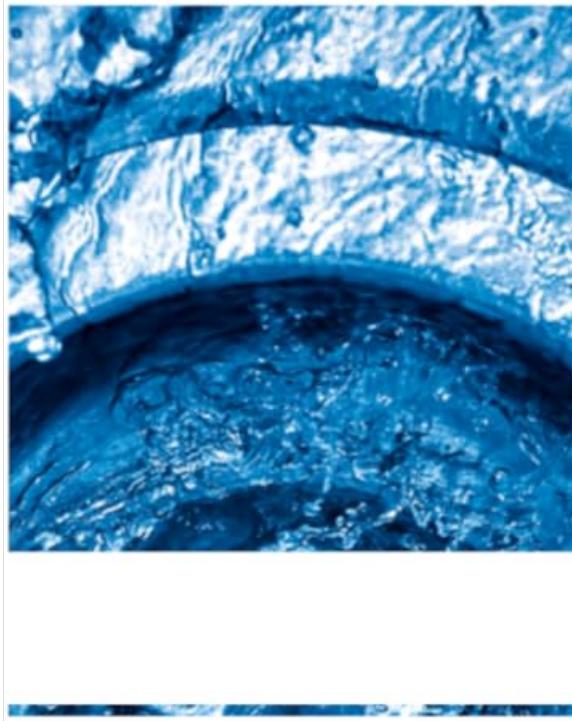


Figure 3: Internal view of the condensate pump mechanism, showing the float switch and pump components.

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Video 1: An animated demonstration of how the Aspen Mini-Lime Univolt Pump operates within a mini-split AC system, illustrating condensate collection and discharge.

## 6. OPERATION

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The Aspen Mini Lime Condensate Pump operates automatically to remove condensate from your mini-split AC system. As water collects in the transparent reservoir, a float switch activates the pump, which then discharges the water through the drain line. The pump is designed for quiet operation, with a sound level of 25.5 dB(A).

The pump's self-priming assembly is epoxy-filled, enhancing its resistance to shock, vibration, moisture, and chemicals, while also contributing to sound dampening.

## 7. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your condensate pump.

- 1. Filter Cleaning:** The transparent reservoir is designed for easy access. Simply clip off the reservoir to access and clean the filter. Inspect and clean the filter periodically to prevent blockages.
- 2. Reservoir Inspection:** Regularly check the reservoir for any debris or sludge buildup. Clean as necessary to maintain proper operation.
- 3. Drain Line Check:** Ensure the discharge drain line is free of kinks, blockages, or leaks.
- 4. General Inspection:** Periodically inspect the pump and all connections for any signs of wear, damage, or leaks.

## 8. TROUBLESHOOTING

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If you encounter issues with your condensate pump, refer to the following common troubleshooting steps:

- **Pump Not Running:**

- Check power supply to the pump.
- Ensure the float switch is not stuck or obstructed.
- Inspect for blockages in the inlet or discharge lines.

- **Pump Running Continuously:**

- Check for a stuck float switch.
- Verify that the discharge line is not blocked or kinked, preventing water from being pumped out.
- Ensure the pump is not air-locked.

- **Water Leaks:**

- Inspect all connections for tightness.
- Check the reservoir for cracks or damage.

- **Excessive Noise:**

- Ensure the pump is securely mounted and not vibrating against other surfaces.
- Check for debris inside the pump or reservoir.

If problems persist after attempting these steps, contact customer support.

## **9. WARRANTY AND SUPPORT**

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For warranty information, please refer to the documentation included with your purchase or visit the official RectorSeal website. For technical support, replacement parts, or further assistance, please contact RectorSeal customer service.

**RectorSeal Contact Information:**

- Website: [www.rectorseal.com](http://www.rectorseal.com)
- Phone: 800-231-3345