

## Rectorseal 83859

# Rectorseal 83859 Aspen Mini Lime 100V to 250V Condensate Pump with Fortress Cover

## INSTRUCTION MANUAL

### Product Overview

The Rectorseal Aspen Mini Lime Condensate Pump is designed for efficient removal of condensate from air conditioning and refrigeration systems. Its unique design allows for direct clipping onto the reservoir, minimizing suction lift requirements. The pump is reversible and engineered for easy access, particularly for filter maintenance. This model includes a Fortress lineset cover for integrated installation.

This pump operates within a voltage range of 100V to 250V AC, making it versatile for various electrical systems. It features 3A normally open/normally closed (NO/NC) dry contacts, rated at 5A inductive at 230V AC, and fully potted electronics for enhanced durability and protection.

### Key Features

- **Versatile Installation:** Designed for left or right-hand installation to accommodate various setups.
- **Easy Maintenance:** Provides easy access for routine filter cleaning, ensuring optimal performance.
- **Integrated Lineset Cover:** Available with Fortress or Slim Line lineset cover styles for a neat and protected installation.
- **Advanced Electrical Contacts:** Equipped with 3A NO/NC dry contacts, rated at 5A inductive at 230V AC, for reliable system integration.
- **Durable Construction:** Features fully potted electronics for increased longevity and resistance to environmental factors.

### Setup and Installation

Installation of the Aspen Mini Lime pump involves clipping it directly onto the condensate reservoir. This design minimizes the required suction lift. Ensure the pump is positioned correctly for either left or right-hand installation as needed for your specific application.

The included Fortress lineset cover should be utilized to protect the condensate lines and electrical wiring,

providing a clean and professional appearance. Refer to local electrical codes and HVAC installation best practices for proper wiring and drainage connections. Ensure the power source is within the specified 100V to 250V AC range.



*Image: The Rectorseal Aspen Mini Lime Condensate Pump kit, showing the main pump unit, green tubing, electrical connections, and components of the Fortress lineset cover.*

## Operating Instructions

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The Aspen Mini Lime Condensate Pump operates automatically, activating when the condensate level in the reservoir reaches a predetermined point and deactivating once the condensate has been pumped out. The pump's reversible nature allows for flexible integration into various condensate management systems.

The dry contacts provide a signal for system integration, allowing for connection to alarms or system shut-off mechanisms in case of high water levels. Consult your HVAC system's manual for details on connecting these contacts.

## Maintenance

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Regular maintenance is crucial for the longevity and efficient operation of your condensate pump. The Aspen Mini Lime pump is designed for easy access to its filter for cleaning.

- **Filter Cleaning:** Periodically inspect and clean the pump's filter to prevent blockages from debris and sediment. The frequency of cleaning will depend on the operating environment and condensate quality.
- **Reservoir Inspection:** Check the condensate reservoir for sludge or algae buildup and clean as necessary.
- **Hose and Connection Check:** Ensure all hoses and electrical connections are secure and free from leaks or damage.

Always disconnect power to the unit before performing any maintenance or inspection.

## Troubleshooting

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If the condensate pump is not operating as expected, consider the following general troubleshooting steps:

- **No Power:** Verify that the pump is receiving power within the specified voltage range (100V-250V AC). Check circuit breakers and electrical connections.
- **Pump Not Activating:** Ensure the reservoir float switch is not obstructed and can move freely. Clean the reservoir and filter if necessary.
- **Pump Running Continuously:** Check for blockages in the discharge line or a faulty float switch. Ensure the pump is not air-locked.

- **Leaks:** Inspect all connections and hoses for proper sealing. Check the pump housing for any cracks or damage.

For persistent issues, it is recommended to consult a qualified HVAC technician.

## Specifications

Manufacturer	Standard Plumbing Supply
Part Number	83859
Model Number	83859
Item Weight	3.34 pounds
Product Dimensions	3.75 x 3.13 x 1.63 inches
Color	Lime
Style	Condensate Pump
Power Source	Battery Powered ( <i>Note: Product description indicates 100V to 250V AC operation.</i> )
Item Package Quantity	1
Batteries Required?	No
Date First Available	June 23, 2015

## Warranty Information

Specific warranty details for the Rectorseal 83859 Aspen Mini Lime Condensate Pump are not provided in the available product information. Please refer to the manufacturer's official website or contact Rectorseal customer support for comprehensive warranty terms and conditions.

## Support

For technical assistance, product inquiries, or support, please contact Rectorseal directly. Contact information can typically be found on the manufacturer's official website or within the product packaging.

*Manufacturer:* Standard Plumbing Supply

*Brand:* Rectorseal

*Website:* [www.rectorseal.com](http://www.rectorseal.com)