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› Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2 User Manual

## Aspen Pumps FP2082/2

# Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2 User Manual

Model: FP2082/2

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2. Please read this manual thoroughly before attempting to install or operate the pump. Keep this manual for future reference.

The Aspen Pumps FP2082/2 is a peristaltic universal pump designed for condensate removal applications, offering reliable performance in various HVAC/R systems.

## 2. SAFETY INFORMATION

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**WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.**

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure the pump is installed by a qualified technician in accordance with local electrical and plumbing codes.
- Do not operate the pump if it is damaged or if any electrical wires are frayed or exposed.
- This pump is designed for condensate removal only. Do not use it for flammable liquids or other corrosive substances.
- Keep hands and foreign objects away from moving parts during operation.
- Ensure proper grounding of the electrical connection.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2
- Installation Kit (typically includes tubing, connectors, and mounting hardware)
- User Manual (this document)

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the pump's performance and longevity. Refer to the following steps:

### 4.1 Mounting the Pump

Select a suitable location for the pump, ensuring it is level, easily accessible for maintenance, and protected from extreme temperatures or direct sunlight. Use the provided mounting hardware to secure the pump firmly.



**Figure 1:** Example of the Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2. This image illustrates the general appearance of the pump, which should be securely mounted in its intended location, typically near the condensate source.

### 4.2 Plumbing Connections

- Connect the condensate drain line from the HVAC unit to the pump's inlet. Ensure a tight, leak-free connection.
- Connect the discharge tubing from the pump's outlet to a suitable drain point. Ensure the discharge line is routed with a continuous downward slope to prevent backpressure and is free from kinks or obstructions.
- Avoid creating siphons in the discharge line that could affect pump performance.

### 4.3 Electrical Connections

**WARNING: Electrical work should only be performed by a qualified electrician.**

- Ensure the power supply matches the pump's voltage requirements (refer to specifications).
- Connect the pump to a dedicated, fused electrical circuit.
- Follow all local electrical codes and regulations for wiring.

- Ensure the pump is properly grounded to prevent electrical hazards.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Initial Startup

- After completing all plumbing and electrical connections, ensure the condensate tray is filled with water to activate the pump's float switch.
- Restore power to the pump. The pump should activate, clear the condensate, and then shut off once the water level drops.
- Check for any leaks at the connections during the first operation cycle.

### 5.2 Normal Operation

The FP2082/2 pump operates automatically. When the condensate level in the collection reservoir reaches a predetermined level, the internal float switch activates the pump. The pump will run until the condensate is removed, then deactivate. This cycle repeats as needed.

## 6. MAINTENANCE

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

### 6.1 Routine Checks (Monthly)

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Visual Inspection:** Check the pump, tubing, and electrical connections for any signs of wear, damage, or leaks.
- **Cleanliness:** Inspect the condensate reservoir for sludge, algae, or debris buildup.
- **Float Switch:** Manually lift and lower the float to ensure it moves freely and activates the pump.

### 6.2 Cleaning Procedures (Quarterly or as needed)

- **Disconnect Power:** Turn off the power supply to the pump.
- **Remove Reservoir:** Carefully detach the condensate reservoir (if removable) and clean it thoroughly with warm, soapy water. Rinse completely.
- **Clean Tubing:** Inspect the inlet and outlet tubing for blockages. If necessary, flush with water or a mild cleaning solution.
- **Reassemble:** Reassemble all components, ensuring all connections are secure and leak-free.
- **Test Operation:** Restore power and test the pump's operation as described in Section 5.1.



**Figure 2:** The Aspen Pumps FP2082/2 Peristaltic Universal Pump MK2. Regular inspection of the pump's exterior and connections is part of routine maintenance to ensure proper function and prevent issues.

## 7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

| Problem                 | Possible Cause                                                                            | Solution                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Pump does not run       | No power supply<br>Float switch stuck or faulty<br>Motor failure                          | Check power connection and circuit breaker.<br>Clean reservoir, free the float. Replace if faulty.<br>Contact qualified service personnel. |
| Pump runs continuously  | Float switch stuck in 'on' position<br>Discharge line blocked or kinked<br>Pump airlocked | Clean reservoir, free the float.<br>Clear obstruction, straighten line.<br>Prime the pump by ensuring water fills the inlet.               |
| No water discharge      | Inlet or outlet blocked<br>Pump airlocked<br>Damaged pump head/tubing                     | Clear blockages in tubing.<br>Prime the pump.<br>Inspect and replace damaged components.                                                   |
| Unusual noise from pump | Debris in pump<br>Worn motor bearings<br>Improper mounting                                | Clean pump and reservoir.<br>Contact qualified service personnel.<br>Ensure pump is securely mounted.                                      |

## 8. SPECIFICATIONS

| Feature            | Detail                               |
|--------------------|--------------------------------------|
| Brand              | Aspen Pumps                          |
| Model Number       | FP2082/2                             |
| Item Type Name     | ASPEN PERISTALTIC UNIVERSAL PUMP MK2 |
| Power Source       | Electric with cord                   |
| Material           | Metal                                |
| Package Dimensions | 22.5 x 15 x 13 cm                    |
| Item Weight        | 1.9 kg                               |
| Manufacturer       | Aspen Pumps                          |

## 9. WARRANTY AND SUPPORT

Aspen Pumps products are manufactured to high standards and are backed by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Aspen Pumps website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact your local distributor or Aspen Pumps customer service.

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