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> Rola-Chem Pro Series Feed Pump RC-303-12 GPD (Model 543811) Instruction Manual

Rola-Chem 543811

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Your guide to installation, operation, and maintenance.

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Rola-Chem Pro Series Feed Pump RC-303-12 GPD, Model 543811. Please read these instructions thoroughly before installation and use. Proper installation and maintenance will ensure optimal performance and longevity of your pump.



Image: Rola-Chem Pro Series Feed Pump RC-303-12 GPD, Model 543811. This image shows the compact design of the peristaltic feed pump, typically used for chemical dosing in pools or spas.

SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of injury or damage:

- **Read all instructions:** Before operating the pump, ensure you have read and understood all instructions in this manual.
- **Electrical Safety:** Ensure the pump is connected to a properly grounded outlet. Do not operate with damaged cords or plugs. Disconnect power before servicing.
- **Chemical Handling:** Always wear appropriate personal protective equipment (PPE) when handling chemicals. Refer to chemical manufacturer's safety data sheets (SDS).
- **Installation:** Install the pump in a well-ventilated area, away from direct sunlight and extreme temperatures. Ensure stable mounting.
- **Children and Pets:** Keep the pump and chemicals out of reach of children and pets.
- **Intended Use:** This pump is designed for dispensing pool and spa chemicals. Do not use for other purposes without consulting the manufacturer.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Rola-Chem Pro Series Feed Pump (Model 543811)
- Peristaltic tubing (installed or separate)
- Injection fitting
- Suction tubing with foot valve/strainer
- Mounting hardware
- Instruction Manual

SETUP

1. Mounting the Pump

1. Select a suitable location: Choose a dry, well-ventilated area, protected from weather and direct sunlight. The pump should be mounted above the chemical container but below the injection point into the plumbing.
2. Secure the pump: Use the provided mounting hardware to securely fasten the pump to a vertical surface. Ensure it is level and stable.

2. Connecting Tubing

1. Suction Tubing:

- Cut the suction tubing to the appropriate length, ensuring it reaches the bottom of your chemical container.
- Attach the foot valve/strainer to one end of the suction tubing and place it into the chemical container.
- Connect the other end of the suction tubing to the pump's inlet port (typically marked "IN" or with an arrow pointing towards the pump).

2. Discharge Tubing:

- Cut the discharge tubing to the length required to reach the injection point in your pool/spa plumbing.
- Connect one end of the discharge tubing to the pump's outlet port (typically marked "OUT" or with an arrow

pointing away from the pump).

- Install the injection fitting into the pool/spa return line or other suitable point. Ensure the fitting is securely sealed to prevent leaks.
- Connect the remaining end of the discharge tubing to the injection fitting.

3. Electrical Connection

- Ensure the pump's power switch is in the "OFF" position.
- Plug the pump into a dedicated, grounded electrical outlet. Refer to the pump's label for voltage requirements.
- If connecting to a controller, follow the controller's instructions for wiring and integration.

OPERATING INSTRUCTIONS

1. Initial Startup and Priming

1. Ensure all tubing connections are secure and the foot valve is submerged in the chemical.
2. Turn the pump's power switch to the "ON" position.
3. The pump will begin to draw chemical. It may take a few minutes for the tubing to prime and for chemical to reach the injection point. Observe the tubing for chemical flow.
4. If the pump does not prime, check for air leaks in the suction line or ensure the chemical container is not empty.

2. Adjusting Flow Rate (GPD)

- The RC-303-12 GPD model has a fixed maximum flow rate of 12 Gallons Per Day.
- If your pump features a variable speed or adjustable stroke control, refer to the specific controls on your unit to set the desired chemical dosage. For this model, external control (e.g., timer, ORP/pH controller) is typically used to regulate dosing frequency.
- Monitor your pool/spa chemical levels regularly and adjust the pump's operating schedule or external controller settings as needed to maintain desired parameters.

3. General Operation

- Periodically check the chemical container to ensure it does not run dry. Operating the pump without chemical can damage the tubing.
- Inspect tubing for kinks, cracks, or blockages.
- Ensure the injection point is clear and not obstructed.

MAINTENANCE

1. Routine Checks

- **Weekly:** Inspect all tubing for wear, cracks, or discoloration. Check for leaks at connections.
- **Monthly:** Verify the foot valve/strainer in the chemical container is clean and free of debris.
- **Quarterly:** Check the pump head for any signs of chemical residue buildup.

2. Tubing Replacement

The peristaltic tubing is a wear item and will require periodic replacement depending on usage and chemical type.

1. Disconnect power to the pump.
2. Carefully remove the pump head cover (if applicable) or access the tubing.
3. Remove the old tubing, noting its orientation.

4. Install new, genuine Rola-Chem replacement tubing, ensuring it is correctly seated in the pump head.
5. Reassemble the pump head and reconnect power.

3. Cleaning

- Wipe down the exterior of the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- If chemical has spilled on the pump, clean it immediately to prevent corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running	No power; faulty motor; switch off	Check power connection, circuit breaker; ensure switch is ON. Contact support if motor is faulty.
Pump running but not priming/pumping chemical	Air leak in suction line; chemical container empty; clogged foot valve/strainer; worn peristaltic tubing; clogged discharge line/injection fitting	Check all connections for leaks; refill chemical; clean foot valve; replace peristaltic tubing; clear discharge line/injection fitting.
Chemical leaking from pump head	Damaged or worn peristaltic tubing; improper assembly of pump head	Replace peristaltic tubing; ensure pump head is correctly assembled and sealed.
Inconsistent chemical dosing	Air in lines; worn tubing; fluctuating power supply	Bleed air from lines; replace tubing; ensure stable power supply.

SPECIFICATIONS

- **Model:** RC-303-12 GPD (Part Number: 543811)
- **Brand:** Rola-Chem
- **Flow Rate:** 12 Gallons Per Day (GPD)
- **Manufacturer:** ROLA-CHEM CORPORATION
- **Item Weight:** 7.33 pounds
- **Product Dimensions:** 10.5 x 10 x 10 inches
- **Style:** Above Ground
- **Material:** Metal
- **UPC:** 757706000314

WARRANTY AND SUPPORT

Rola-Chem products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Rola-Chem website.

For technical assistance, replacement parts, or further inquiries, please contact Rola-Chem customer support.

- **Manufacturer:** ROLA-CHEM CORPORATION
- **Website:** www.rola-chem.com (Note: This is a placeholder URL, please verify the actual manufacturer website for support.)



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