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Rothenberger 61100

Rothenberger Rocal 20 Descaling Pump

MODEL 61100 - INSTRUCTION MANUAL

1. Important Safety Information

Read this instruction manual thoroughly before operating the Rothenberger Rocal 20 descaling pump. Failure to follow these instructions may result in injury, property damage, or damage to the pump.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing, when handling descaling chemicals.
- Ensure adequate ventilation in the work area to prevent inhalation of fumes from descaling agents.
- Never use the pump with flammable or explosive liquids.
- Disconnect the pump from the power source before performing any maintenance or cleaning.
- Keep children and unauthorized personnel away from the work area.
- Dispose of used descaling solutions according to local regulations.

2. Product Overview

The Rothenberger Rocal 20 is a robust and efficient descaling pump designed for removing limescale and other deposits from pipes, heat exchangers, and water heaters. Its durable construction ensures reliable performance for professional plumbing and maintenance tasks.



Figure 1: Rothenberger Rocal 20 Descaling Pump. This image shows the compact and robust design of the pump, including its main body, hoses, and connections, ready for descaling operations.

3. Setup and Preparation

- 1. Unpacking:** Carefully remove the pump and all accessories from the packaging. Inspect for any signs of damage.
- 2. Hose Connections:** Connect the supply and return hoses to the pump. The pump connections are typically 1/2 inch. For connecting to standard household faucets, a 3/8 inch pipe piece with a faucet thread adapter may be required. Ensure all connections are secure to prevent leaks.
- 3. Prepare Descaling Solution:** Fill the pump's reservoir with the appropriate descaling agent (e.g., acetic acid or citric acid solution). The minimum fill quantity for the pump is approximately 5 liters of acid solution plus 2-3 liters of water. Always follow the descaling agent manufacturer's instructions for dilution

and safety.

4. System Preparation:

- Turn off the hot water boiler and any circulation pumps in the system.
- Close the main hot water supply valve to isolate the section to be descaled.
- Open the hot water taps (e.g., at the sink and shower) completely to drain residual water and allow for connection.
- The cold water supply can remain open.

4. Operating Instructions

- Connect to System:** Attach the pump's hoses to the hot water outlets (e.g., faucet, shower hose connection) of the system to be descaled. Ensure a closed circuit is formed for the descaling solution to circulate.
- Start Pumping:** Plug in the pump and switch it on. The descaling solution will begin to circulate through the system.
- Change Flow Direction:** To ensure thorough descaling and dislodge stubborn deposits, change the pumping direction approximately every 5 minutes. This can typically be done via a switch on the pump.
- Descaling Duration:** Allow the pump to run for at least one hour, or as recommended by the descaling agent manufacturer, depending on the severity of the limescale buildup. Monitor the process and the condition of the solution.
- Flush System:** After the descaling process is complete, switch off and disconnect the pump. Reopen the main hot water supply valve and thoroughly flush the system with plenty of fresh water until all traces of the descaling agent are removed.

5. Maintenance

- Cleaning:** After each use, thoroughly clean the pump and hoses with fresh water to remove any residual descaling agent. This prevents corrosion and extends the life of the equipment.
- Storage:** Store the pump in a clean, dry place, away from direct sunlight and extreme temperatures.
- Inspection:** Periodically inspect hoses, connections, and the pump body for wear or damage. Replace any damaged parts immediately.

6. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power supply; clogged impeller; motor fault.	Check power connection; inspect and clear impeller; contact service if motor fault.
Low flow rate	Hoses kinked or blocked; insufficient liquid in reservoir; air in system.	Check hoses for kinks/blockages; ensure adequate liquid level; bleed air from system.
Leakage from connections	Loose connections; damaged seals or hoses.	Tighten all connections; inspect and replace damaged seals or hoses.

If problems persist after attempting these solutions, please contact Rothenberger customer support.

7. Technical Specifications

Brand	Rothenberger
Model Number	61100
Color	Black
Material	Metall
Style	Submersible
Product Dimensions (L x W x H)	15.75" x 15.75" x 26.38"
Power Source	Electric (240 Volts)
Item Weight	9 Kilograms (19.8 pounds)
Maximum Flow Rate	40 Liters Per Minute
Voltage	240 Volts
GTIN	04004625611005

Note on Power Source: While some specifications may list 'Hand-operated', the pump operates on 240 Volts, indicating it is electrically powered. This may refer to a manual control aspect rather than the primary power source.

8. Warranty and Support

The Rothenberger Rocal 20 descaling pump is covered by the manufacturer's standard warranty. For specific warranty terms, claims, or technical support, please refer to the official Rothenberger website or contact their customer service department directly. Keep your purchase receipt as proof of purchase.

Rothenberger Official Website: www.rothenberger.com

Customer Service: Refer to the website for regional contact information.