

Riello RG1R 3007656

Riello RG1R 3007656 Nozzle Assembly Instruction Manual

Model: RG1R 3007656 | Brand: Riello

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Riello RG1R 3007656 Nozzle Assembly. This component is designed for use with Riello Gulliver RG1R-364T1 burners. Please read this manual thoroughly before proceeding with any installation or operation to ensure safe and efficient use.

Product Description: The Riello RG1R 3007656 is a complete nozzle assembly that includes a preheating element and a thermostat. It is specifically designed for compatibility with Gulliver RG1R-364T1 burner models.

SAFETY INFORMATION

- Installation and maintenance must be performed by qualified personnel only.
- Ensure the power supply to the burner is disconnected before any installation or maintenance work.
- Refer to the main burner manual for additional safety guidelines.
- Wear appropriate personal protective equipment (PPE) during installation and servicing.

PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- Riello RG1R 3007656 Nozzle Assembly (with preheating and thermostat)
- Instruction Manual (this document)



Figure 1: Side view of the Riello RG1R 3007656 Nozzle Assembly. This image shows the brass nozzle body, the electrical connections for the preheater and thermostat, and the mounting bracket.

SETUP AND INSTALLATION

1. Preparation:

- Ensure the burner is completely shut down and isolated from the electrical supply.
- Allow the burner to cool down if it has been in operation.
- Gather necessary tools (e.g., wrenches, screwdrivers, multimeter).

2. Removal of Old Nozzle Assembly (if applicable):

- Carefully disconnect any electrical wiring connected to the old nozzle assembly. Note the wiring configuration for reinstallation.
- Unscrew and remove the old nozzle assembly from the burner head.

3. Installation of New Nozzle Assembly:

- Insert the new Riello RG1R 3007656 Nozzle Assembly into the designated position on the burner head.
- Secure the assembly firmly, ensuring proper alignment.
- Connect the electrical wiring to the preheating element and thermostat. Refer to the burner's wiring diagram for correct connections. Ensure all connections are secure.

4. Verification:

- Double-check all connections and ensure the assembly is securely mounted.
- Confirm that no tools or foreign objects are left inside the burner.



Figure 2: Top-down view of the Riello RG1R 3007656 Nozzle Assembly. This perspective highlights the electrical connector and the overall compact design of the unit.

OPERATING INSTRUCTIONS

The Riello RG1R 3007656 Nozzle Assembly operates in conjunction with the main burner control system. Once installed, its operation is largely automatic.

1. **Power On:** Restore electrical power to the burner system.
2. **Preheating Cycle:** The integrated preheating element will activate automatically to bring the fuel to

the optimal temperature before ignition. The thermostat monitors and regulates this temperature.

3. **Burner Start-up:** Initiate the burner start-up sequence as per the main burner's operating manual. The preheated fuel will be atomized and ignited.
4. **Normal Operation:** The nozzle assembly will continue to function, ensuring consistent fuel delivery and temperature regulation during burner operation.

Note: Do not attempt to manually adjust the thermostat on the nozzle assembly unless specifically instructed by a qualified technician or the main burner manual. Improper adjustments can lead to inefficient operation or safety hazards.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of the nozzle assembly. All maintenance should be performed by qualified service personnel.

- **Annual Inspection:** It is recommended to inspect the nozzle assembly annually as part of the burner's routine maintenance.
- **Nozzle Cleaning/Replacement:** Over time, nozzles can become clogged or worn. Inspect the nozzle for signs of wear, damage, or carbon buildup. Replace the nozzle if necessary.
- **Electrical Connections:** Check all electrical connections for tightness and signs of corrosion.
- **Preheater and Thermostat Check:** Verify the proper functioning of the preheating element and thermostat using appropriate testing equipment.



Figure 3: Angled view of the Riello RG1R 3007656 Nozzle Assembly. This view provides a clearer look at the wiring harness and the connection points.

TROUBLESHOOTING

This section provides basic troubleshooting steps. For complex issues, consult a qualified technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Burner fails to ignite	Nozzle clogged or damaged; Preheater malfunction; Thermostat issue; Incorrect wiring.	Inspect and clean/replace nozzle. Check preheater and thermostat functionality. Verify electrical connections.
Poor flame quality	Partially clogged nozzle; Incorrect fuel temperature.	Clean or replace nozzle. Check preheater and thermostat operation.
Preheater not working	Electrical fault; Faulty preheater element.	Check electrical supply and connections. Test preheater element for continuity. Replace if faulty.

SPECIFICATIONS

- **Model:** Riello RG1R 3007656
- **Compatibility:** Riello Gulliver RG1R-364T1 Burners
- **Components:** Nozzle, Preheating Element, Thermostat
- **Manufacturer:** Riello
- **ASIN:** B08L5VB4P3

WARRANTY AND SUPPORT


For warranty information and technical support, please refer to the documentation provided with your complete Riello burner system or contact your authorized Riello dealer. Specific warranty terms for individual components like this nozzle assembly are typically covered under the main burner's warranty.

Manufacturer: Riello

Contact: Please refer to the official Riello website or your local distributor for service contact information.

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Related Documents - RG1R 3007656

	<p>Priročnik za namestitev, uporabo in vzdrževanje gorilnika RIELLO Gulliver RG1NR na plinsko olje</p> <p>Ta dokument vsebuje podrobna navodila za namestitev, uporabo, vzdrževanje in odpravljanje napak enostopenjskega gorilnika RIELLO Gulliver RG1NR na plinsko olje, vključno s tehničnimi podatki, varnostnimi predpisi in postopki za odpravljanje težav.</p>
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[Riello Gulliver RG2F Oil Burner Parts List and Diagram](#)

Detailed spare parts list and component diagram for the Riello Gulliver RG2F light oil burner (Model 377T1, Code 3737770), including part numbers and English descriptions.



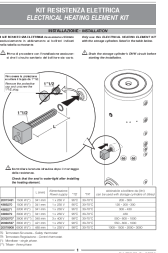
[Hi, Comfort 100 Installer and User Manual](#)

Comprehensive installer and user manual for the Riello Hi, Comfort 100 smart thermostat. Learn about installation, configuration, operation, and features for efficient home heating control.



[RIELLO Hi, Comfort 100: Installer and User Manual for Smart Heating Control](#)

This comprehensive manual provides detailed instructions for installing, commissioning, and using the RIELLO Hi, Comfort 100 smart thermostat. Learn about its features, modes, and troubleshooting.



[Riello Electrical Heating Element Kit Installation and Wiring Guide](#)

Detailed installation instructions, wiring diagrams, and technical specifications for the Riello Electrical Heating Element Kit. Includes safety guidelines and product compatibility information.



[Riello 40 Series Residential Oil Burners F3 & F5 Installation Manual](#)

This manual provides detailed installation instructions for Riello 40 Series Residential Oil Burners, models F3 and F5. It covers component identification, setup, mounting, electrical connections, nozzle placement, and adjustment procedures. The manual is intended for retrofit applications and includes technical data, specifications, and spare parts lists.