

Broan RM503604

Broan RM503604 Elite Rangemaster Wall-Mounted Chimney Hood User Manual

Model: RM503604

1. INTRODUCTION

Thank you for choosing the Broan RM503604 Elite Rangemaster Wall-Mounted Chimney Hood. This manual provides essential information for the safe installation, operation, and maintenance of your new range hood. Please read it thoroughly before use and retain it for future reference.

The Broan Elite RM50000 series wall-mounted chimney hood combines graceful curves with traditional European styling, designed to complement modern kitchen aesthetics. It features a powerful ventilation system and user-friendly controls to enhance your cooking experience.

2. SAFETY INFORMATION

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, or injury to persons.

- Read all instructions before installing or operating this appliance.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back-drafting.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- To reduce the risk of fire, use only metal ductwork.
- Clean grease laden surfaces frequently. Accumulation of grease may result in fire.
- Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite.
- Always turn hood ON when cooking at high heat or when flaming foods.
- Do not use this unit with any solid-state speed control device.

3. PACKAGE CONTENTS

Before beginning installation, ensure all parts are present and undamaged. The package should contain:

- Broan RM503604 Chimney Hood Unit
- Mesh Filter(s)
- Non-Ducted Conversion Kit (for recirculation)
- Two 40-Watt Incandescent Lights (pre-installed or included)
- Instruction Manual
- Parts Bag (containing mounting hardware)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your range hood. It is recommended that installation be performed by a qualified professional.

4.1 Mounting Height

Install the hood so that the bottom of the unit is positioned **24 to 30 inches** above the cooking surface. The exact mounting height will be determined by your ceiling height and personal preference, ensuring optimal capture of cooking fumes.

4.2 Ducting Options

The Broan RM503604 is designed for both ducted and non-ducted (recirculating) installations.

- **Ducted Installation:** The 35-7/16-inch unit with telescopic flues is designed to fit 8-foot to 9-foot ceilings with a 6-inch round duct. For ceilings up to 10 feet, optional ducted flue extensions can be purchased separately. Ensure all ductwork is properly sealed.
- **Non-Ducted (Recirculating) Installation:** A non-ducted kit and charcoal filter are included for indoor exhaust recirculation. This option is suitable when external venting is not feasible. The charcoal filter helps remove odors from the air before it is returned to the kitchen.

4.3 Electrical Connection

The unit operates on 120 Volts. Ensure the electrical supply meets the requirements and is installed by a licensed electrician according to local codes.



A full view of the Broan RM503604 Elite Rangemaster Wall-Mounted Chimney Hood, showcasing its stainless steel finish and elegant design.

5. OPERATING INSTRUCTIONS

Your Broan RM503604 range hood is designed for ease of use with intuitive controls.

5.1 Fan Operation

The hood features a multi-speed slide control for fan operation. Slide the control to select one of the 4 available fan speeds to match your cooking needs. The fan has an airflow capacity of 290 CFM.

5.2 Heat Sentry Feature

The integrated Heat Sentry feature automatically detects excessive heat above the cooking surface. When high heat is detected, the system automatically adjusts the blower speed to its highest setting to ensure efficient removal of smoke and odors, providing an added layer of safety and convenience.

5.3 Lighting

The hood is equipped with dual 40-watt incandescent lamps. Use the dedicated light switch to turn the lights on or off, providing illumination for your cooking area.

6. MAINTENANCE

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

6.1 Cleaning the Grease Filters

The mesh grease filters are designed to capture grease particles from cooking fumes. These filters are **dishwasher-safe** and feature a quick-release latch for easy removal. Clean them regularly (e.g., monthly, or more frequently depending on cooking habits) to prevent grease buildup, which can reduce airflow and pose a fire hazard.

1. Ensure the hood is turned off and cool.
2. Locate the quick-release latch on each filter.
3. Press the latch and carefully pull down the filter to remove it.
4. Wash the filters in a dishwasher or by hand using hot water and a mild detergent.
5. Allow filters to dry completely before re-installing.
6. Align the filter with the slots and push up until the latch clicks into place.

6.2 Replacing Charcoal Filters (Non-Ducted Installation)

If your hood is set up for non-ducted (recirculating) operation, the charcoal filters will need periodic replacement. Refer to the specific instructions included with your non-ducted conversion kit for replacement frequency and procedure. Typically, charcoal filters should be replaced every 3-6 months depending on usage.

6.3 Cleaning Exterior Surfaces

The stainless steel exterior can be cleaned with a soft cloth and a non-abrasive stainless steel cleaner. Always wipe in the direction of the grain to avoid scratching. Avoid using abrasive pads or cleaners that contain bleach.

6.4 Replacing Light Bulbs

To replace the 40-watt incandescent bulbs, ensure the power to the hood is off. Carefully remove the old bulb and screw in a new one of the same type and wattage.

7. TROUBLESHOOTING

If you experience issues with your range hood, consult the following common troubleshooting steps. For problems not listed here, contact Broan customer service.

Problem	Possible Cause	Solution
Hood does not operate	No power supply Fan switch off	Check circuit breaker/fuse. Ensure fan switch is in ON position.
Poor suction	Grease filters clogged Ductwork obstructed/leaking Incorrect mounting height	Clean grease filters. Check ductwork for obstructions or leaks. Verify hood is mounted 24-30 inches above cooking surface.
Excessive noise	Loose parts Ductwork issues Motor issue	Check for loose screws or components. Inspect ductwork for proper installation and sealing. Contact customer service if motor noise persists.
Lights not working	Bulb burned out Light switch off	Replace bulb. Ensure light switch is in ON position.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	RM503604
Dimensions (D x W x H)	19.63" x 33" x 35.44"
Air Flow Capacity	290 Cubic Feet Per Minute (CFM)
Airflow Displacement	1270 Cubic Feet Per Minute (CFM)
Voltage	120 Volts
Number of Speeds	4
Noise Level	6.5 Sones
Material	Alloy Steel, Stainless Steel
Mounting Type	Wall Mount, Built-In Mount
Controls Type	Slide Control
Light Source Type	Incandescent (Dual 40-watt lamps)
Filter Type	Mesh (Dishwasher-safe)
Ventilation Type	Ductless/Recirculating (convertible)
Special Features	Adjustable, Easy To Clean, Removable, Heat Sentry
Item Weight	1 pound
Specification Met	Energy Star

9. WARRANTY AND SUPPORT

9.1 Manufacturer Warranty

Broan offers a **Free 10-year Warranty on Major Components** for the RM503604 Elite Rangemaster Wall-Mounted Chimney Hood. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official Broan website or contact customer service.

9.2 Customer Support

For technical assistance, parts inquiries, or warranty service, please contact Broan customer support. You can find contact information on the official Broan-NuTone website or through the retailer where you purchased the product. When contacting support, please have your model number (RM503604) and date of purchase readily available.