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Broan-NuTone 164

Broan-NuTone Model 164: Infrared Two-Bulb Ceiling Heater with Fan User Manual

Model: 164

Product Overview

The Broan-NuTone Model 164 is a versatile ceiling-mounted unit designed to provide both supplemental heating and ventilation for bathrooms and similar indoor spaces. It integrates two infrared heat lamps and a powerful exhaust fan into a single, compact housing. This unit is engineered for energy-efficient operation, delivering instant warmth and effective moisture and odor removal. Its Type IC (Insulation Contact) rating allows for installation directly in insulated ceilings, ensuring a clean and integrated appearance.

Safety Information

Before installation or operation, read and understand all instructions. Failure to follow these instructions may result in electric shock, fire, or serious injury. This unit must be installed by a qualified electrician in accordance with all national and local electrical codes. Always disconnect power at the service panel before working on or near the unit. Use only 250-Watt R40 or BR40-size infrared bulbs (not included) as specified. Do not use bulbs exceeding the maximum wattage. Ensure proper grounding to prevent electrical hazards. This unit is designed for indoor use only.

Setup and Installation

The Broan-NuTone Model 164 is designed for straightforward installation in ceilings. The compact steel housing features adjustable mounting brackets with keyhole slots, allowing for flexible positioning between joists up to 24 inches apart. A 4-inch round duct connector with tapered sleeves simplifies ducting connections. This unit is Type IC rated, meaning it can be installed in direct contact with insulation.



Figure 1: Broan-NuTone Model 164 unit, showing the housing, fan, and bulb receptacles before bulb installation.



Figure 2: Installation diagram with key dimensions for rough-in and final placement.

Wiring and Controls:

The unit requires a 120-Volt, 4.5 Amp electrical connection. It can be wired to allow simultaneous or separate control of the heater and ventilation fan. Compatible wall controls (sold separately) include models such as 57W, 57V, 59W, 59V, 61W, 61V, 63W, 63V, 64W, 64V, 68W, 68V, 70TW, 71V, 72W, 72V, 269WL, 269VL, DH100W, or T24HWHY. Ensure all wiring connections are secure and properly insulated within the junction box before mounting the unit.

Bulb Installation:

This unit requires two 250-Watt R40 or BR40-size infrared bulbs (not included). Carefully screw the bulbs into the receptacles. Ensure they are securely seated but do not overtighten.



Figure 3: Broan-NuTone Model 164 with infrared bulbs installed and operating.

Operating Instructions

The Broan-NuTone Model 164 provides both heating and ventilation functions. Depending on your wiring configuration, these functions can be operated independently or simultaneously via the wall control(s). The infrared bulbs deliver immediate, focused warmth, ideal for quick heating of a bathroom. The integrated fan operates at 70 Cubic Feet Per Minute (CFM) with a quiet 4.0 Sones rating, effectively removing steam and odors from spaces up to 60 square feet.

Your browser does not support the video tag.

Video: Overview of Broan Bath Ventilation Fans Product Line. This video demonstrates the general functionality and benefits of Broan-NuTone ventilation fans, including their role in improving indoor air quality.

Maintenance

The motor in your Broan-NuTone Model 164 is permanently lubricated and requires no routine maintenance. For optimal performance and longevity, periodic cleaning of the unit is recommended. The complete heater assembly can be conveniently removed from the housing for cleaning.

Cleaning Instructions:

1. **Disconnect Power:** Always turn off power to the unit at the service panel before cleaning.
2. **Remove Grille:** Carefully detach the white grille from the ceiling.
3. **Clean Grille:** Wash the grille with a mild detergent and warm water. Rinse thoroughly and allow to dry completely before reinstallation.
4. **Clean Interior:** Use a soft cloth or brush to gently remove dust and debris from the fan blades, motor housing, and bulb receptacles. A vacuum cleaner with a brush attachment can also be used.
5. **Replace Bulbs (if needed):** If bulbs are burnt out or dim, replace them with new 250-Watt R40 or BR40-size infrared bulbs.
6. **Reassemble:** Once all components are clean and dry, reassemble the unit and restore power.

Troubleshooting

If your Broan-NuTone Model 164 is not operating as expected, consult the following common issues and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Unit does not operate (no heat, no fan)	No power, tripped circuit breaker, loose wiring connection.	Check circuit breaker/fuse. Verify power supply and wiring connections. Consult a qualified electrician if unsure.
Heater bulbs not glowing	Burnt out bulbs, incorrect bulb type, loose connection.	Replace bulbs with specified 250-Watt R40/BR40 infrared bulbs. Ensure bulbs are screwed in tightly.
Fan not operating or making unusual noise	Obstructed fan blades, motor issue, fan out of alignment.	Disconnect power and check for obstructions. If fan blades are rubbing, gently realign the motor assembly. If noise persists or fan does not operate, professional service may be required.
Fan turns on unexpectedly	Integrated temperature sensor activated.	The unit has a thermal overload protection feature that may activate the fan if the internal temperature becomes too high. This is a safety mechanism. Ensure proper ventilation and clear any obstructions.

Specifications

Brand: Broan-NuTone

Model: 164

Type: Type IC Infrared Two-Bulb Ceiling Heater with Fan

Color: White

Power Source: Electric

Voltage: 120 Volts

Amperage: 4.5 Amps

Wattage: 545 watts (total, including bulbs)

Heat Output: Requires two 250-Watt R40 or BR40-size Infrared bulbs (not included)

Fan Air Flow Capacity: 70 Cubic Feet Per Minute (CFM)

Sones Rating: 4.0 Sones

Heating Coverage: Up to 60 square feet

Mounting Type: Ceiling Mount

Product Dimensions: 5.63"D x 10.25"W x 0.88"H (grille dimensions, housing is larger)

Item Weight: 8.56 pounds

Material: Plastic (grille), Steel (housing)

Country of Origin: China

Warranty and Support

Broan-NuTone products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official Broan-NuTone website. For technical assistance, replacement parts, or further support, please contact Broan-NuTone customer service. Contact information can typically be found on the product packaging or the official brand website.

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