

SUPROCKY RTR75

SUPROCKY RTR75 Room to Room Air Transfer Fan User Manual

Model: RTR75 | Brand: SUPROCKY

1. INTRODUCTION

The SUPROCKY RTR75 Room to Room Air Transfer Fan is designed to efficiently balance room temperatures by transferring air between adjacent spaces. This intelligent system helps improve indoor air quality and can contribute to energy savings by optimizing the performance of your HVAC system. It features programmed air exchange, 5-speed control, and an integrated temperature sensor for customizable comfort.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your RTR75 fan. Please read it thoroughly before beginning installation or operation.

2. IMPORTANT SAFETY INFORMATION

WARNING: To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- This product requires hardwiring. Ensure power is disconnected at the circuit breaker before installation or servicing.
- Do not use this fan with any solid-state speed control device unless specifically designed for this unit.
- Do not use this unit in areas where water or excessive moisture is present (e.g., bathrooms, laundry rooms).
- Always ensure proper grounding.
- Keep fingers and foreign objects away from the fan blades and moving parts.
- Do not operate any fan with a damaged cord or plug. Discard fan or return to an authorized service facility for examination and/or repair.

3. PRODUCT OVERVIEW

3.1 Components

- Main Fan Unit (Motor, Fan, Control Panel)

- Diffuser Grille
- Mounting Hardware

3.2 Key Features

- **Intelligent Programming:** Offers Cooling Trigger, Heating Trigger, and Continuous Operation modes.
- **Temperature Sensor:** Allows setting a desired temperature range (35°F to 99°F) for automatic operation.
- **5-Speed Control:** Adjustable fan speed for optimal airflow and noise levels.
- **Efficient Air Transfer:** 90 CFM airflow capacity, suitable for rooms up to 200 sq. ft.
- **Light-blocking and Soundproof Design:** Grille and Diffuser placement helps prevent light and sound transfer.
- **Durable Construction:** Housing and core components made of galvanized sheet metal with electrophoresis and painting process to prevent rusting.



Figure 3.1: Front and top view of the RTR75 fan unit and diffuser.



Mode

Choose the different modes:

Cooling Trigger, Heating Trigger, or Continuous Operation.
Press and hold this button can turn on/off the fan.



Set

Change the temperature setting:

Temperature can be set from 35 °F to 99 °F.
The fan will stop when the specified temperature is reached.



Speed

Adjust the wind speed:

There are five adjustable speeds in total
Press and hold the fan speed button, the screen will turn off.



Smart Control at Your Fingertips

Figure 3.2: Close-up of the RTR75 control panel with Mode, Set, and Speed buttons.

Flowing Comfort from Room to Room

Room to room fan offers a relatively affordable way to improve airflow compared to using an HVAC system.





Intelligent Programming



Easy to Install



Silent Working



Sound Insulation & Blackout

Figure 3.3: The RTR75 fan providing flowing comfort from room to room, highlighting intelligent programming, easy installation, silent operation, and sound insulation.

4. SETUP & INSTALLATION

Proper installation is crucial for the optimal performance and safety of your RTR75 fan. This product requires hardwiring. If you are not comfortable with electrical wiring, please consult a qualified electrician.

4.1 Pre-Installation Checklist

- Ensure wall studs are spaced a minimum of 16 inches on center.
- It is recommended to choose a stud wall section that contains a power outlet for wiring.
- Verify that all necessary tools and materials are available (e.g., drywall saw, measuring tape, wiring tools).
- **IMPORTANT:** Until the installation is complete, no lines can be energized!

4.2 Installation Steps

1. **Find a suitable installation position:** The typical installation is to install the diffuser at a high place and the blower (main fan unit) at a low place. If you want to get air from the ceiling, install the diffuser at a low place and note that you need to change the direction of the fan installation.
2. **Cut openings:** Cut a 13.5" x 1.3" hole for installing the diffuser, and a 13.8" x 4.8" hole on the other side of the wall for installing the main fan unit.
3. **Provide power:** Provide a switched 115 VAC power supply with wires long enough to connect to the motor leads of the RTR75 motor wires.
4. **Connect ports:** Connect ports according to the circuit diagram (refer to the detailed wiring diagram in the included paper manual).
5. **Secure and install panels:** After confirming that all interfaces are properly connected, arrange the internal cables so that no wires touch the fan, and then install the panel on the wall. Screw on the screws to fix it.

Specifications

MODEL: RTR75

DESIGN:
Smart Programming

POWER USAGE: 18 Watts

WATERPROOF RATING: IP44

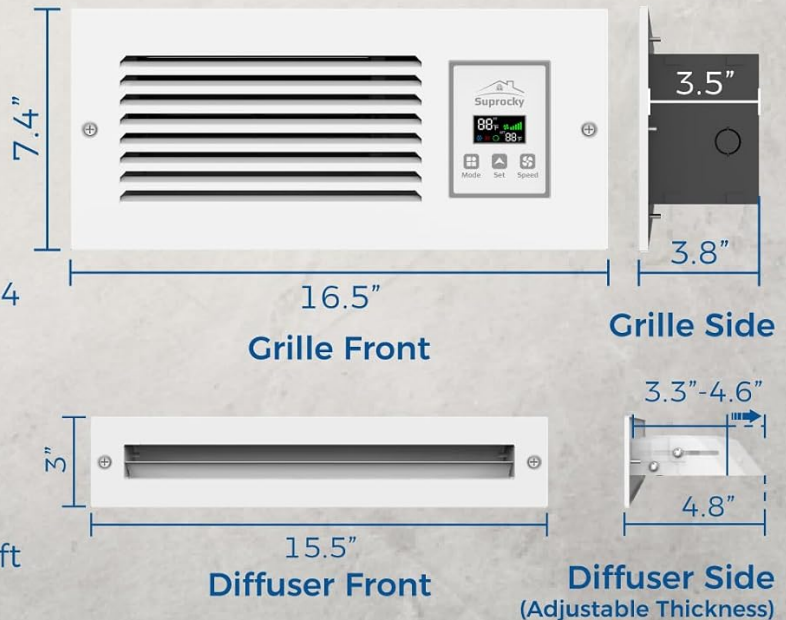
ENERGY: DC-Motor PWM

AIRFLOW: 90CFM

NOISE: 42dBA

SENSOR: Temperature

APPLICABLE AREA: 200 sq.ft



Grille Hole



Diffuser Hole



Installation Steps

1. Cut a **13.5"x1.3"** hole for installing the diffuser, and cut a **13.8"x4.8"** hole on the other side of the wall for installing the fan.
2. Connect the power cord according to the instructions.
3. Install the room to room fan.
4. Screw on the screws to fix it.

Note: This product needs wiring, please pay attention.

1. Wall studs must be spaced a minimum of 16" o.c.
2. It's better to choose a stud wall section that contains a power outlet for wiring.

Figure 4.1: Diagram showing the required hole dimensions for the grille and diffuser, along with a summary of installation steps.

This product needs wiring, please pay attention before purchase.

1. Wall studs must be spaced a minimum of 16" o.c.
2. It's better to choose a stud wall section that contains a power outlet for wiring.
3. Note: Until the installation is complete, no lines can be energized!

The typical installation is to install the diffuser at a high place and the blower at a low place. However, if you want to get air from the ceiling, install the diffuser at a low place and note that you need to change the direction of the fan installation.

Installation Steps:

1. Find a suitable installation position.
2. Cut openings of appropriate size in the drywall on both sides of the wall.
3. Provide a switched 115 VAC power supply with wires long enough to connect to the motor leads of the RTR75 motor wires.
4. Connect ports according to the circuit diagram.
5. After confirming that the all interfaces are properly connected, arrange the internal cables so that no wires touch the fan, and then install the panel on the wall.

Please read the instruction manual for detailed operating procedures.

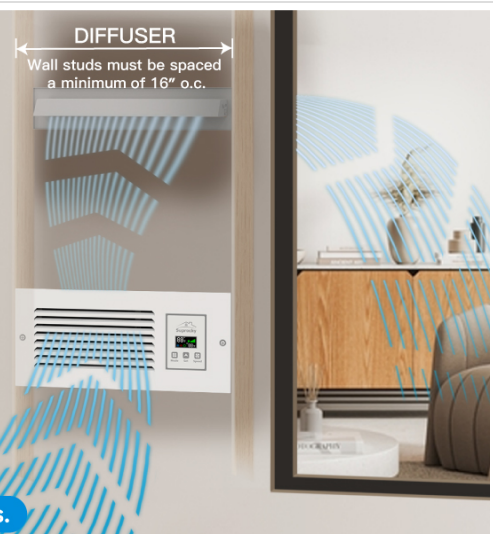


Figure 4.2: Important notes on wiring and detailed installation steps, emphasizing wall stud spacing and power supply requirements.

4.3 Installation Guidance Video

Your browser does not support the video tag.

Video 4.1: Official installation guidance for the SUPROCKY Room to Room Air Transfer Fan. This video demonstrates the physical installation process.

5. OPERATING INSTRUCTIONS

5.1 Control Panel Overview

The RTR75 features an intuitive control panel with three main buttons:

- **Mode Button:** Used to select operating modes (Cooling Trigger, Heating Trigger, Continuous Operation). Press and hold to turn the fan ON/OFF.
- **Set Button:** Used to adjust the temperature setting. Long press for quick temperature adjustment.
- **Speed Button:** Used to change the fan wind speed (5 cycles/speeds). Long press to turn off the screen for better sleep.



Figure 5.1: Detailed view of the control panel and its button functionalities.

5.2 Operating Modes

The RTR75 offers three distinct operating modes to suit various needs:

- **Cooling Trigger:** The fan will turn on when the ambient temperature is **lower** than the set value. Ideal for transferring cooler air into a warmer room.
- **Heating Trigger:** The fan will turn on when the ambient temperature is **higher** than the set value. Ideal for transferring warmer air into a cooler room.
- **Continuous Operation:** The fan runs continuously, independent of temperature. It stays on until it is manually turned off.

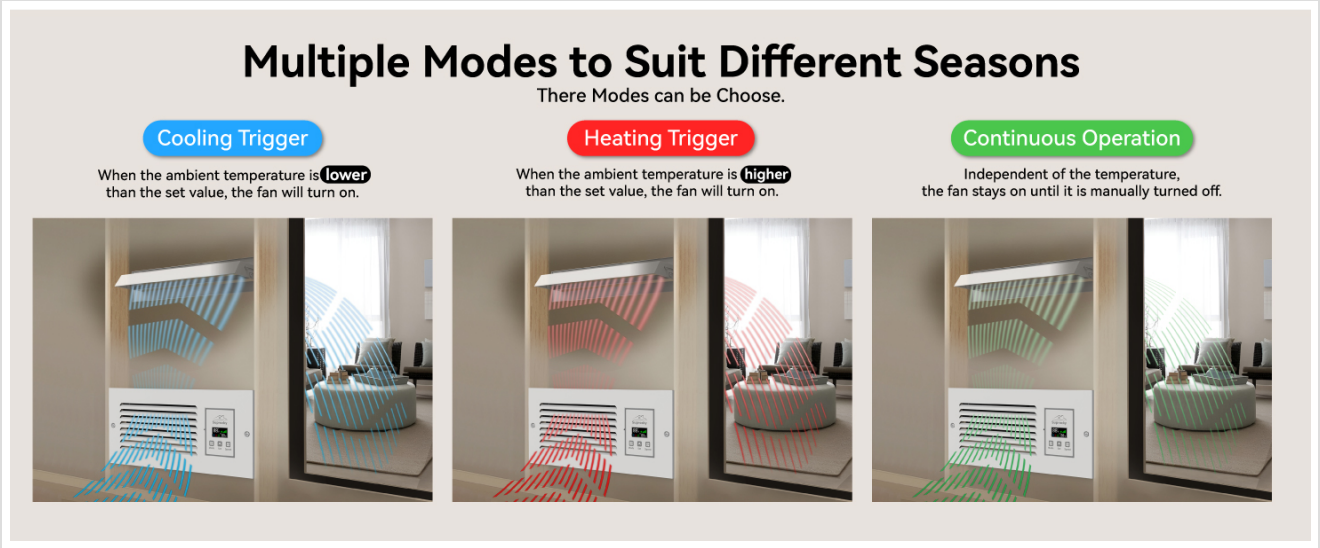


Figure 5.2: Visual representation of the three operating modes and their temperature-based triggers.

5.3 Temperature and Speed Adjustment

- **Temperature Setting:** The temperature can be set from 35°F to 99°F. The fan will stop when the specified temperature is reached (in trigger modes).
- **Wind Speed Adjustment:** There are five adjustable speeds in total. Press the Speed button to cycle through them.

Your browser does not support the video tag.

Video 5.1: Demonstration of the SUPROCKY Intelligent Room to Room Fan (RTR75) controls, including mode, temperature, and speed adjustments.



Figure 5.3: The RTR75 fan providing cost-effective airflow solutions, capable of setting temperatures between 35°F and 99°F with 5-

speed control.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your RTR75 fan.

- **Cleaning:** Periodically wipe the exterior surfaces of the fan and diffuser with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Internal Cleaning:** For internal cleaning of the fan blades, ensure the power is completely disconnected. Carefully remove the grille and gently clean the fan blades with a soft brush or compressed air.
- **Inspection:** Annually inspect the wiring and connections for any signs of wear or damage. If any issues are found, contact a qualified technician.

7. TROUBLESHOOTING

If you encounter issues with your RTR75 fan, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; Incorrect wiring; Fan is in standby mode.	Check circuit breaker; Verify wiring connections; Press and hold the Mode button to turn on.
Fan is too noisy.	High fan speed setting; Obstruction in fan; Loose mounting.	Reduce fan speed using the Speed button; Check for debris and clean; Ensure fan is securely mounted.
Temperature control not working.	Incorrect mode selected; Sensor malfunction.	Ensure Cooling Trigger or Heating Trigger mode is active; Contact customer support if issue persists.
Airflow is weak.	Low fan speed setting; Obstruction in airflow path.	Increase fan speed; Check for blockages in the grille or diffuser.

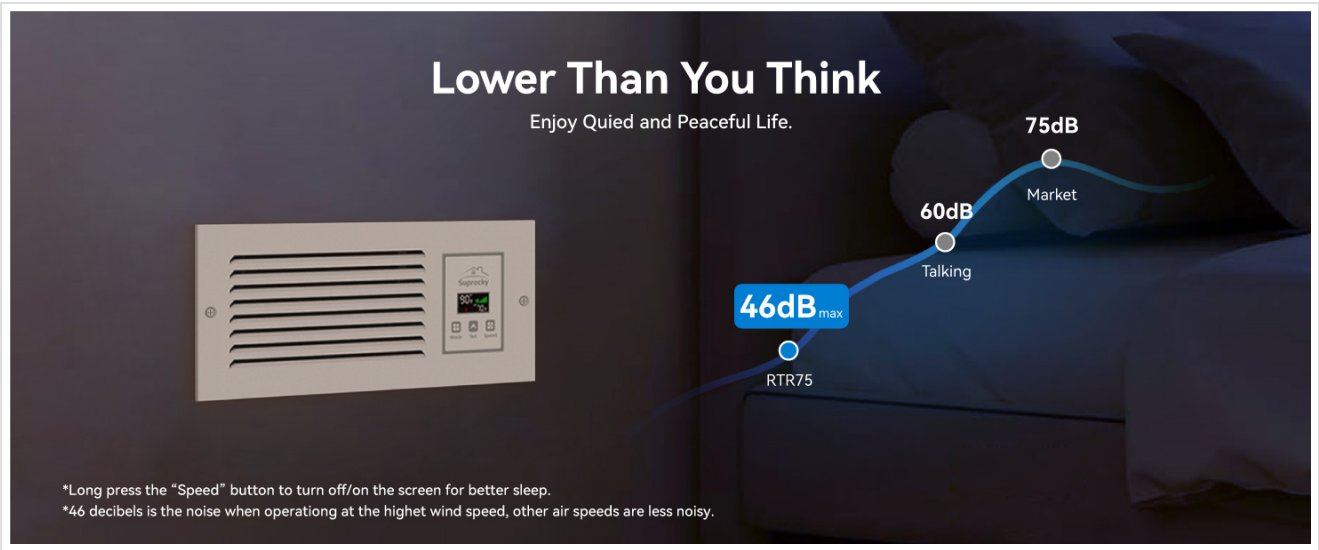


Figure 7.1: The RTR75 fan's noise level at 46dB max, designed for a quiet and peaceful environment.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Model Name	RTR75
Brand	SUPROCKY
Color	White
Electric Fan Design	Exhaust Fan
Power Source	AC
Style	Modern
Product Dimensions	16.5"D x 7.4"W x 3.78"H
Room Type	Living Room, Bedroom
Special Feature	Adjustable Thickness
Recommended Uses	Cooling, Heating and Air Circulation
Noise Level	46 dB
Wattage	18 watts
Finish Type	Painted
Air Flow Capacity	90 Cubic Feet Per Minute (CFM)
Speed	5 RPM (5 adjustable speeds)
Voltage	115 Volts (AC)
Item Weight	7.9 Pounds
Indoor/Outdoor Usage	Indoor
Control Method	Touch
Blade Material	Plastic
Efficiency	High
Is Cordless?	No
Number of Power Levels	5
Manufacturer	Suprocky
Manufacture Year	2023

Specifications

MODEL: RTR75

DESIGN:
Smart Programming

POWER USAGE: 18 Watts

WATERPROOF RATING: IP44

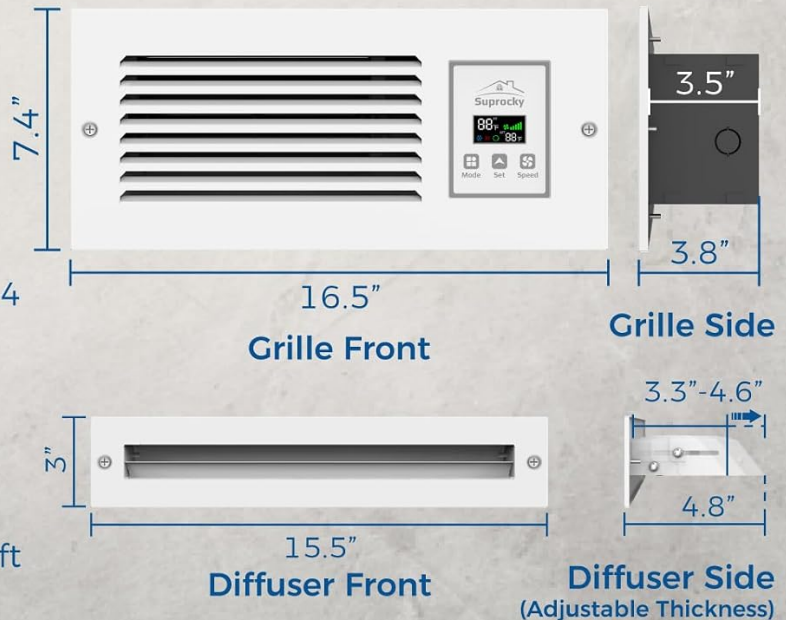
ENERGY: DC-Motor PWM

AIRFLOW: 90CFM

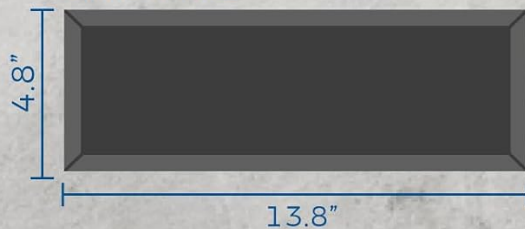
NOISE: 42dBA

SENSOR: Temperature

APPLICABLE AREA: 200 sq.ft



Grille Hole



Diffuser Hole



Installation Steps

1. Cut a **13.5"x1.3"** hole for installing the diffuser, and cut a **13.8"x4.8"** hole on the other side of the wall for installing the fan.
2. Connect the power cord according to the instructions.
3. Install the room to room fan.
4. Screw on the screws to fix it.

Note: This product needs wiring, please pay attention.

1. Wall studs must be spaced a minimum of 16" o.c.
2. It's better to choose a stud wall section that contains a power outlet for wiring.

Figure 8.1: Visual summary of RTR75 specifications and dimensions.



Figure 8.2: Key specifications for the RTR75 90CFM model, including temperature range and speed settings.

9. WARRANTY & CUSTOMER SUPPORT

SUPROCKY is confident in the quality and construction of each product. Every SUPROCKY room to room fan comes with a professional customer support team ready to assist at any time. If you have any questions, please feel free to contact us.

For further assistance or to explore other products, please visit the official SUPROCKY store:

[Visit the SUPROCKY Store](#)

© 2023 SUPROCKY. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question