

SUPROCKY RTR140

SUPROCKY RTR140 Room to Room Air Transfer Fan

User Manual

INTRODUCTION

The SUPROCKY RTR140 Room to Room Air Transfer Fan is designed to efficiently balance temperature distribution between different rooms. This through-wall fan facilitates seamless air movement, acting as a high-efficiency solution for transferring conditioned air (heated or cooled) from one space to another. It is ideal for enhancing ventilation in closed rooms and maintaining consistent comfort throughout your home.

The RTR140 model is engineered for optimal heat transfer within wall cavities, and its unique design, allowing for high and low grille/diffuser placement, helps prevent the transfer of light and sound, contributing to privacy and noise reduction between adjacent rooms.

KEY FEATURES

- **Light-blocking and Soundproof Design:** Engineered to balance room temperature while minimizing light and sound transfer between adjacent rooms, enhancing privacy.
- **Smart Programming:** Offers three control modes: Cooling Trigger, Heating Trigger, and Continuous Operation. The user interface allows for adjustment of mode, temperature, and five wind speeds for efficient and customizable ventilation.
- **Quiet and Efficient Operation:** Provides an airflow capacity of 200 cubic feet per minute (CFM), suitable for rooms up to 290 sq. ft., with a maximum noise level of 49 decibels.
- **Durable Construction:** Housing and core components are made of galvanized sheet metal with electrophoresis and painting processes to prevent rusting, ensuring longevity.
- **Easy Installation:** Designed with multiple wall mounting options for straightforward installation.

SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power at the circuit breaker before installing, servicing, or cleaning the unit.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not operate the fan with a damaged cord or plug.
- Do not insert fingers or foreign objects into the fan grille.
- Ensure the product is securely mounted to prevent accidental dislodgement.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

PRODUCT OVERVIEW



Figure 1: Main view of the SUPROCKY RTR140 fan unit and its upper diffuser, illustrating airflow.

The SUPROCKY RTR140 consists of a main fan unit with an integrated control panel and a separate upper diffuser. The system is designed to be installed through a wall, with the main unit on one side and the diffuser on the other, facilitating air transfer between rooms.

Specifications

MODEL: RTR140

DESIGN:
Smart Programming

POWER USAGE: 18 Watts

WATERPROOF RATING: IP44

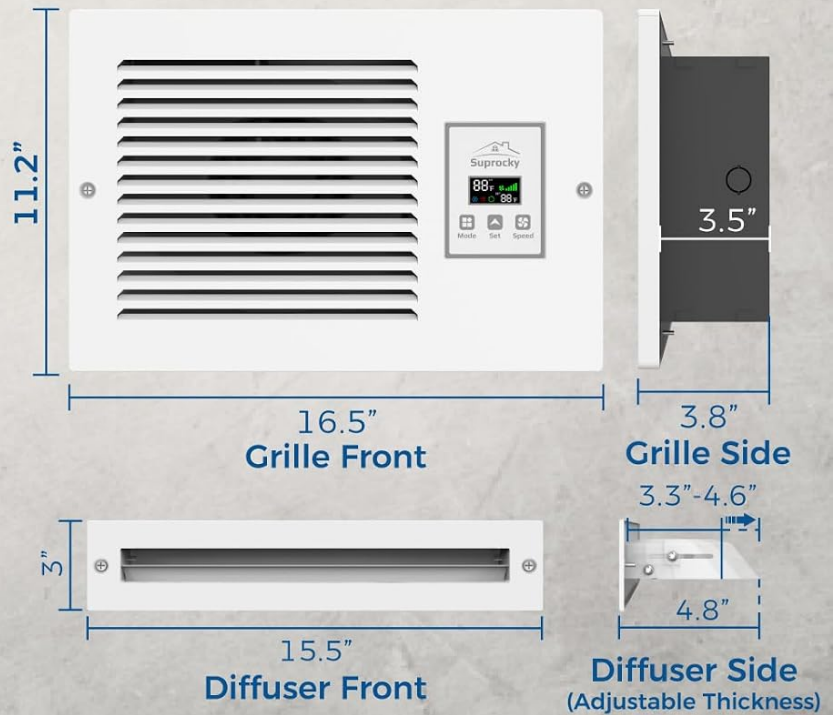
ENERGY: DC-Motor PWM

AIRFLOW: 200CFM

NOISE: 42dBA

SENSOR: Temperature

APPLICABLE AREA: 290 sq.ft



Installation Steps

1. Cut a **13.5"x1.3"** hole for installing the diffuser, and cut a **13.8"x8.6"** 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 2: Detailed dimensions of the RTR140 fan unit and diffuser, along with required hole sizes for installation.

The main unit measures approximately 11.2 inches in height and 16.5 inches in width (grille front). The diffuser measures approximately 3 inches in height and 15.5 inches in width (diffuser front). The depth of the grille side is 3.8 inches, and the diffuser side is adjustable from 3.3 to 4.6 inches.

INSTALLATION

The RTR140 fan is designed for through-wall installation. Proper wiring and wall preparation are crucial for safe and effective operation. This product requires hardwiring; please ensure you are comfortable with electrical wiring or consult a professional.

Required Tools and Materials (Not Included):

- Measuring tape
- Pencil

- Drywall saw or jigsaw
- Screwdriver
- Wire strippers
- Electrical tape
- Safety glasses and gloves

Installation Steps:

1. Prepare Wall Openings:

- Cut a **13.5" x 1.3"** hole for installing the diffuser. This hole should be on the side of the wall where the diffuser will be visible.
- Cut a **13.8" x 8.6"** hole for installing the main fan unit. This hole should be on the opposite side of the wall from the diffuser.
- **Important Note:** Wall studs must be spaced a minimum of 16" on center to accommodate the unit. It is recommended to choose a stud wall section that contains a power outlet for wiring convenience.

2. **Connect Power Cord:** Connect the power cord according to the provided wiring instructions. Ensure all electrical connections are secure and insulated. Refer to local electrical codes for proper wiring procedures.

3. **Install the Room to Room Fan:** Carefully insert the main fan unit into its designated wall opening.

4. **Secure the Unit:** Screw the unit into place using appropriate fasteners to fix it securely to the wall structure.

5. **Install the Diffuser:** Insert the diffuser into its opening and secure it.

Note: This product requires wiring. Always ensure power is disconnected at the circuit breaker before beginning installation.

OPERATING INSTRUCTIONS

The SUPROCKY RTR140 features a smart control panel for easy operation. The control panel includes Mode, Set, and Speed buttons.



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: Smart Control Panel of the RTR140 fan.

- **Power On/Off:** Press and hold the **Mode** button to turn the fan on or off.
- **Mode Selection:** Press the **Mode** button to cycle through the different operating modes:
 - **Cooling Trigger:** Fan activates when the temperature exceeds a set point, moving cooler air into the room.
 - **Heating Trigger:** Fan activates when the temperature falls below a set point, moving warmer air into the room.
 - **Continuous Operation:** Fan runs continuously at the selected speed, regardless of temperature.
- **Temperature Setting:** Press the **Set** button to adjust the desired temperature. The temperature can be set from 35°F to 99°F (approximately 1.7°C to 37.2°C). The fan will stop when the specified temperature is reached in Cooling or Heating Trigger modes.
- **Adjust Wind Speed:** Press the **Speed** button to cycle through the five available fan speeds. Press and hold the fan speed button to turn the screen off.

APPLICATION AND AIRFLOW

The RTR140 fan is versatile and can be used in various residential settings to improve air circulation and temperature balance.

APPLICATION

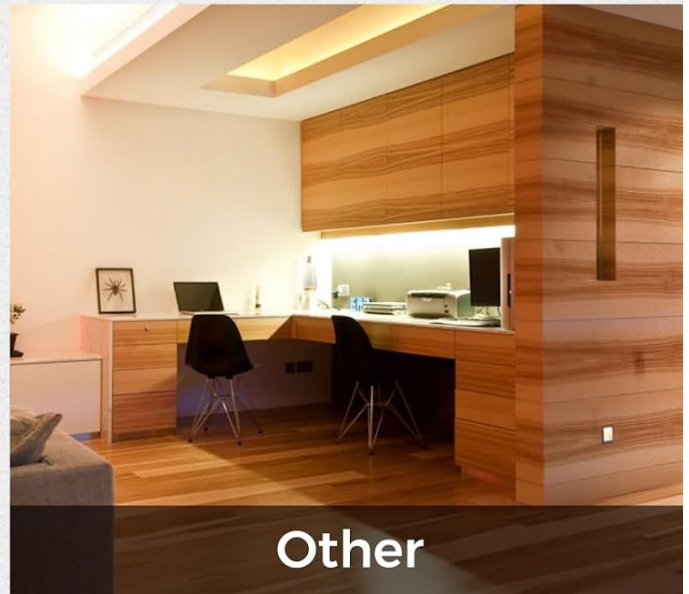


Figure 4: Examples of RTR140 fan application in various rooms.

Common applications include:

- **Living Rooms:** To distribute air from a central heating/cooling source to adjacent areas.
- **Bedrooms:** To maintain comfortable temperatures, especially in rooms that tend to be hotter or colder than the rest of the house.
- **Kitchens:** To help circulate air and reduce temperature disparities.
- **Offices/Studies:** To ensure consistent comfort in dedicated workspaces.

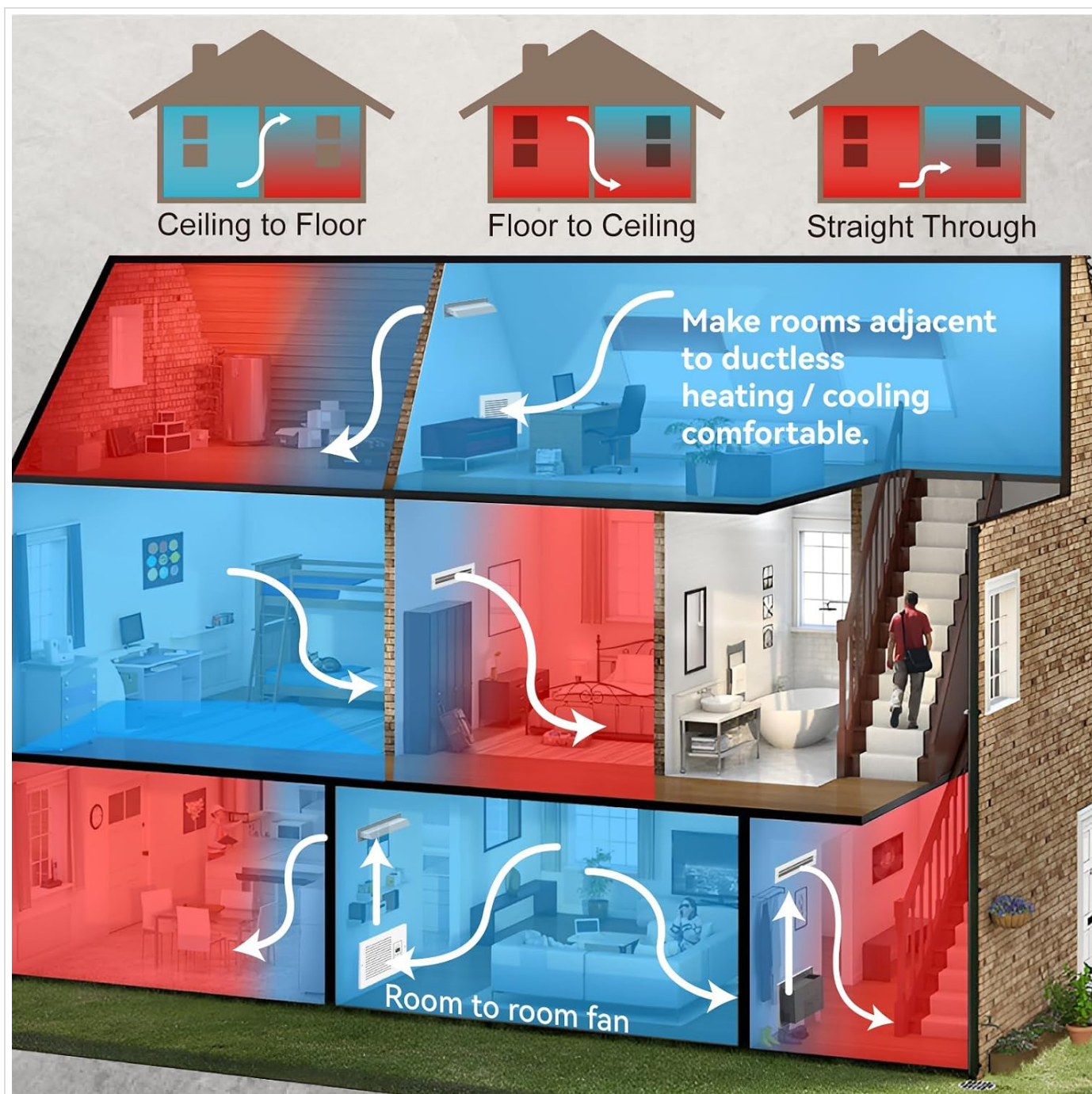


Figure 5: Airflow configurations for the RTR140 fan.

The RTR140 can be configured for various airflow patterns to optimize temperature balance:

- **Ceiling to Floor:** Air is drawn from a higher point in one room and directed towards a lower point in another.
- **Floor to Ceiling:** Air is drawn from a lower point in one room and directed towards a higher point in another.
- **Straight Through:** Air is transferred directly through the wall at a similar height between two rooms.

These configurations help make rooms adjacent to ductless heating/cooling systems more comfortable by effectively distributing air.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your SUPROCKY RTR140 fan.

- **Cleaning:**

- Before cleaning, always disconnect power to the unit at the circuit breaker.
 - Wipe the exterior surfaces of the fan unit and diffuser with a soft, damp cloth. Do not use abrasive cleaners or solvents.
 - Periodically vacuum or brush away any dust accumulation from the grilles to maintain airflow efficiency.
- **Inspection:**
 - Periodically check for any loose screws or connections.
 - Ensure there are no obstructions to the airflow on either side of the fan.

TROUBLESHOOTING

If you encounter issues with your SUPROCKY RTR140 fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; circuit breaker tripped; unit not properly wired; power button not pressed correctly.	Check circuit breaker. Ensure unit is correctly wired and power is supplied. Press and hold the Mode button to power on.
Fan is noisy.	High fan speed setting; obstructions in airflow; loose components.	Reduce fan speed. Check for and remove any obstructions. Ensure unit is securely mounted and all screws are tightened. Note that some operational noise is normal, especially at higher speeds.
Airflow is weak.	Low fan speed setting; blocked grilles; insufficient room size for fan capacity.	Increase fan speed. Clean grilles of dust and debris. Ensure the fan is appropriate for the room size (up to 290 sq. ft.).
Temperature control not working.	Incorrect mode selected; temperature sensor obstructed or faulty.	Ensure Cooling Trigger or Heating Trigger mode is selected. Check if the temperature sensor (located at the intake) is clear of obstructions. If issues persist, contact customer support.

If the problem persists after attempting these solutions, please contact SUPROCKY customer support for further assistance.

SPECIFICATIONS

Attribute	Detail
Brand	SUPROCKY
Model Number	RTR140
Colour	White
Product Dimensions (L x W x H)	10.49 x 28.4 x 41.91 cm (approx. 4.13 x 11.18 x 16.5 inches)
Item Weight	4 kg (approx. 8.8 lbs)
Power/Wattage	48 watts

Attribute	Detail
Voltage	115 Volts (AC)
Material	Metal (Galvanized sheet metal)
Number of Speeds	5
Noise Level	49 dB (maximum)
Airflow Capacity	200 CFM (Cubic Feet per Minute)
Applicable Area	Up to 290 sq. ft.
Special Features	Smart Programming, Temperature Sensor
Mounting Type	Through the wall

WARRANTY AND 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, require technical assistance, or need to address any concerns regarding your RTR140 fan, please feel free to contact SUPROCKY customer support. Refer to the product packaging or the official SUPROCKY website for the most current contact information.

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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