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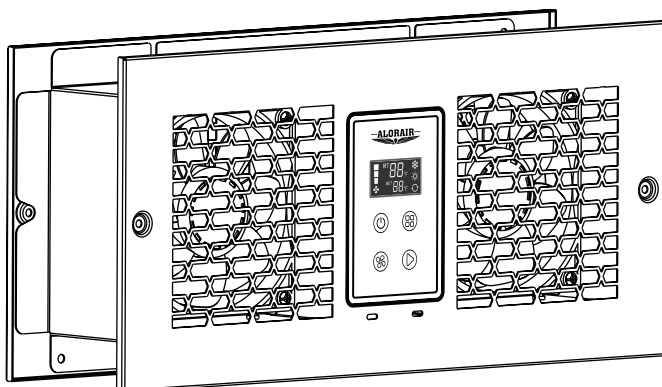
Wall Air Exchange System
RTR300 / RTR300CV
Installation and Operations Manual

AlorAir Solutions INC.

Add: 14752 Yorba Ct Chino CA 91710 US

Tel: (888)-990-7469

E-mail: support@alorair.com

Specifications subject to change without notice.

IMPORTANT:
Please read this user manual thoroughly before installation.
Keep the manual safe for future reference.

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Important Warnings

To reduce the risk of fire, electric shock, or personal injury, please adhere to the following guidelines:

- Please use this unit strictly according to the manufacturer's instructions. If you have any questions, contact the manufacturer for clarification.

- Installation and electrical wiring must be performed by qualified personnel in compliance with all applicable regulations and standards, including fire safety protocols.

- Ensure the ceiling beams support at least five times the product's weight.

- When working on walls or ceilings, avoid damaging electrical wires and other hidden utilities.

- Ensure the power is off before performing any maintenance or cleaning on the equipment to prevent accidents.

- Do not place switches within reach of bathtubs or showers to prevent electrical hazards.

- Store the unit properly when not in use to prevent potential damage.

- Do not dismantle or modify the unit in any way.

- Prevent fire or electric shock hazards by ensuring the product is properly grounded.

- The operating temperature range for this product is -13°F to 113°F.

Parts Description

Parts for the RTR300 and RTR300CV include:

- User Manual × 1
- Plastic Expansion Tube × 8
- M4×35 Screws × 8
- Remote control × 1
- AAA battery × 2

Please verify that all listed items are included. If any items are missing, contact us promptly.

Model and Parameters

The Indoor hot and cold air exchange fan facilitates air circulation between two adjacent rooms. By equalizing the temperature between these rooms, it creates a more comfortable environment for occupants during both hot summers and cold winters.
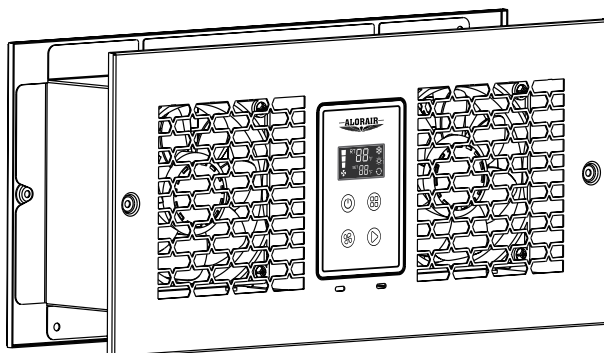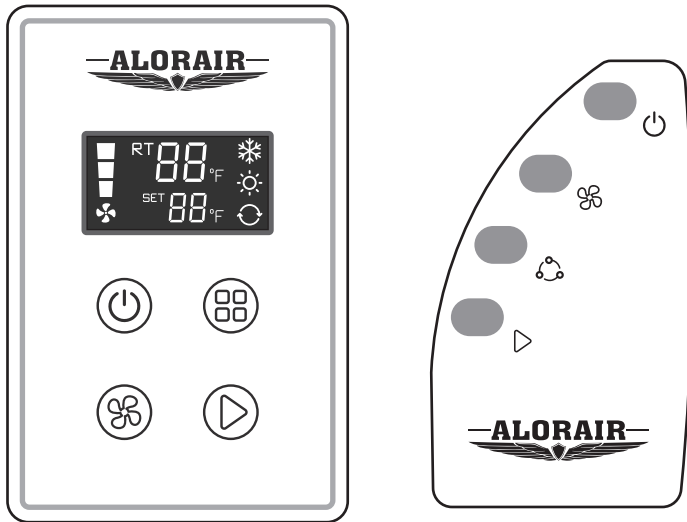

RTR300 / RTR300CV
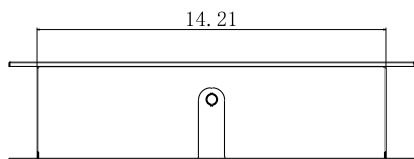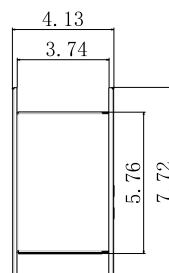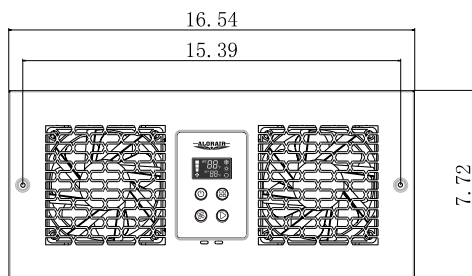
Model	RTR300	RTR300CV
Power Supply Voltage	115 V, 60 Hz	115 V, 60 Hz
Product Dimensions	16.54″ × 4.13″ × 7.72″	16.54″ × 4.13″ × 7.72″
Vent Size	14.29″ × 5.79″	14.29″ × 5.79″
Wind Direction	one-way	two-way
Airflow Volume	300 CFM	300 CFM
Power	10 W	10 W

Buttons, Interface, and Functions Guide

1. Power Button ⏻ (Button ⏻ on the remote control)

Each press toggles the power on and off.

2. Speed Button ❀ (Button ❀ on the remote control)

Adjust the fan speed through three levels: low, medium, and high.

3. Mode Button ⊞ (Button ⟳ on the remote control)

Switch between different operating modes: ventilation, heating, and cooling.

4. Setting Button ▷ (Button ▷ on the remote control)

In heating and cooling modes: Set the temperature within the range of 35-99°F.
This button is not effective in ventilation mode.

5. Speed Icon

Displays the current speed setting:

: Low speed   : Medium speed   : High speed

6. Temperature Detection Icon RT 88 °F

Displays the real-time detected temperature.

7. Set Temperature Icon SET 88 °F

SET 88 °F In heating and cooling modes: Displays the set temperature.

This icon is not displayed in ventilation mode

8. Mode Icon

Indicates the current mode:

❄ : Cooling mode   ☀ : Heating mode   ↻ : Ventilation mode

9. Power-off Memory Function

When the unit suddenly loses power, it memorizes the last operating state (fan speed, set temperature, operating mode) before a power outage.

Operating Instructions

When powered on, the buzzer will sound once, the display screen will fully illuminate, and after a short period, the RT 88 °F icon will light up. Other icons will remain off, displaying the current detected temperature.

Upon initial startup, the default fan speed is on medium speed, and the default mode is ventilation mode. After 15 seconds of inactivity, the screen will enter sleep mode with RT 88 °F icons remaining illuminated. Press any key to wake up the screen.

1. Wind Speed Adjustment

Press the wind speed button ✿ to adjust the speed. The default speed is medium speed. Each press switches the speed, cycling through low, medium, and high.

2. Mode Switch

Press the mode button ⊞ to adjust the operating mode. The default mode is ventilation. Each press switches the mode, cycling through ventilation, heating, and cooling.

3. Ventilation Mode

• Press the mode button ⊞ to switch to ventilation mode, and the fan remains working to continue ventilation.

4. Heating Mode

• Press the mode button ⊞ to switch to heating mode.

• Then press the setting button ▷ to set the temperature within 35-99°F. Each press increases the temperature by one degree. Press and hold the setting button ▷ to quickly adjust the temperature.

Recommended for use in winter. The device will supply heated air to rooms that require heating only if the detected temperature^{RT} 88$_{°F}$ is higher than the set temperature^{SET} 88$_{°F}$.

Note:

• For continuous warm air supply, make sure that the temperature of the room on the side of the air inlet panel is higher than the set temperature of the unit.

• When setting the temperature, please make sure the temperature of the room is stable first, so that you can avoid the temperature error detected by the device is too large.

• If you find that the detected temperature is greater than the set temperature and the fan does not run, do not worry about a fan failure, but rather our equipment to continuously detect the temperature for a period of time, the temperature still meets the requirements before the fan will run;

5. Cooling Mode

• Press the mode button ⊞ to switch to cooling mode.

• Then press the setting button ▷ to set the temperature within 35-99°F. Each press increases the temperature by one degree. Press and hold the setting button ▷ to quickly adjust the temperature.

Recommended for use in summer. The device will supply cold air to rooms that require cooling only if the detected temperature^{RT} 88$_{°F}$ is lower than the set temperature^{SET} 88$_{°F}$.

Note:

• In order to supply cold air continuously, please ensure that the room temperature on the side of the air inlet panel is less than the set temperature of the device.

• When setting the temperature, please ensure the room temperature is stable first, so that we can avoid the temperature error detected by the device is too large.

• If we find that the detected temperature is less than our set temperature, the fan does not run, this we do not worry about fan failure, but our equipment to continuously detect the temperature for a period of time, the temperature still meets the requirements, the fan will run.

Installation Requirements

Reminder:

● To prevent dangers, it is necessary to inspect the wiring inside the wall before installation and perform operations with power off; if necessary, please switch to another wall.

● Confirm whether the wall dimensions meet the installation size requirements.

● If you are sensitive to sound, please install this product as far as possible away from beds or other rest areas.

● Please install this product at a height of 4 inches above the ground for better ventilation or heat/cold exchange.

● Keep it away from air conditioning vents, etc.

● For more precise room temperature control, please install the temperature sensor panel on this side in a room where heat or cold is generated.
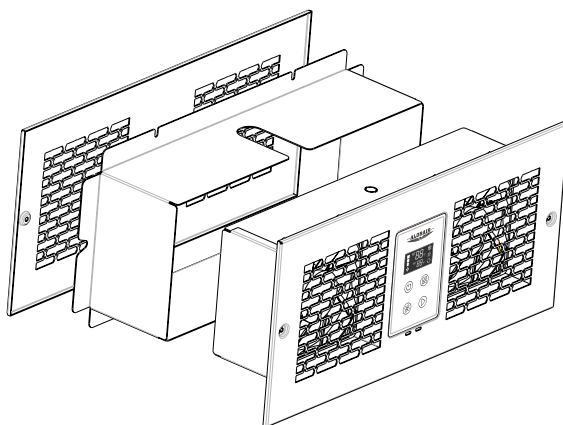
Tools Required for Installation:

• Screwdriver

• Level

• Hole-making tool

• Wire stripper

• Rubber mallet

Installation Steps:

Step 1 :

1. Confirm the installation position.

2. Confirm that there are no obstacles in the wall to be installed, such as pipes, wall supports, and wiring, and that the installation location is more than 4 inches above the ground.

3. Use leveling tools to ensure that the equipment is positioned accurately in both horizontal and vertical directions. Mark an accurate positioning point.

4. Please do not discard the template we provided after use, and draw the position where the opening is needed according to the outline.
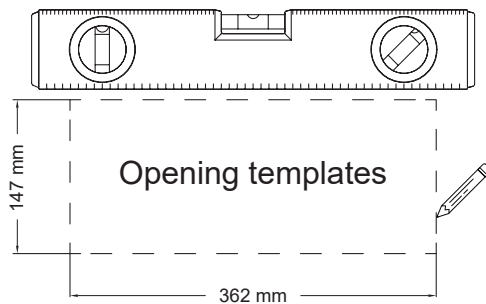

Figure 1

Step 2 :

Using a plasterboard saw, carefully cut along the line drawn in Step 1. For a smoother cut, it's recommended to use a level to ensure accuracy. Remember to prioritize safety throughout the cutting process. Once the hole is cut, remove the outer baffle and compare it.
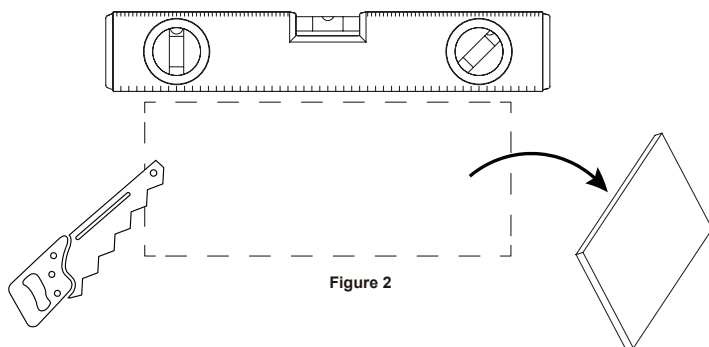
Figure 2

Step 3 :

Using a screwdriver or sharp object, puncture the opposite gypsum board at the two corners of the cut. It's recommended to carefully compare the cuts in Figure 2 to maintain uniformity during this step. Next, retrieve the opening template used in Step 1 and trace lines for cutting. Before cutting each edge, remove the outer baffle for comparison. Repeat Step 1 and Step 2 as necessary.

If you are using the power cord we provided, please dig out the necessary space for the power cord at the location where power connection is required, and then proceed directly to step 6.

Step 4 :

Use a screwdriver to open the back cover of the product. Depending on the installation position, select and remove the removable circular disc from either the top or the bottom, and then install the protective coil provided in the accessory bag.
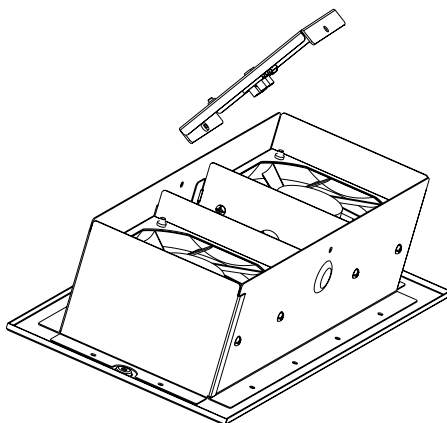

Figure 3

Step 5 :

Before proceeding with this step, ensure that the circuit to be installed is de-energized !

According to the circuit diagram, disconnect the wires provided by us and connect the live wire, neutral wire, and ground wire of the house's power supply to the product's wiring plug in the specified order. Be careful not to omit any wires, as this may cause electric leakage. Secure the power supply wires using a wire clamping plate.

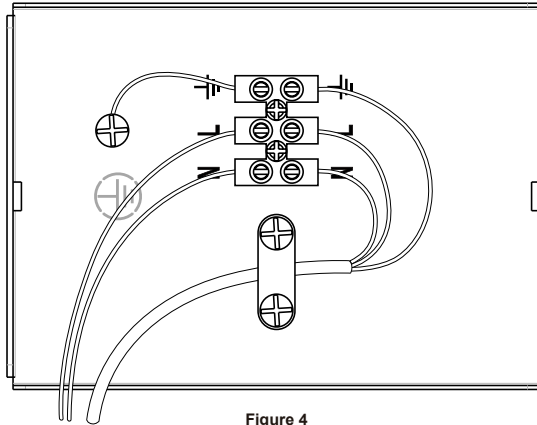After securing the power cord, install the back cover properly.

Figure 4

Step 6 :

Installation of extension ducts.

Begin by removing the outer baffle from its packaging and installing it. First, align the drywall rivets with the corresponding holes in the gypsum board, and then drive them in place. Next, install the outer baffle into its corresponding main part accordingly. Finally, secure the outer baffle by driving the self-tapping screws into the holes provided on it.
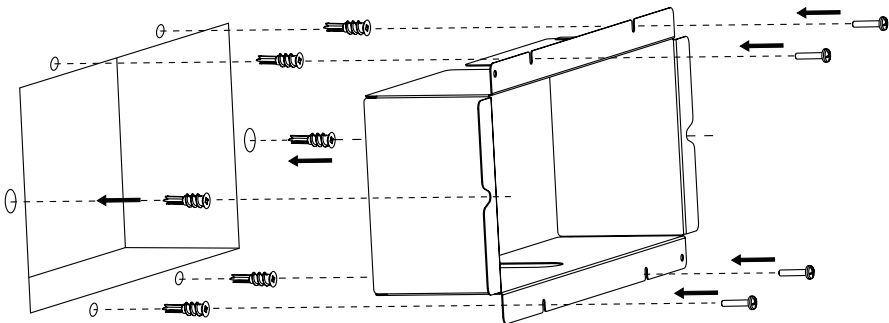

Figure 5

Step 7 :

After installing the outer baffle, proceed to mount the fan section of the product into the outer baffle, ensuring it is level. First, install the gypsum board rivets into the designated holes, then insert the fan components. Finally, secure it in place with screws.
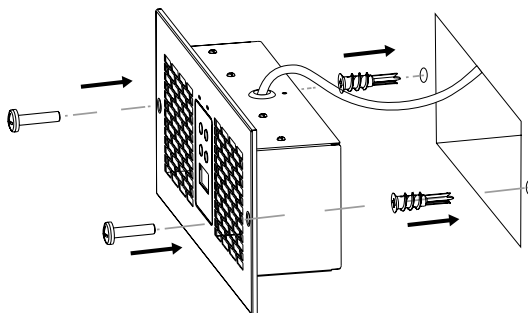
Figure 6

Step 8 :

The final step is to install the air guide panel. Align the air guide panel with the corresponding holes, then secure it in place using screws . Once this is done, the installation is complete.

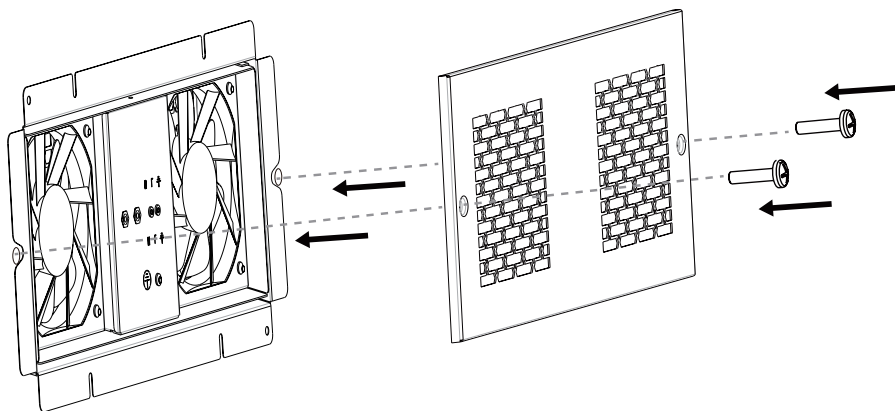Figure 7

Limited Warranty

The limited warranty is effective from the date of purchase. ALORAIR guarantees to the original purchaser that this product is free from defects in materials or workmanship for 1 years. ALORAIR will decide to repair or replace any faulty parts free of charge (excluding shipping costs).

**Customer Responsibilities to Qualify for Warranty Service:**

1. Customers must provide regular maintenance and upkeep.

2. The owner is fully responsible for the disassembly and reinstallation of the equipment.

3. If the customer cannot return the equipment to an authorized repair center, all shipping expenses are covered by the customer. Additionally, all associated costs related to shipping, including but not limited to palletizing, packaging, labeling, and pickup, are also the customer's responsibility.

4. If shipping is required, the customer assumes all risks of loss or damage.

Limited Warranty Exclusions

The limited warranty covers material or craftsmanship defects encountered during normal household, commercial, or non-commercial use of this product. However, it does not cover the following:

• Damage resulting from unintended use of this product.

• Damage caused by unauthorized modification or alteration of the product.

• Cosmetic damage including scratches, dents, chips, and other surface damage to the product.

• Damage caused by abuse, misuse, pests, accidents, fires, floods, or other natural events.

• Damage caused by incorrect line currents, voltages, fluctuations, and surges.

• Damage caused by failure to maintain and upkeep the product.

• Using this product in rooms with outdoor swimming pools or spas will void the limited warranty.

Circuit Diagram
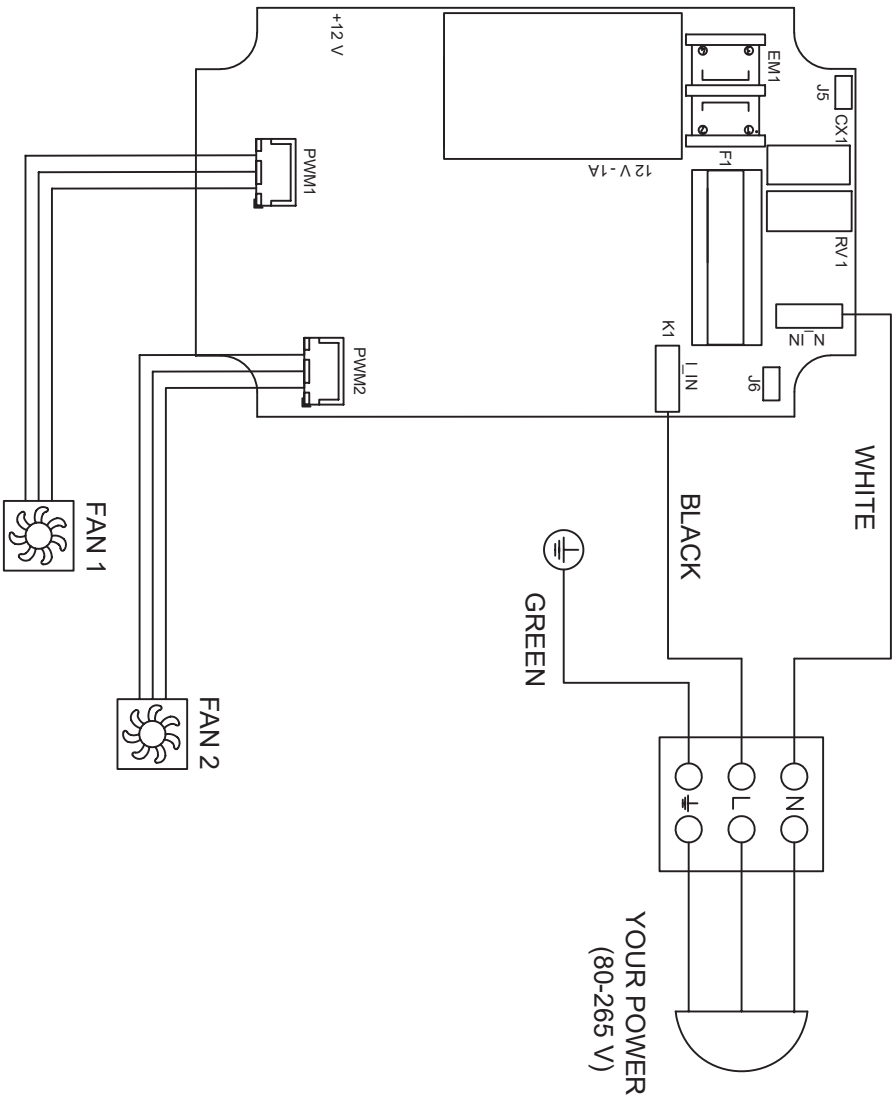
WARRANTY REGISTRATION CARD

ALORAIR

Return To:
AlorAir Solutions, Inc.

ORDER NUMBER: _____

MODEL: _____ **SERIAL #:** _____

INSTALLER: _____ **INSTALLATION DATE:** _____

NAME: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE #: _____ **EMAIL:** _____

▲ If you have any questions, please feel free to contact us at (888) 990-7469 or visit www.alorair.com

▲ Register your unit for warranty using this link: www.alorair.com/page/Warranty--Warranty-registration

▲ Warranty Registration https://www.alorair.com or scan this QR code to direct you to the warranty registration website.

AlorAir Solutions INC.

Add: 14752 Yorba Ct Chino CA 91710 US

Tel: (888)-990-7469

E-mail: support@alorair.com

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