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## SALCAR RV21

# SALCAR Smart WiFi Radiator Thermostat RV21 User Manual

Model: RV21 | Brand: SALCAR

## 1. INTRODUCTION

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The SALCAR Smart WiFi Radiator Thermostat (Model RV21) is designed to provide intelligent control over your home heating system. This device allows you to manage room temperature efficiently, offering comfort and potential energy savings. It integrates seamlessly with your 2.4G WiFi network and can be controlled via a smartphone application or voice commands through Amazon Alexa and Google Assistant. This manual provides comprehensive instructions for installation, setup, operation, and maintenance of your thermostat.

## 2. SAFETY INFORMATION

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- Read all instructions carefully before installation and use.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.
- Keep the device away from water, moisture, and extreme temperatures.
- Use only the specified battery type (3 x 1.5V AA alkaline batteries). Ensure correct polarity during installation.
- Dispose of used batteries according to local regulations.
- Ensure the device is securely mounted to prevent accidental detachment.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x SALCAR Smart Radiator Thermostat (Model RV21)
- 5 x User Manuals (various languages)
- 1 x Adapter Set (RA, RAV, RAVL, Canleffi, Giacomini & M28)
- 3 x 1.5V AA Alkaline Batteries
- 3 x Adapter Screws

# Package



Image 3.1: Contents of the SALCAR Smart Radiator Thermostat package, including the thermostat, user manuals, adapter set, and batteries.

## 4. PRODUCT OVERVIEW

The SALCAR Smart WiFi Radiator Thermostat features a clear LED display and intuitive controls. It offers various smart functions to enhance your heating experience.



Image 4.1: Overview of the SALCAR Smart Radiator Thermostat highlighting key features such as WiFi connectivity, low battery indicator, open window detection, child lock, room temperature graph, frost protection, app remote control, and voice control.

## Key Features:

- **WiFi Connectivity:** Connects directly to your 2.4G WiFi network without a separate gateway.
- **Low Battery Tip:** Indicates when batteries need replacement.
- **Open Window Detection:** Automatically reduces heating when an open window is detected to save energy.
- **Child Lock:** Prevents unauthorized changes to settings.
- **Room Temperature Graph:** View temperature history via the app.
- **Frost Protection:** Maintains a minimum temperature to prevent pipes from freezing.
- **APP Remote Control:** Full control via the Tuya Smart Life app.
- **Voice Control:** Compatible with Amazon Alexa and Google Assistant.

## 5. SETUP

## 5.1 Battery Installation

1. Gently twist and pull the top cover of the thermostat to open the battery compartment.
2. Insert three 1.5V AA alkaline batteries, ensuring correct polarity (+/-).
3. Close the battery compartment by aligning the cover and twisting it back into place.



Image 5.1: Internal view of the SALCAR Smart Radiator Thermostat showing the battery compartment for three 1.5V AA alkaline batteries.

## 5.2 Mounting on Radiator

The thermostat is designed to replace existing thermostatic radiator valves (TRVs). Use the appropriate adapter from the provided set if your radiator valve is not M30 x 1.5mm.

1. Remove your existing thermostatic head from the radiator valve.
2. If necessary, select the correct adapter (RA, RAV, RAVL, Canleffi, Giacomini, or M28) that fits your radiator valve.
3. Attach the chosen adapter to the radiator valve.

4. Screw the SALCAR Smart Radiator Thermostat onto the adapter or directly onto the M30 x 1.5mm valve until it is secure. Do not overtighten.

### 5.3 App Installation (Tuya Smart Life)

1. Download the **Tuya Smart Life** app from the App Store (iOS) or Google Play Store (Android).
2. Register for a new account or log in with an existing one.

### 5.4 Device Pairing (WiFi Connection)

Ensure your smartphone is connected to a 2.4GHz WiFi network. The thermostat does not require a separate gateway.

1. On the thermostat, press and hold the pairing button (usually indicated by a WiFi icon or similar) until the WiFi indicator on the display starts flashing rapidly. This indicates pairing mode.
2. Open the Tuya Smart Life app, tap the "+" icon to add a device.
3. Select "Small Home Appliance" > "Thermostat" or search for "Radiator Thermostat".
4. Follow the on-screen instructions in the app to connect the thermostat to your WiFi network. You will need to enter your WiFi password.
5. Once connected, the WiFi indicator on the thermostat will stop flashing and remain solid.

# WiFi Cloud Services



Image 5.2: Diagram illustrating the WiFi Cloud Services connection for the SALCAR Smart Radiator Thermostat, showing how the smartphone, smart speaker, cloud server, WiFi router, and TRV interact.

## 6. OPERATING INSTRUCTIONS

### 6.1 Manual Control

You can adjust the temperature directly on the thermostat using the physical buttons:

- Press the + or - buttons to increase or decrease the target temperature.
- The display will show the current temperature and the set target temperature.

### 6.2 App Control (Tuya Smart Life)

The Tuya Smart Life app provides comprehensive control over your thermostat from anywhere.

# APP Remote Control



Image 6.1: Screenshot of the Tuya Smart Life app interface demonstrating remote control capabilities for the SALCAR Smart Radiator Thermostat, including temperature settings and historical data.

## Operating Modes:

- **Automatic Mode:** Follows the programmed heating schedule.
- **Manual Mode:** Maintains a constant temperature set by the user, overriding the schedule.
- **Comfort Mode:** Sets the temperature to a predefined comfortable level.
- **Energy Saving Mode:** Sets the temperature to a predefined energy-efficient level.

## 6.3 Programming Schedules

Use the Tuya Smart Life app to create custom heating schedules for each day of the week. You can set different temperatures for various time periods (e.g., morning, day, evening, night) to match your lifestyle and optimize energy consumption.

## 6.4 Voice Control (Amazon Alexa & Google Assistant)

After connecting your Tuya Smart Life account to Amazon Alexa or Google Home, you can control your thermostat using voice

commands.

1. Ensure your thermostat is successfully paired with the Tuya Smart Life app.
2. Open the Amazon Alexa app or Google Home app.
3. Navigate to "Skills & Games" (Alexa) or "Works with Google" (Google Home) and search for "Smart Life".
4. Enable the Smart Life skill/service and link your Smart Life account.
5. Discover devices. Your thermostat should now appear and be controllable via voice.

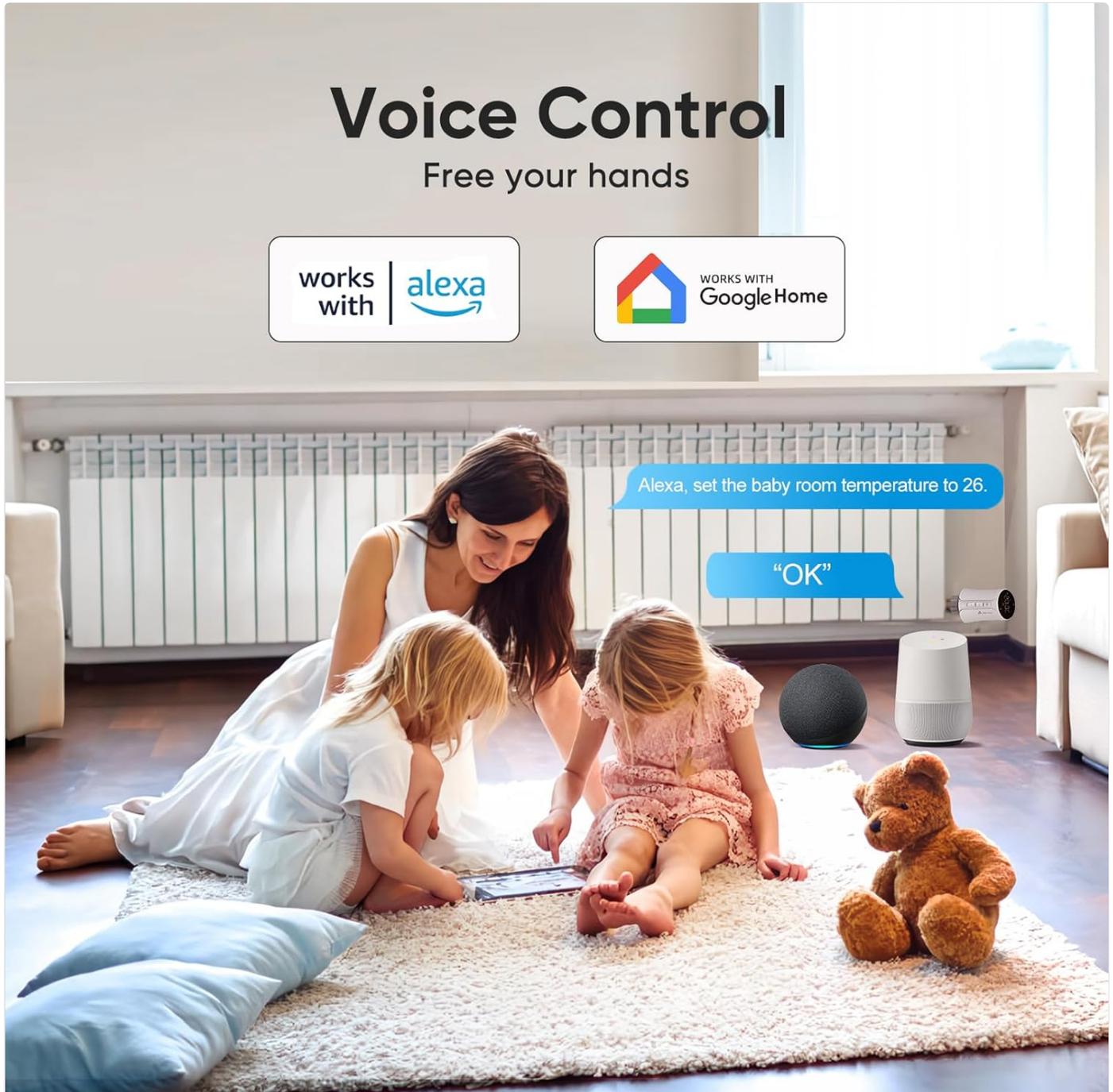


Image 6.2: Illustration of voice control functionality for the SALCAR Smart Radiator Thermostat, showing compatibility with Amazon Alexa and Google Home devices.

### Example Voice Commands:

- "Alexa, set [Thermostat Name] to 22 degrees."
- "Hey Google, what is the temperature in [Room Name]?"
- "Alexa, turn on [Thermostat Name]."

## 6.5 Child Lock

Activate the child lock feature via the Tuya Smart Life app to prevent accidental or unauthorized changes to the thermostat settings by pressing the physical buttons.

## 6.6 Open Window Detection

The thermostat can detect a sudden drop in temperature, indicating an open window. When detected, it will temporarily pause heating to save energy. Heating will resume automatically after a set period or when the temperature stabilizes.

## 6.7 Frost Protection

This feature ensures that the room temperature does not fall below a predefined minimum (e.g., 5°C) to protect pipes from freezing, especially useful during colder months or when you are away.

# 7. MAINTENANCE

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## 7.1 Battery Replacement

When the low battery indicator appears on the display or in the app, replace the batteries promptly to ensure continuous operation. Follow the steps in Section 5.1 for battery installation.

## 7.2 Cleaning

Wipe the thermostat with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the device's surface or internal components.

# 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Thermostat not turning on	Batteries are dead or incorrectly installed.	Replace batteries with new 1.5V AA alkaline batteries, ensuring correct polarity.
Cannot connect to WiFi	Incorrect WiFi password; thermostat too far from router; router is 5GHz only; thermostat not in pairing mode.	Verify WiFi password; move thermostat closer to router; ensure router supports 2.4GHz; put thermostat into pairing mode (flashing WiFi icon).
No heating despite high setting	Radiator valve stuck; thermostat not properly mounted; open window detection active.	Check radiator valve for proper function; re-mount thermostat securely; close windows/doors; check app for active open window detection.
Voice control not working	Smart Life account not linked to Alexa/Google; incorrect device name; internet connection issue.	Ensure Smart Life skill/service is enabled and linked; verify device name in Alexa/Google app; check internet connection.

# 9. SPECIFICATIONS

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Feature	Specification
Model Number	RV21

Feature	Specification
Brand	SALCAR
Connectivity Technology	Wi-Fi (2.4GHz)
Power Source	3 x 1.5V AA Alkaline Batteries
Controller Type	Tuya Smart Life App, Amazon Alexa, Google Assistant
Temperature Control Type	Programmable, Smart/Remote
Material	Plastic
Color	White
Product Dimensions (L x W x H)	5.97 x 5.97 x 9.53 cm
Item Weight	320 grams
Valve Connection	M30 x 1.5mm (with various adapters included)

# Product Size



95.3mm

59.7mm



51.3mm

M30\*1.5mm



Image 9.1: Detailed dimensions of the SALCAR Smart Radiator Thermostat, showing its height, width, and M30 x 1.5mm valve connection.

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact SALCAR customer service. You can typically find contact details on the manufacturer's official website or through your retailer.

Manufacturer: SALCAR GmbH

Address: An der Hebemärchte 6, 04316 Leipzig, Germany

Email: [info@salcar.de](mailto:info@salcar.de)

Tel: 0341 25257850

