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AITECAC T4-10S

AITECAC 4"x10" Register Booster Fan T4-10S User Manual

Model: T4-10S | Brand: AITECAC

Product Overview

The AITECAC T4-10S is a 4"x10" register booster fan designed to enhance home airflow and improve HVAC efficiency. It features a programmable LCD controller with a built-in thermostat, automatic fan speed adjustments, and remote control for optimal comfort and convenience.



Image: The AITECAC T4-10S register booster fan, showcasing its sleek design and integrated display.

Key Features

- **Sleek Design:** Crafted from premium anodized aluminum with CNC machining details and a programmable LCD controller.
- **Built-in Thermostat:** Features a heating and cooling thermostat with automatic fan speed adjustments for optimal comfort.
- **Long-Lasting Performance:** Equipped with dual ball bearings, offering an impressive lifespan of over 50,000 hours.
- **Convenient Control:** Customize fan settings with precision using the sleek LCD control panel or the included remote control.
- **Easy Installation:** Features a scientifically engineered assembly design for simple setup.
- **Energy Efficient:** Advanced fan design enhances airflow and HVAC efficiency with minimal noise and improved energy savings.



Image: Diagram highlighting key features such as remote operation, 6-level speeds, and powerful air circulation.

Important Safety Instructions

To reduce the risk of fire, electric shock, or injury, please read and follow these instructions carefully before operating the fan.

- Read all instructions thoroughly before using the appliance.
- Do not operate any fan with a damaged cord or plug. If the cord or plug is damaged, discontinue use and contact customer support for assistance.
- Do not run the power cord under carpeting or cover it with throw rugs, runners, or similar coverings. Position the cord away from high-traffic areas to prevent tripping hazards.
- To safely disconnect the fan, first turn all controls to the OFF position, then carefully remove the plug from the electrical outlet.
- Avoid inserting or allowing foreign objects to enter any ventilation or exhaust openings. This can lead to electric shock, fire, or damage to the fan.

- Use this fan only as described in this manual. Any other use not explicitly recommended by the manufacturer may result in fire, electric shock, or personal injury.



Image: Visual representation of the fan's multiple safety features, including overheat protection, energy efficiency optimization, and mechanical durability.

Package Contents

Please verify that all items listed below are included in your package:

- AITECAC Register Booster Fan (Model T4-10S)
- Remote Control
- Power Adapter
- User Manual

Installation Guide

The AITECAC T4-10S register booster fan is designed for easy installation into standard 4"x10" floor or wall vents. Ensure the power adapter is unplugged before beginning installation.

Your browser does not support the video tag.

Video: Demonstrates the unboxing, connection of the power adapter, and placement of the AITECAC register booster fan into a floor vent.

Step-by-Step Installation

1. **Prepare the Vent:** Ensure the existing vent opening is clean and clear of obstructions. The fan is designed to fit a 4"x10" register hole.
2. **Position the Fan:** Place the booster fan into the vent opening. For floor vents, the fan should sit flush with the floor. For wall vents, ensure it is securely mounted. Screws may be used for a more secure fit, especially in non-carpeted areas.
3. **Connect Power:** Plug the power adapter into the fan unit, then plug the adapter into a standard electrical outlet.
4. **Initial Power On:** The fan's display will illuminate, indicating it is ready for operation.



Image: A diagram illustrating how the fan fits into a standard 4x10 inch register hole.

Operating Instructions

The fan can be controlled using the integrated LCD panel or the included remote control.

Your browser does not support the video tag.

Video: A demonstration of the AITECAC register booster fan's LCD control panel and remote control functions, including power, temperature, and fan speed adjustments.

Using the Control Panel

- **Power Button:** Press and hold to turn the fan ON or OFF.
- **Temperature Display:** Shows the current ambient temperature detected by the built-in sensor.
- **Fan Speed Adjustment:** Use the '+' and '-' buttons on the panel to increase or decrease the fan speed. There are 6 available speed levels.
- **Mode Button (M):** Press to cycle through different operating modes, such as Cooling, Heating, or Auto.
- **Light Button:** Press to adjust the display brightness or to turn the display light off.

Using the Remote Control

The remote control provides convenient access to all fan functions from a distance.

- **Power Button:** Press and hold to turn the fan ON or OFF.
- **Fan Speed:** Use the '+' and '-' buttons to adjust the fan speed.
- **Mode Button (M):** Select desired operating modes.
- **Light Button:** Control the display brightness.



Image: A user operating the AITECAC register booster fan with the remote control.

Temperature and Mode Settings

- **Cooling Mode:** In this mode, the fan activates when the room temperature exceeds the set temperature, helping to distribute cool air from your HVAC system.
- **Heating Mode:** In this mode, the fan activates when the room temperature falls below the set temperature, assisting in the distribution of warm air from your HVAC system.
- **Auto Mode:** The fan automatically adjusts its speed based on the temperature difference from your set point, optimizing airflow for comfort.
- **Setting Temperature:** Use the '+' and '-' buttons on the control panel or remote to set your desired temperature for automatic operation.



Image: The fan operating in Warm Air Mode (red airflow) and Cold Air Mode (blue airflow).



Image: Close-up of the fan's display showing temperature, fan speed, and heating/cooling indicators for smart temperature control.

Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your AITECAC register booster fan.

- **Cleaning the Surface:** Regularly wipe the fan's exterior surface with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish.
- **Dust Removal:** Periodically use a vacuum cleaner with a brush attachment to gently remove any accumulated dust from the fan blades and grille. Always ensure the fan is unplugged from the power outlet before performing any cleaning.
- **Storage:** If you plan to store the fan for an extended period, unplug it, clean it thoroughly, and place it in its original packaging or a protective cover. Store it in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting Guide

Refer to this guide for common issues and their solutions. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply or loose connection.	Check if the power adapter is securely plugged into the fan and the electrical outlet. Ensure the outlet is functional by testing with another device.
Remote control is unresponsive.	Dead batteries or obstruction between remote and fan.	Replace the remote control batteries. Ensure there are no physical obstructions blocking the signal between the remote and the fan's sensor.
Low airflow from the fan.	Fan speed set too low or dust accumulation on blades/grille.	Increase the fan speed using the control panel or remote. Unplug the fan and carefully clean the fan blades and grille to remove any dust or debris.
Fan runs continuously or not at all in Auto mode.	Incorrect temperature setting or obstructed temperature sensor.	Verify that the set temperature is appropriate for the desired heating or cooling action. Ensure the fan's temperature sensor is not covered or obstructed.

Product Specifications

SPECIFICATIONS AND MODELS

MODEL: AIRVENT T4-10S
REGISTER SIZE: 4"x10"
MOTOR: DC-Motor
RATED POWER: 6W
FAN SPEED: 3500±10% RPM
AIRFLOW: ≧85CFM
POWER SUPPLY: 120~240V 50/60Hz
NOISE: ≦50 dB

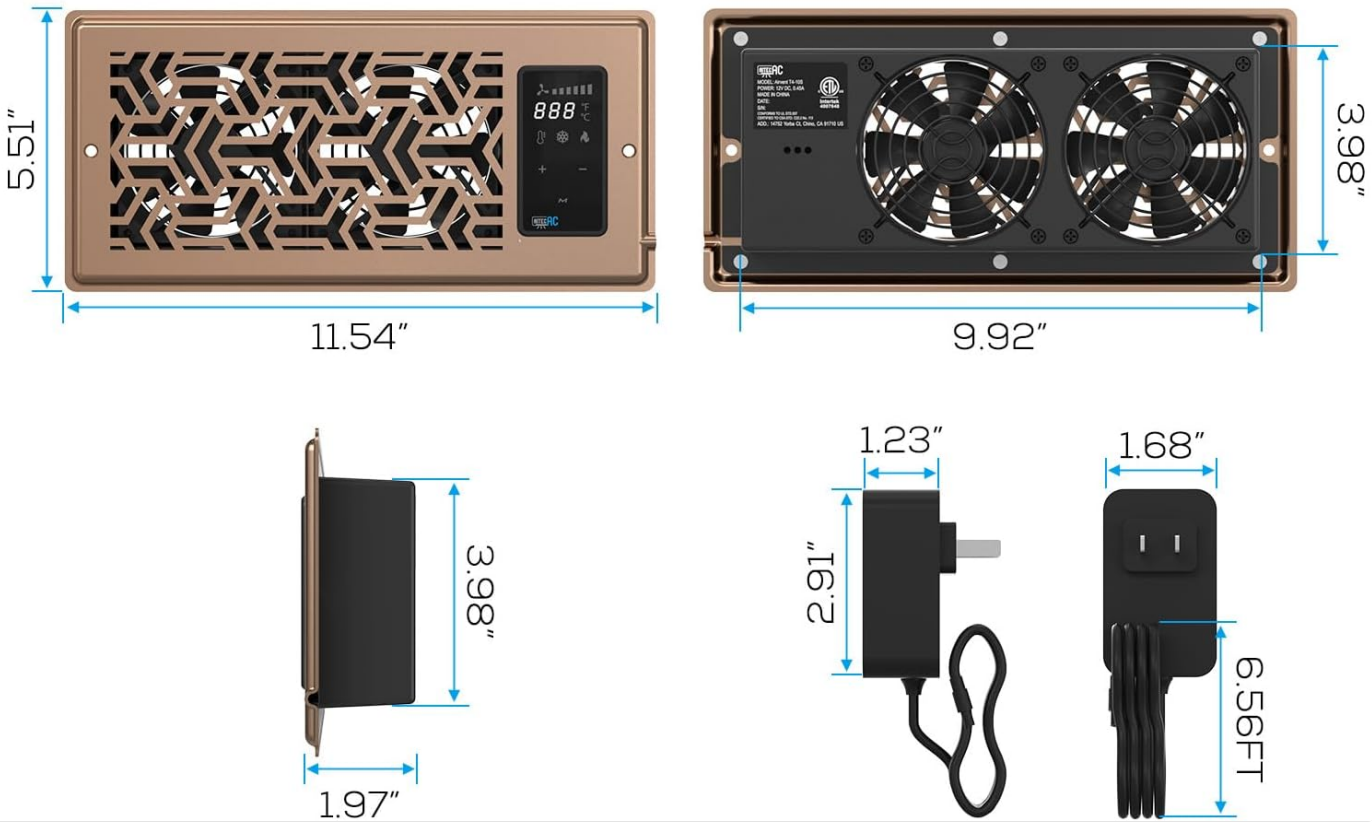


Image: Detailed diagram showing the dimensions and technical specifications of the AITECAC T4-10S model.

Feature	Detail
Brand	AITECAC
Model Name	Airvent T4-10S
Model Number	T4-10S
Register Size Compatibility	4"x10"
Product Dimensions (D x W x H)	11.54"D x 5.22"W x 19.7"H
Motor Type	DC-Motor
Rated Power	6W
Fan Speed	3500±10% RPM

Feature	Detail
Airflow	≥85CFM
Noise Level	≤50 dB
Power Supply	120-240V 50/60Hz
Material	Aluminum
Controller Type	Remote Control, Push Button, Touch
Number of Speeds	6
Voltage	115 Volts
Indoor/Outdoor Usage	Indoor
Special Feature	Lightweight

Warranty and Customer Support

This AITECAC product comes with a standard manufacturer's warranty. For detailed warranty information, product support, or service inquiries, please refer to the contact information provided with your purchase documentation or visit the official AITECAC website. Keep your purchase receipt as proof of purchase for warranty claims.

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