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TCL 8W9ER1-A

TCL 8W9ER1-A Smart Window Air Conditioner

User Manual

1. Product Overview

The TCL 8W9ER1-A is an 8,000 BTU Smart Window Air Conditioner designed to provide powerful and efficient cooling for rooms up to 350 sq. ft. This unit integrates smart features, allowing control via a dedicated app and voice commands through popular assistants like Alexa and Google Assistant. It offers multiple fan speeds, 8-way airflow, and energy-saving modes to enhance comfort and reduce energy consumption.



Figure 1.1: Front view of the TCL 8W9ER1-A Smart Window Air Conditioner.

2. Key Features

- **Powerful Cooling:** 8,000 BTU capacity effectively cools rooms up to 350 sq. ft.
- **Smart Control:** Compatible with TCL Home app, Amazon Alexa, and Google Assistant for convenient control.
- **Energy Efficient:** Energy Star Certified with Sleep and Eco modes to minimize energy consumption.
- **Customizable Airflow:** Features two 4-way directional vents for 8-way airflow.
- **Easy Maintenance:** Equipped with a washable and reusable filter for prolonged unit life and improved air quality.
- **User-Friendly Interface:** LED display and included remote control for simple operation.

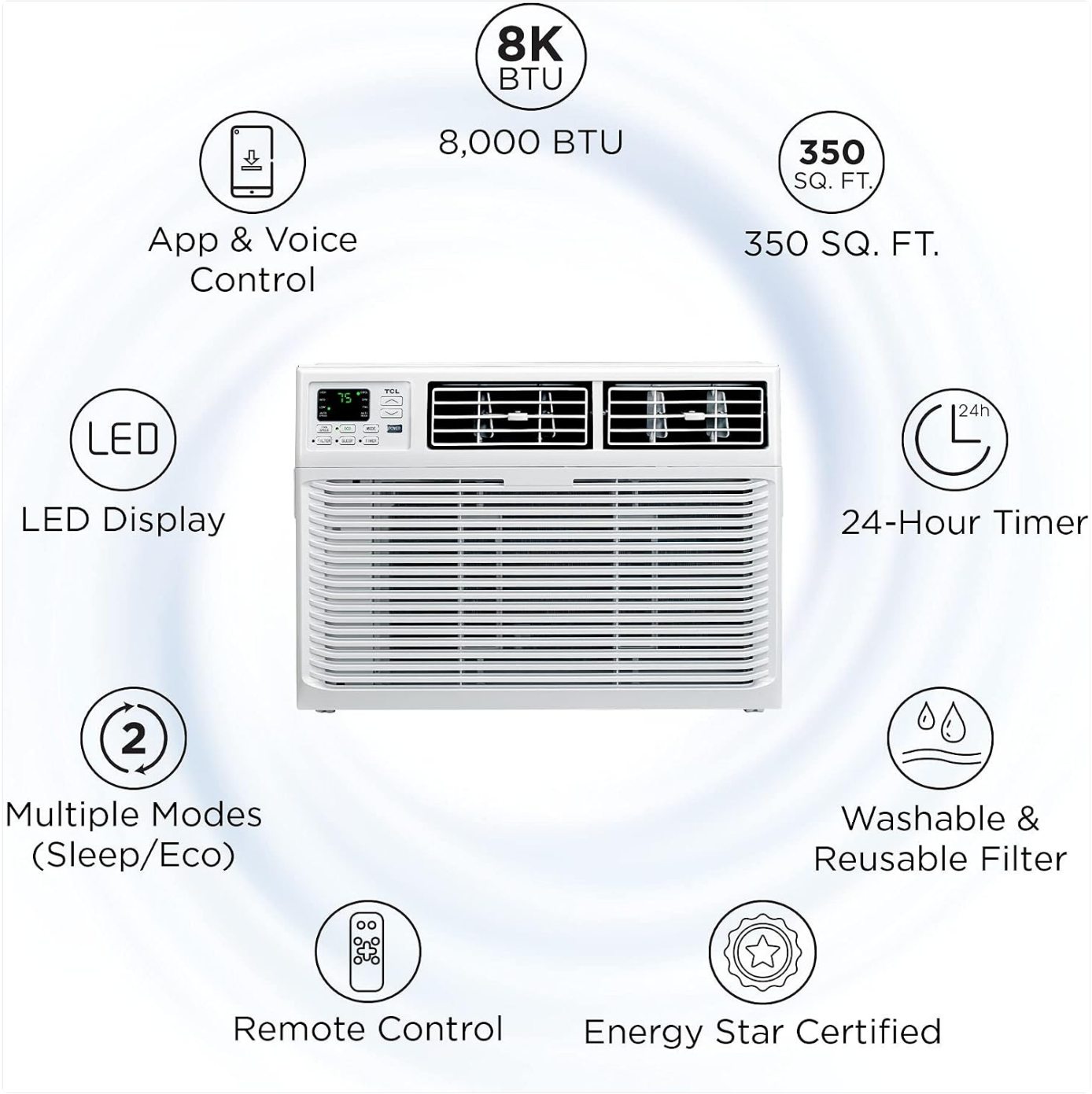


Figure 2.1: Overview of the TCL 8W9ER1-A's key features including BTU, coverage area, control options, and filter type.

3. Installation Guide

The TCL 8W9ER1-A is designed for easy window installation. Ensure your window meets the following size requirements:

- **Minimum Window Height:** 14.5 inches

- **Window Width:** 23 to 36 inches



Figure 3.1: Required window dimensions for proper installation.

The unit comes with a quick start guide and a window kit to facilitate the setup process. Follow the detailed instructions provided in the included physical manual for step-by-step installation.

3.1. Cooling Capacity Selection

Selecting the correct BTU capacity for your room is crucial for optimal performance and energy efficiency. Refer to the table below to determine the appropriate cooling capacity based on your room size.

Find the correct cooling capacity for your room

Find the corresponding cooling capacity that matches your desired area (square footage). Cooling capacity shown in British thermal units (BTU) per hour.

Area to be cooled (SQ. FT.)	Capacity Needed (BTU)
150 SQ. FT.	5,000
UP TO 250 SQ. FT.	6,000
UP TO 300 SQ. FT.	7,000
UP TO 350 SQ. FT.	8,000
UP TO 400 SQ. FT.	9,000
UP TO 450 SQ. FT.	10,000
UP TO 550 SQ. FT.	12,000
UP TO 700 SQ. FT.	14,000
UP TO 1000 SQ. FT.	18,000
UP TO 1200 SQ. FT.	21,000
UP TO 1400 SQ. FT.	23,000
UP TO 1500 SQ. FT.	24,000

Adjustment as necessary

Make any adjustments for the following circumstance:

i. If the room is heavily shaded, reduce capacity by 10 percent.
ii. If the room is very sunny, increase capacity by 10 percent.
iii. If more than two people regularly occupy the room, add 600 BTUs for each additional person.
iv. If the unit is used in a kitchen, increase capacity by 4,000 BTUs.

Figure 3.2: Cooling capacity guide for various room sizes.

Adjustments:

i. If the room is heavily shaded, reduce capacity by 10 percent.

ii. If the room is very sunny, increase capacity by 10 percent.

iii. If more than two people regularly occupy the room, add 600 BTUs for each additional person.

iv. If the unit is used in a kitchen, increase capacity by 4,000 BTUs.

4. Operating Instructions

The TCL 8W9ER1-A offers multiple ways to control your comfort.

4.1. Control Panel



Figure 4.1: The intuitive LED display and control buttons.

The unit features an LED display and easy-to-use buttons for direct control. Adjust settings such as temperature, fan speed, and operating mode directly from the unit's front panel.

4.2. Remote Control

A remote control is included for convenient operation from a distance. Ensure the remote has fresh batteries and is pointed towards the unit for effective communication.

4.3. Smart App & Voice Control

For ultimate convenience, control your air conditioner using the TCL Home app on your smartphone or through voice commands

with Amazon Alexa or Google Assistant.

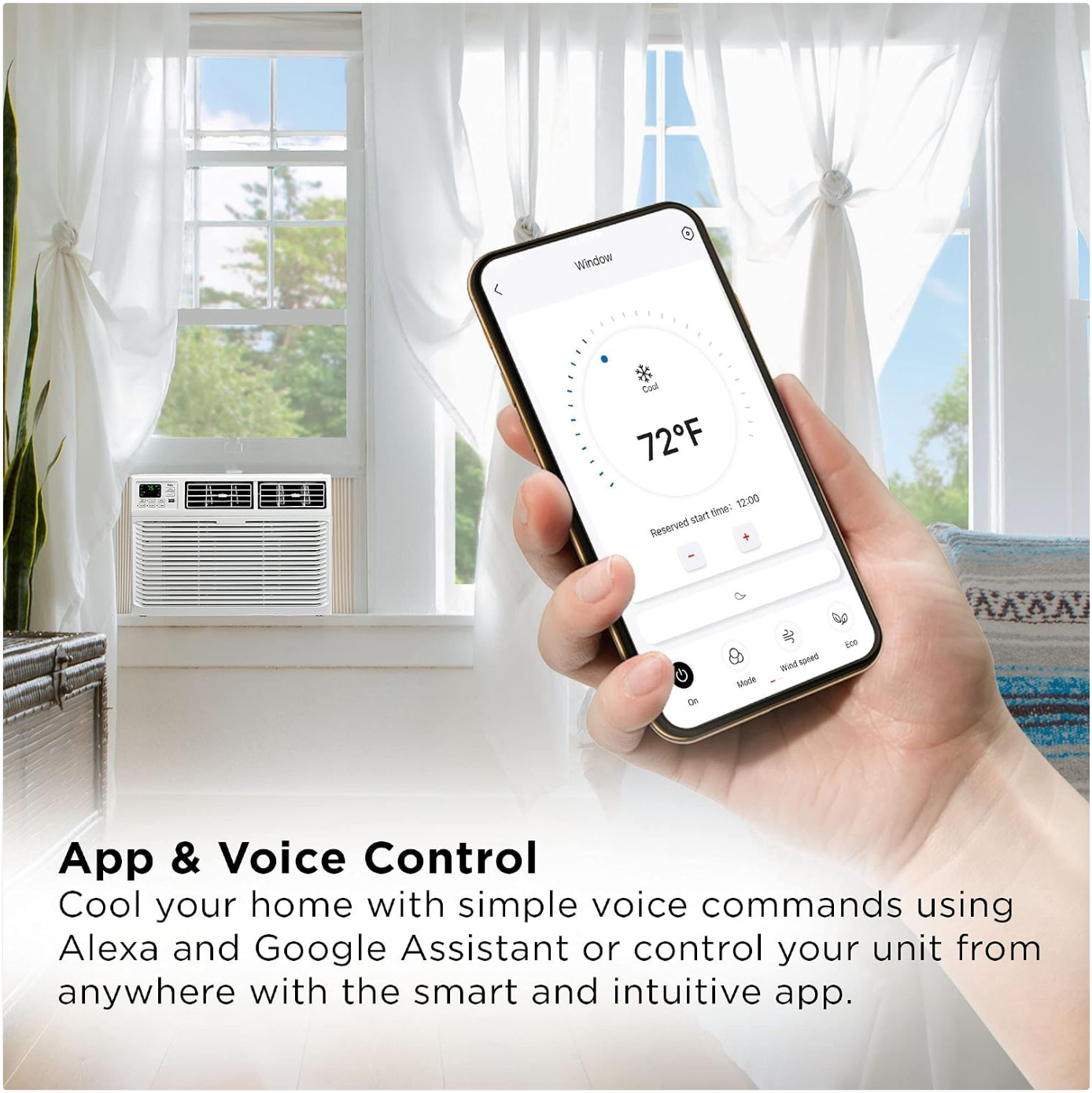


Figure 4.2: Controlling the unit via the TCL Home smartphone application.

Download the TCL Home app from your device's app store and follow the in-app instructions to connect your air conditioner to your home Wi-Fi network. Once connected, you can adjust settings, set schedules, and monitor the unit from anywhere.

5. Modes and Settings

- **Cool Mode:** Provides powerful cooling to reach your desired temperature.
- **Fan Mode:** Circulates air without cooling. Multiple fan speeds (High, Medium, Low, Auto) are available.
- **Dry Mode:** Dehumidifies the air, reducing humidity levels in the room.
- **Eco Mode:** Optimizes energy usage by cycling the compressor on and off to maintain the set temperature efficiently.
- **Sleep Mode:** Adjusts temperature and fan speed for quiet, comfortable, and energy-efficient operation during sleep.
- **Timer:** Set a specific time for the unit to turn on or off automatically.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your air conditioner.

6.1. Filter Cleaning

The TCL 8W9ER1-A features a washable and reusable filter. It is recommended to clean the filter regularly (e.g., every two weeks or as indicated by the filter notification light) to maintain air quality and cooling efficiency.

1. Turn off and unplug the air conditioner.
2. Open the front panel of the unit to access the air filter.
3. Carefully remove the filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly.
5. Allow the filter to air dry completely before reinserting it into the unit.
6. Close the front panel.

7. Troubleshooting

If you encounter issues with your TCL 8W9ER1-A air conditioner, try the following common troubleshooting steps:

- **Unit not turning on:** Ensure the unit is properly plugged into a working electrical outlet. Check the circuit breaker.
- **No cooling or insufficient cooling:** Verify that the correct mode (Cool) is selected and the temperature setting is lower than the room temperature. Check if the air filter is clean and not obstructed. Ensure windows and doors are closed to prevent warm air from entering the room.
- **Wi-Fi connectivity issues:** Ensure your Wi-Fi network is active and the unit is within range. Try restarting your Wi-Fi router and the air conditioner. Refer to the TCL Home app for specific connection instructions.
- **Unusual noises:** Some operational noises are normal (e.g., fan sound, refrigerant flow). If the noise is excessive or unusual, ensure the unit is installed securely and not vibrating against the window frame.

For more detailed troubleshooting or persistent issues, please refer to the full product manual or contact customer support.

8. Specifications

Feature	Detail
Model Number	8W9ER1-A
Cooling Capacity	8,000 BTU
Coverage Area	Up to 350 sq. ft.
Product Dimensions (D x W x H)	13.31 x 18.58 x 17.32 inches
Item Weight	51.2 pounds
Voltage	115 Volts
Noise Level	53 dB
Energy Efficiency	Energy Star Certified, SEER 10.0

Included Components	Remote Control, Remote Control Batteries, Foam Weather Seal, Window Kit, Quick Start Guide

9. Warranty Information

This TCL 8W9ER1-A Smart Window Air Conditioner comes with a **1-year limited manufacturer's warranty**. Please refer to the warranty card included with your product for full terms and conditions, including coverage details and how to make a claim.

10. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact TCL Customer Support. Contact information can typically be found on the TCL website or in the documentation included with your product.
You may also visit the TCL Store on Amazon for additional product information and resources.

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