Dreo AC515S

Dreo Portable Air Conditioner AC515S User Manual

Model: DR-HAC005S White New

Introduction

Thank you for choosing the Dreo Portable Air Conditioner AC515S. This versatile unit is designed to provide optimal comfort by offering powerful cooling, efficient dehumidification, and effective air circulation through its fan mode. With smart control options including APP, voice, and remote control, managing your indoor climate has never been easier. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new appliance.

Important Safety Information

Please read all safety instructions carefully before using this appliance to prevent injury to yourself or others and damage to the appliance. Keep this manual for future reference.

- Always ensure the unit is placed on a stable, level surface.
- Do not block air inlets or outlets.
- Ensure the power supply matches the unit's requirements (103-125V, 11-14A, 1150-1450W).
- Do not operate the unit with a damaged cord or plug.
- Keep children and pets away from the unit during operation.
- Unplug the unit before cleaning or maintenance.

Product Overview

The Dreo Portable Air Conditioner AC515S comes with all necessary components for quick setup and operation.

Components Included:

- Portable AC Unit
- Remote Control (with batteries)
- Window Mount Kit (modular panels)
- Exhaust Hose (59 inches)
- Drain Hose

Unit Dimensions:

- Height: 28.13 inches
- Width: 17.32 inches
- Length: 14.37 inches
- Weight: 62.9 pounds



Image: The Dreo Portable Air Conditioner AC515S unit, its remote control, and a smartphone displaying the control app interface.



Image: Diagram illustrating the height, width, and length of the AC515S unit, along with the extendable exhaust hose dimensions.

Setup

Placement:

For optimal performance, consider the room size, amount of direct sunlight, and insulation. The unit is designed for rooms up to 300 sq. ft. (optimal 200 sq. ft. for 12,000 BTU ASHRAE / 8,000 BTU DOE model).

Window Installation:

The modular window panels fit horizontal and vertical sliding windows from 17 to 53 inches. The 59-inch exhaust hose connects to the window kit.



Image: Visual guide for installing the window kit for both horizontal and vertical sliding windows, showing the exhaust hose connection.



Image: Diagram detailing the various modular window panel combinations for different window sizes, from 17 to 53 inches.

Operating Modes

The AC515S offers three primary operating modes to suit your comfort needs:

1. Cool Mode:

Provides powerful cooling with 12,000 BTU ASHRAE (8,000 BTU DOE) capacity. The temperature can be set between 61°F to 86°F. It features parabolic airflow for increased coverage up to 16 ft. away and an optimum coverage area of 200 sq. ft.

2. Dehumidifier Mode (Dry):

Effectively removes excess moisture from the air. This unit features a true drainage-free system with DREO's patented algorithm, sensors, and pump that automatically evaporate excess water, eliminating the need for manual drainage in environments up to 90% humidity.

3. Fan Mode:

Circulates air without cooling, offering multiple fan speed levels for customized airflow.

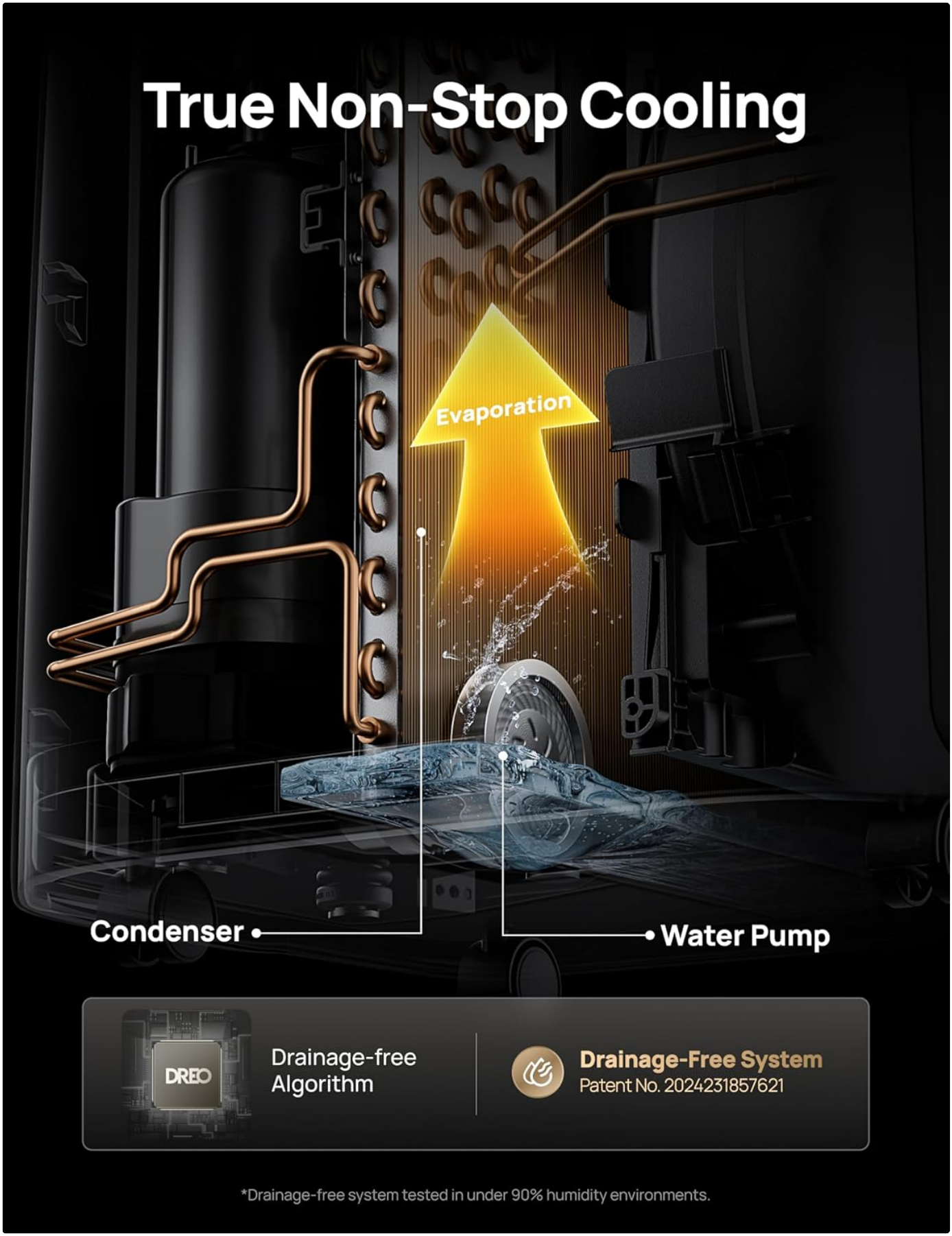


Image: The AC515S control panel and a smartphone showing the DREO app interface for controlling temperature, humidity, and modes.

Match Room Size to BTUs



Ashrae	DOE	Maximum area	Optimum usable area
8K BTU	5K BTU	150 SQ FT	80 SQ FT
10K BTU	6K BTU	200 SQ FT	100 SQ FT
12K BTU	8K BTU	300 SQ FT	200 SQ FT
14K BTU	10K BTU	400 SQ FT	300 SQ FT

Explanation:

i. The BTU cooling capacity listed in the table follows ASHRAE standards.
ii. Factors like room occupancy, sunlight exposure, and insulation can impact the required BTU capacity.
iii. Since BTU standards vary, it is wise to consult a professional to pick the right-sized portable air conditioner.

Image: Illustration of the three operating modes: Cool (61°F-86°F), Dry Mode (30-80% humidity setting), and Fan (4 levels).

Smart Control:

Control your AC515S with ease using the included remote control, the DREO app on your smartphone, or voice commands via Siri, Amazon Alexa, and Google Home. The app allows for monitoring temperature, humidity, customizing sleep curve functions, and setting smart schedules.

Maintenance

Regular maintenance ensures the longevity and efficiency of your portable air conditioner.

Cleaning:

- Clean the exterior of the unit with a soft, damp cloth.
- Regularly clean the air filter to maintain optimal performance. Refer to the app for cleaning reminders.

Drainage:

The AC515S features a self-evaporating system that typically eliminates the need for manual drainage in environments with humidity below 90%. However, in extremely humid conditions, or if the unit indicates a full water tank, manual drainage may be required. Use the provided drain hose for this purpose.

Troubleshooting

If you encounter issues with your Dreo Portable Air Conditioner, refer to the following common solutions:

Problem	Possible Cause	Solution
Unit not cooling effectively	Room size exceeds capacity; poor insulation; blocked air vents; dirty filter.	Ensure room size is within recommended limits (up to 300 sq. ft.); check window seals and insulation; clear any obstructions from vents; clean air filter.
Unit is noisy	Normal operating noise; unit not level; internal component issue.	The unit operates at a quiet 45dB, some noise is normal. Ensure unit is on a flat surface. If noise is excessive, contact customer support.
Temperature display inaccurate	Sensor discrepancy.	A slight discrepancy (e.g., 2-5°F) between the unit's display and external thermometers can occur. This does not typically affect cooling performance.
Water tank full indicator (if applicable)	High humidity; self-evaporation not keeping up.	Drain the water tank manually using the provided drain hose.

For further assistance, please contact Dreo customer support.

Specifications

Feature	Detail
Brand	Dreo
Model Number	DR-HAC005S White New
Cooling Power (ASHRAE)	12000 BTU
Cooling Power (DOE)	8000 BTU
Floor Area Coverage	Up to 300 sq. ft. (Optimal 200 sq. ft.)

Feature	Detail
Noise Level	45 dB
Power Output	1150 - 1450W
Voltage	103 - 125V
Current	11 - 14A
Product Dimensions	14.37 x 17.32 x 28.13 inches
Item Weight	62.9 pounds
Refrigerant	R-32
Special Features	Work with Alexa & Google Assistant, Large LED Display, Drainage-free in cool mode, Powerful Fast Cooling

BTU to Wattage Reference:



Image: Table showing BTU (DOE and ASHRAE) corresponding to Power Output (W), Voltage (V), and Current (A).



Image: Table providing guidance on matching BTU capacity to room size, including maximum and optimum usable areas.

Warranty and Support

Dreo provides a 1-year warranty as standard for the AC515S. For any product guidance or support, Dreo expert customer service is available 24 hours a day.
For customer service inquiries, please refer to the contact information provided in your product packaging or visit the official Dreo website.

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