DREO | WH517S

NO.1
Space Heater Brand in The U.S.*

*Based on Stackline data for Amazon U.S. Retail Sales of Space Heaters from Jan 2023-Dec 2023

Key Message House

Product Name	**DREO Wall Mounted Heater WH517S/AS**				
Product Positioning	Fast-Heating and Ultra-Safe Smart Wall-Mounted PTC Heater				
Scenario	Small Living Room / Bathroom / Bedroom / Garage/ Caravan				
Top KSPs	Instant High Efficiency heating	All-around safety	Smart Control	Precise Temperature Control with ECO	User-Centric Experience
Supporting Evidence	• WH517 increases heating power by 50% compared to conventional infrared heaters thanks to its new PTC heating design. • AC motor, centrifugal fan wheel let the air flow speed reach up to 11.5 ft/s, achieving a stunning 154 m³/h of heating volume. • The PTC element has a wave design with increased distance between fins to 4 mm, which improves air delivery by 53.8% compared with the previous generation. • The air outlet can be manually adjusted: 15° up and down, for a total of 30°	• PTC Multiple plug options: Safety Plug (Model S); ALCI plug (AS model bathroom) • IP24 waterproof and dustproof • 5VA fire rating (*upgraded, previously V0): fireproof and anti-scald. • Overheat Protection • Thermal Insulated Wiring. • ETL Listed • Child-Lock • Cool Touch Housing • Ultra heavy-load capacity, 300 lb. load test.	• Voice Alexa/google home audio and DREO app for precision temperature control. • Schedule: Timed power on/off; Time scheduling • Window-Open Detection Reminder: Alerts users when windows are open to prevent unnecessary energy loss. • Receive notifications on the DREO app when your heater encounters a malfunction WH517S/AS : • E0: MCU and control board communication failure. • E1: Temperature sensor malfunction. • F2: Over-temperature protection mode. • UH: High voltage protection.	• Precise Precise Temperature Control: From 41°F to 95°F, ensuring exact warmth according to user preferences. • NTC Sensor with Higher Precision: ±1.5°F accuracy, providing precise temperature monitoring for optimal comfort. • ECO mode accurately controls heat power helping you get 40% energy savings.	• Whisper-quiet: New air duct with horizontal impeller and arc-sin turbine design drives air smoothly for an ultra-quiet 28dB noise. • 4 steps easy installation • Compact Space-Saving Design • Versatile Mode Options • Touch Screen Control • Remote Control • Cord Storage Space

Specifications

WH517S

WH517AS
(With ALCI Plug Fit for Bathroom Use)

Performance	NTC Precision Detection	Accurate Adjustable Thermostat
	ALCI Plug (WH517AS)	Enhanced safety for bathroom use.
	Innovative airflow channel	Non-equal pitch impeller
	Hyperamics™	PTC ceramics allows instant uniform heating
	TurboSilent	Maximum air velocity and minimum noise
	Shield 360°	Heat up your day and night without worries
	Product Size	4.72''D*12.20''W*15.75''H
Feature	Noise Level	28 dB in H1 mode
	Warm Wind Mode	H3: 1500W, H2: 1300W, H1: 900W
	Cool Wind Mode	Cool wind to help cool down the product shutdown
	ECO Mode	Adjustable thermostat 41-95°F in 1 °F increment
Setting	Blade adjustment	Manually adjusted 30°
	Safety	IP24 Rating, 5VA flammability Rating, Safety Plug (Model S); ALCI plug (AS model bathroom), Overheat Protection,Thermal Insulated wire, ETL Listed, Child-Lock, Cool Touch Housing,Heavy duty mount
	Timer	Timer shutdown mode 1h to 24h
	Remoter	Turn on-off, ± Temperature, Mode, Mute, Timer

Specifications

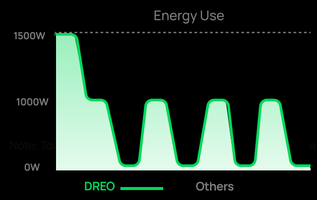
WH719S

Performance	NTC Precision Detection	Accurate Adjustable Thermostat
	ALCI Safety Plug	Enhanced safety for bathroom use.
	Innovative airflow channel	Extended impeller
	Hyperamics™	PTC ceramics allows instant uniform heating
	TurboSilent	Maximum air velocity and minimum noise
	Shield 360°	Heat up your day and night without worries
	PTC Plate	280-inch large PTC with maximum wavelength
	Product Size	4.52"D*20.15"W*13.18"H
Feature	Noise Level	28 dB in H1 mode
	Warm Wind Mode	H3: 1500W, H2: 1300W, H1: 900W
	Cool Wind Mode	Cool wind to help cool down the product shutdown
	ECO Mode	Adjustable thermostat 41-95°F in 1 °F increment
Setting	Blade adjustment	120° smart control Oscillation
	Safety	5VA flammability Rating, SafetyPlug (WH719S);FortPlug™ (WH729S); ALCI plug (WH739S for bathroom), Overheat Protection, Thermal Insulated wire, ETL Listed, Child-Lock, Cool Touch Housing,Heavy duty mount
	Timer	Timer shutdown mode 1h to 24h
	Remoter	Turn on-off, ± Temperature, Mode, Mute，Timer

Heat at Full Power

Blazing Fast Heat

40% energy saving



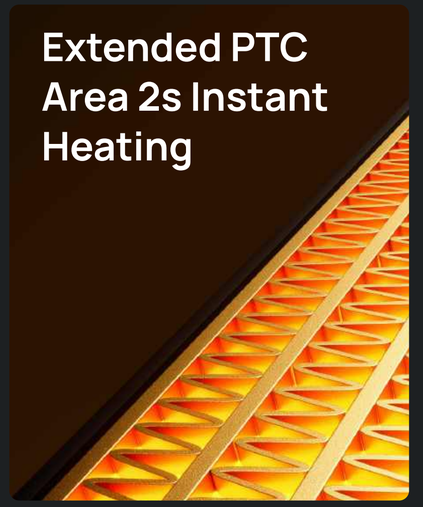
24H Timer

5VA Flammability Rating

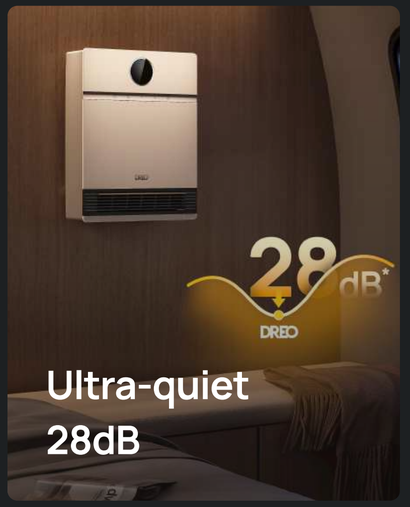
Powered by Hyperamics

Smart control

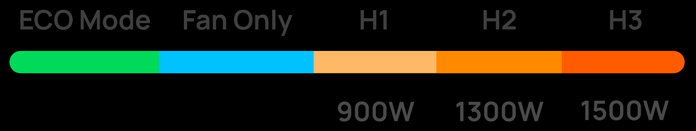
Extended PTC Area 2s Instant Heating



Ultra-quiet 28dB



ECO Mode Fan Only H1, H2, H3



Cool Touch Housing

IP24 Splashproof

DREO

Heat at Full Power

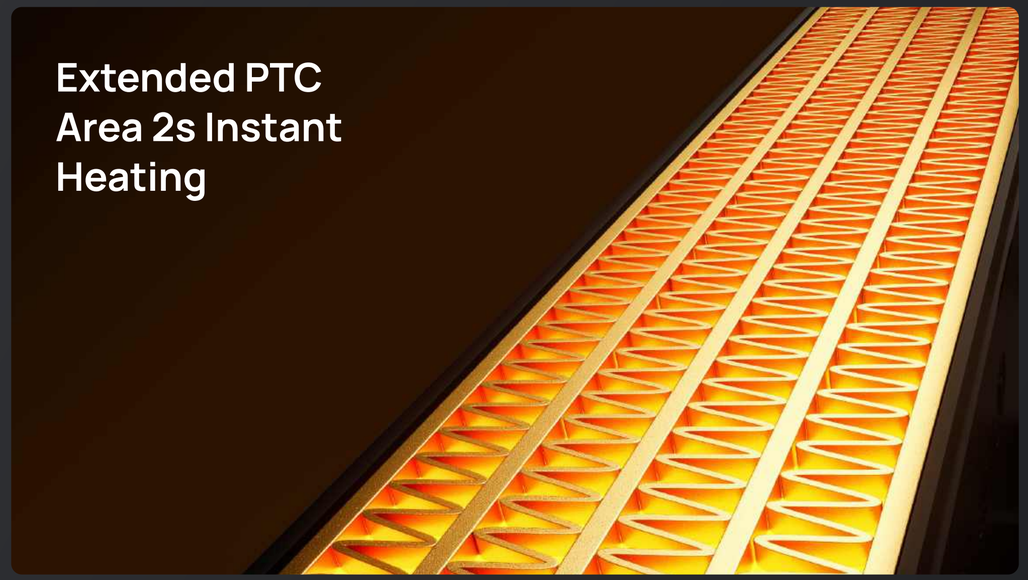
Feel the heat even from afar with DREO's wall-mounted space heaters, which use large PTC ceramics design to deliver instant heat.

Powered by
Hyperamics

*Test conducted by DREO lab.

Upgraded Thermal Design

Discover DREO's advanced PTC plate technology. Enhanced heating element design ensure superior heat distribution and rapid warming for ultimate comfort.



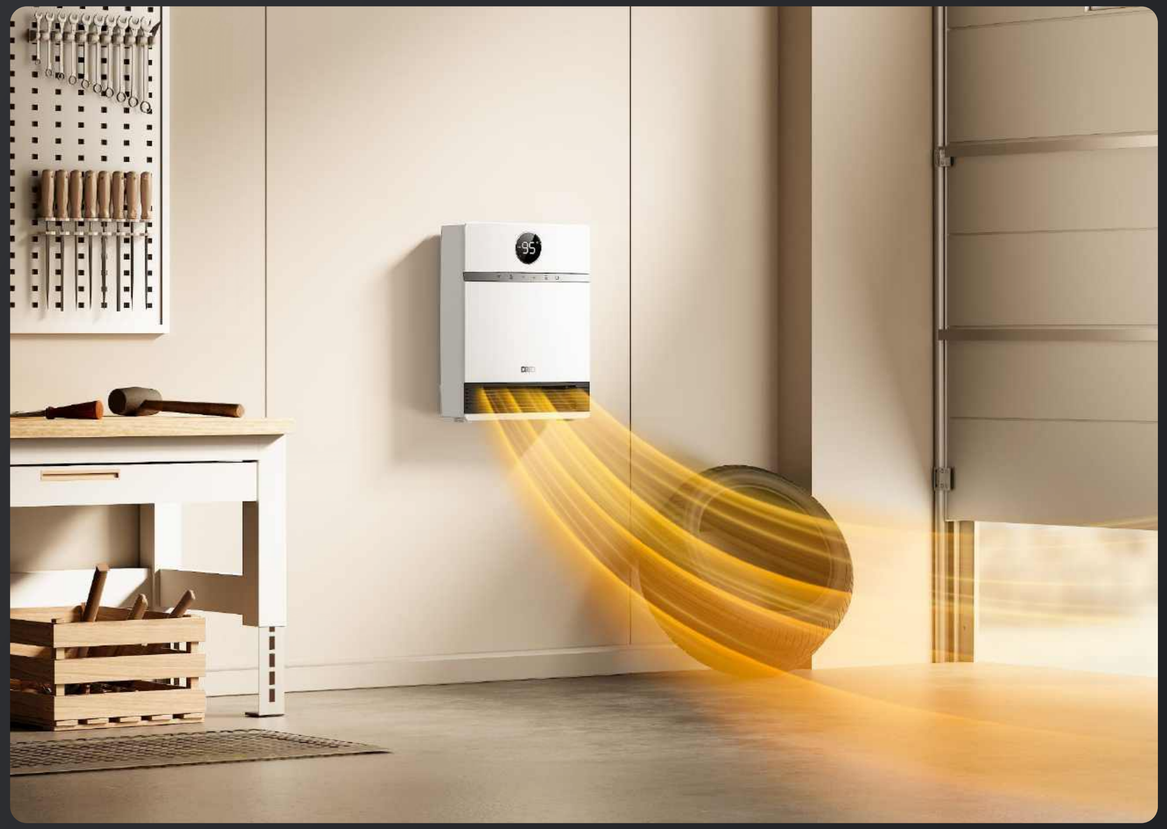
Powered by
Hyperamics

Blazing Fast Heat Delivery

Advanced impeller design, worm shell tapering lines.

DREO

Do More with Smart Control



Access your heater settings from anywhere with the DREO app, or even use your voice to control it thanks to Alexa and Google Home compatibility.

DREO

Powered by Shield360°

Multi-layer Protection

- 5VA Flammability Rating
- Overheat protection

- IP24 Splashproof
- ETL Listed
- Smart Safety Notifications
- Cool Touch Housing

- Child-Lock
- Enhanced Safety Plug
- Thermal Insulated Wiring
- 300 lbs Heavy Duty Mount

DREO

WH517AS

Warm up Bathrooms and Beyond

ALCI
Safety Plug

IP24
Splashproof

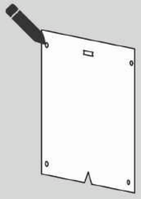
DREO

Upgraded DC Motor for Ultra-quiet Heat

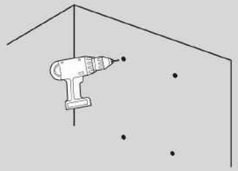
* Tested under internal laboratory conditions at lowest speed setting

DREO

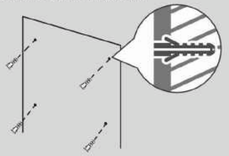
Hassle-free Installation



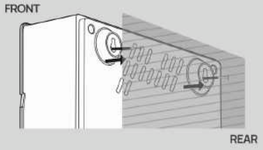
Step 1
Mark anchor points



Step 2
Drill pilot holes



Step 3
Insert wall anchors



Step 4
Mount & secure the heater

Product Comparison

Product Name	DREO WH517S	DREO WH719S	Heat storm	Heat storm	Econo Home	Envi
ID						
Price	$99	$149.99	$103.48	$109.99	$149.00	$199.95
Sizes	15.75*12.20* 4.72 inches	4.52*20.15*13.18 inches	19*13*4 inches	13*3.63*16.5 inches	26*20*3 inches	2.25*19.25*22.28 inches
Wattage	1500W	1500W	1500W	1000W	400W	500W
Adjustable Thermostat	√ 41-95 °F	√ 41-95 °F	√Max. 72 °F	√Max. 72 °F	No	No
Oscillation	Mannual 30°	IoT 120°	No	No	No	No
Silent mode	√	√	√	√	No	√
Overheating protection	√	√	√	√	√	No
Tip-over protection	√	√	√	√	No	√
Precise temperature control	√	√	√	√	No	No
Eco Mode	√	√	√	√	No	No
Convenient Installation	√	√	√	√	No	√
Power cord storage	√	√	√	√	No	No
IOT	√	√	√	√	No	No

Review Procedure

1. Packaging

- **Contents:** Ensure all components are included as per the instruction manual (heater unit, remote control, user manual, wall anchors, etc.).

2. Initial Inspection

- **Aesthetics:** Comment on the design and appearance of the heater.
- **Controls and Display:** Evaluate the usability and visibility of the controls and display.

3. Functionality Testing

- **Heating Efficiency:** Test the heater's efficiency and speed in heating a room.
- **Oscillation Feature:** Test the adjustable oscillation function at different angles to ensure uniform heat distribution.
- **Smart Control:** Test compatibility with Alexa and Google Home and the Dreo app for scheduling and remote control.
- **Safety Features:** Test the ALCI plug, overheat protection, and child-lock features for effectiveness.

4. Performance Evaluation

- **Temperature Control:** Set to ECO mode then evaluate the precision of the temperature control from 41°F to 95°F.
- **Heating Coverage:** Test the heater in different room sizes to verify coverage
- **Noise Level:** Measure the noise level during operation to ensure it is within acceptable limits for a quiet environment.

5. User Experience

- **Ease of Use:** Evaluate the ease of setup and daily use, including the installation process and remote control functionality.
- **Maintenance:** Assess the ease of maintaining the heater, such as cleaning the removable filter.
- **Comfort:** Assess the overall comfort provided by the heater in different modes and settings.

Review Consideration

1. Setup and Installation

- **Ease of Setup:** Note any difficulties or ease of following setup instructions.
- **Instruction Clarity:** Evaluate the user manual for helpfulness and clarity.

2. Smart Control

- **Voice Control:** Test Alexa and Google Home compatibility.
- **App Control:** Evaluate the Dreo app for scheduling and settings adjustment.
- **Integration:** Verify seamless smart home system integration.

3. Features and Functionality

- **Test Settings:** Assess the functionality of heating speeds, fan speeds, and ECO mode.
- **Oscillation:** Test adjustable oscillation angles.

4. Performance

- **Fast Warming:** Time the heating speed and compare with product claims.
- **Temperature Control:** Verify thermostat accuracy and temperature consistency.
- **Adjustable temperature:** adjustable 41-95 °F (In 1°F Increments) under ECO mode.

5. Safety Features

- **Test Safety Mechanisms:** Check overheat protection, tip-over protection, cool touch housing, and child-lock functionality.

6. User Experience

- **Ease of Use:** Assess user-friendliness of controls and remote.
- **Comfort:** Determine overall comfort provided by the heater across different settings.