

Menred SMART O2 S1

SMART O2 S1 Wall-Mounted Fresh Air Purifier

User Manual

Brand: menred



Important Notice

Please read this manual thoroughly before installation and operation.

This document is compiled based on official product specifications, covering daily operation, installation preparation, button & indicator identification, and filter maintenance. For installation involving wall drilling and electrical wiring, it is strongly recommended to be performed by qualified professional technicians.

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1. Product Overview

The S1 wall-mounted fresh air purifier is a wall-mounted unit dedicated to outdoor air intake purification and indoor ventilation. It features a slim profile, rounded exterior, low power consumption, high-efficiency PM2.5 filtration, and is designed to deliver fresh air supply for small living spaces.

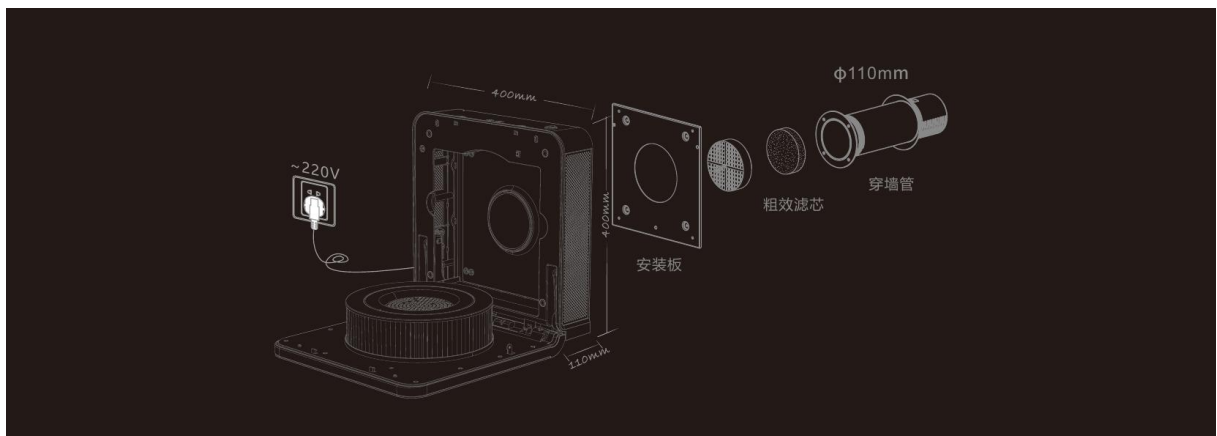
Recommended application: Rooms with a floor area below 50 m², or spaces occupied by no more than 3 people.

2. Application Scenarios & Technical Specifications

Item	Specification
Product Name	S1 Wall-Mounted Fresh Air Purifier / SMART O2 S1
Product Category	Outdoor air intake purification ventilator
Recommended Space	≤ 50 m ² , or rooms with ≤ 3 occupants

Rated Power	4 W
Noise Level	22 dB(A)
Nominal Airflow	81 m ³ /h; reference values: approx. 30 m ³ /h per person, 90 m ³ /h total (for reference only)
Filtration Performance	PM2.5 removal; measured outlet PM2.5 concentration ≤ 10 µg/m ³ (when inlet PM2.5 ≤ 500 µg/m ³)
Power Supply	~220 V AC
Wall Opening Diameter	φ110 mm
Unit Dimensions (Reference)	Approx. 400 × 400 × 110 mm (W × H × D)

3.Components & Pre-Installation Preparation



3.1 Main Components

- Main unit
- Mounting bracket
- Through-wall duct sleeve
- Pre-filter (primary efficiency filter)

- Main filter assembly (for PM2.5 removal)

3.2 Pre-Installation Checklist

- Confirm the wall structure supports through-wall ventilation.
- Ensure a ~220 V AC power outlet is accessible near the installation site.
- Select a position that allows easy removal of the main unit and filter replacement.
- This manual does not specify detailed wall construction standards. Actual construction shall comply with local waterproofing and air-sealing requirements based on wall material.

4. Installation Procedure

1. Select a mounting position on the exterior wall, avoiding embedded pipelines, load-bearing structures, and areas with high temperature or humidity.
2. Mark drilling positions according to the mounting bracket, and drill a $\phi 110$ mm through-wall opening.
3. Install the through-wall duct sleeve, and seal both interior and exterior wall sides to prevent rainwater backflow and air leakage.
4. Fix the mounting bracket securely, and confirm it is horizontally level.
5. Install the pre-filter and main filter assembly, ensuring correct orientation and proper seating.
6. Mount the main unit onto the bracket, and connect the ~220 V AC power supply.
7. After power-on, short-press the control button to verify normal operation of low speed, high speed, shutdown, and indicator status.

5. Button & Indicator Operation

The unit adopts single-button control. The indicator color and flashing pattern correspond to different operating states.

Operation & Light Status	Device State	User Guidance
Single press → steady green light	Low-speed operation	For daily low-airflow ventilation
Single press → steady red light	High-speed operation	For scenarios requiring higher airflow and rapid

		air exchange
No light	Unit powered off, or indicator auto-off after 15 seconds of inactivity	Press the button again to check status, or view real-time status via the mobile APP
Red light flashing continuously	Filter service life expired	Replace the filter, then long-press the button for 5 seconds until the light turns green to reset the filter timer
Long press for 10 seconds → red light flashes rapidly for 5 seconds	Factory reset completed	Use only when full settings reset is required
Green light flashing rapidly	OTA firmware upgrade in progress	Wait for the upgrade to complete; do not cut power during the process
Red & green light flashing alternately for 5 seconds	Bluetooth pairing mode (valid within 1 minute after power-on)	Complete remote control pairing within the time window

Additional Notes

- The indicator light turns off automatically after 15 seconds of no operation.
- The unit remains in APP pairing mode 24/7. You can check pairing status directly in the mobile APP without observing the unit indicator.
- Indicator always-on mode can be enabled or disabled in the mobile APP.

6. Filter Maintenance & Life Reset

A continuously flashing red indicator means the filter has reached the end of its service life. Replace the filter promptly to maintain rated airflow and purification efficiency.

Replacement Procedure

1. Power off the unit and disconnect the power supply.

2. Remove the front cover or filter compartment of the main unit, and take out the used filter.
3. Install the new filter assembly, and confirm it is fully and correctly seated.
4. Reconnect the power supply. Long-press the button for 5 seconds; the filter life reset is complete when the indicator turns green.

Maintenance Reminder

No fixed cleaning cycle is specified in official documentation. In daily use, inspect or replace the filter in advance if you notice a significant drop in airflow, abnormal noise increase, or severe discoloration of the filter media.

7. Remote Control, APP & Firmware Upgrade

Item	Description
Remote Control Pairing	Pairing is available within 1 minute after power-on, indicated by red & green light flashing alternately for 5 seconds
Mobile APP Pairing	The unit stays in pairing mode 24 hours a day; check and manage pairing status directly in the APP
Indicator Setting	Enable or disable the always-on indicator mode in the mobile APP
Automatic Upgrade	The unit supports OTA (Over-the-Air) automatic firmware upgrade. A rapidly flashing green light indicates an upgrade is in progress

8. Daily Operation Recommendations

- Run the unit on low speed during daily occupancy to balance ventilation

performance and low noise.

- Switch to high-speed mode when occupancy increases, indoor air feels stuffy, or rapid air exchange is needed.
- Power off the unit if it will not be used for an extended period. Resume operation via the button or APP when needed.
- Keep the air inlet and outlet unobstructed; do not block them with curtains, furniture or other objects.
- Always replace the filter before resetting the filter timer. Never reset the timer without replacing the filter.

9. Troubleshooting

Symptom	Possible Cause	Solution
No indicator light	Unit is powered off, indicator auto-off after 15s inactivity, or power supply disconnected	Short-press the button to start the unit; verify the ~220 V AC power connection
Red light flashing continuously	Filter service life expired	Replace the filter, then long-press for 5 seconds to reset the filter timer
Green light flashing rapidly	Firmware upgrade in progress	Wait for the upgrade to complete; do not cut power during the process
Remote control pairing failure	Exceeded the 1-minute pairing window after power-on	Power off and restart the unit, then complete pairing within 1 minute
APP pairing status abnormal	Network or account exception	Check pairing status in the APP and follow on-screen prompts
Reduced airflow	Clogged filter, or blocked air inlet/outlet	Inspect the filter, clean air vents, and replace the filter if necessary