



BROAD AIR

Clean Air Shared By All Humans

BROAD CLEAN FRESH AIR MACHINE

SR260

USER'S MANUAL



Username:

2-YEAR WARRANTY

2022.10 English



SAFETY INSTRUCTIONS

1. Please read this manual carefully and retain for future use
2. Make sure that the power voltage is consistent with the voltage indicated in the label pasted on the machine
3. The power cord shall comply with local standards. If it is damaged, it must be repaired or replaced by the manufacturer or a qualified professional to avoid electric shock
4. The grounding wire shall well insulated
5. When opening the machine door, do not press the safety switch with hands or other objects to prevent electric shock and avoid scratching
6. Clean the internal parts of the machine or cut off the power before maintenance, and remove the baffle and protective cover for cleaning, Water is not allowed inside
7. Do not block the exhaust vent and air supply vents of the fresh air machine
8. This product is not suitable for people with low physical function and intelligence level (including children) to operate
9. Do not dispose this product with ordinary garbage. Take it to a qualified electrical waste station for recycling.

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TO USERS

Dear Users,

Thank you for choosing BROAD Clean Fresh Air Machine.

Since its establishment, BROAD has been adhering to the service motto of "Sincerity, Diligence and Strictness", and the philosophy of "Providing Unique Value for Customers". BROAD has been continuously improving our service and our quality to ensure that all BROAD's clean fresh air systems provide indoor air that is 100 times cleaner than outdoor air, and this commitment will be fulfilled throughout the product's lifespan.

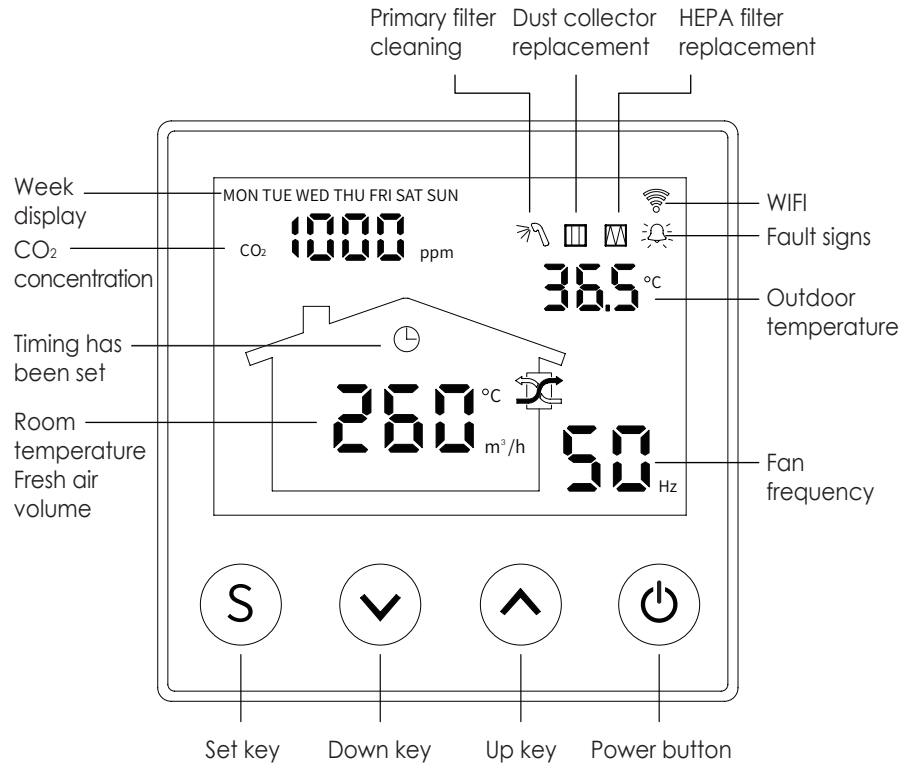
In order to ensure the long-term stable operation of the product to create a healthy and comfortable working and living environment, we have made a Scope of Work for BROAD service engineers to follow. We appreciate your support and supervision, and welcome your comments.

1. The engineer must make an appointment in advance with the user for on-site service. If the engineer cannot keep the appointment for any reason, a call to the customer should be made at least 15 minutes in advance
2. The engineer must train the user on machine operation, and should demonstrate electrostatic cleaner dust scraping and cleaning, as well as purification efficiency testing during the first site service
3. Air quality standard: The air from the fresh air outlet must be 1,000 times cleaner than the outdoor air, and the indoor air must be 100 times cleaner than outdoor air (or up to acceptance standard)
4. The engineer must conduct air detection after service. If the standard is not met, a written explanation and improvement recommendation should be made
5. The working site must be cleaned after the service is finished
6. All service work must be well recorded

This manual serves as a maintenance guide book, which is of great significance to the operation and management of the fresh air machine. Please keep it handy.

Thank you again for your support. We appreciate your supervision and valuable suggestions

CONTROLLER INTERFACE



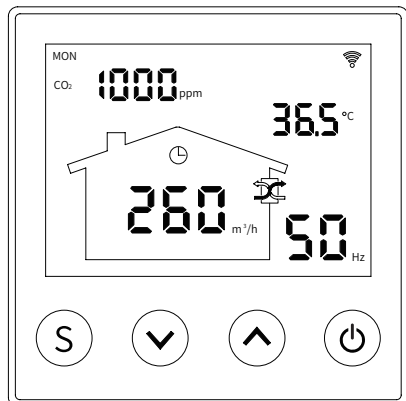
- Short press "on/off key" to turn on/off
- Press the "down key" to reduce the setting frequency in the startup state of wind speed adjustment; Press the "up key" to increase the setting frequency

SWITCH VALUES

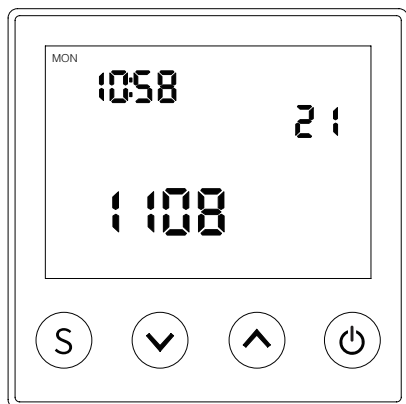


- When multiple values are displayed in the same area, they will be displayed in turn by time
- CO₂, time, switching frequency 5 seconds/time
- Air volume, indoor temperature switching frequency 7 seconds / time

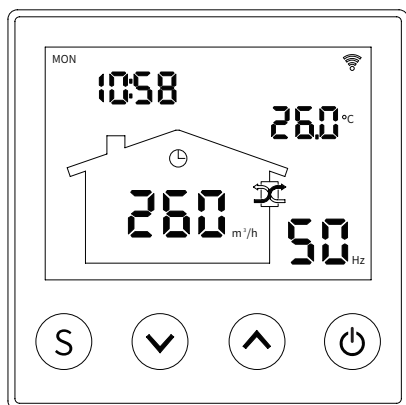
TIME SETTING



- Press the "set key" (5 seconds) to turn on the time setting

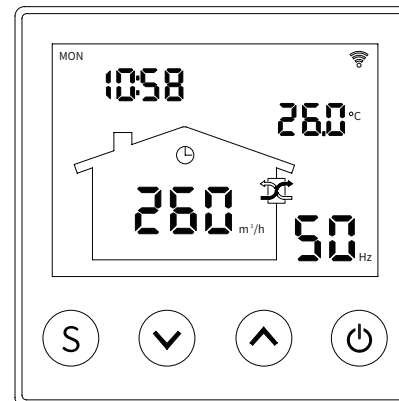


- In time setting mode, display week, hour, minute, year, month, day
- Press the "setting key" for a short time to switch the week, hour, minute, year, month, day (The corresponding area of the selected flashes)
- Press the up and down keys for a short time to adjust the value of week, hour, minute, year, month and day
- Press the key for a short time, the red light is on to confirm the time setting value (press for a long time is invalid), and exit the time setting mode, return to the main interface

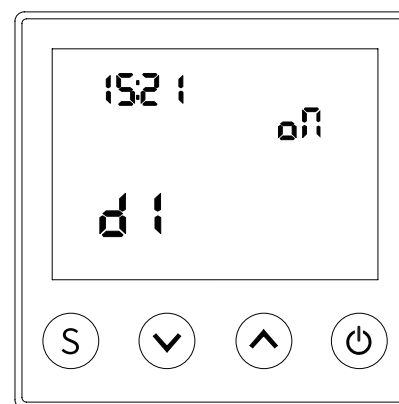


- Press the "setting key" (5 seconds) for a long time or wait for 2 minutes without any key operation to exit the time setting mode
- The time is saved in the controller; the default time is Monday, 8:00AM

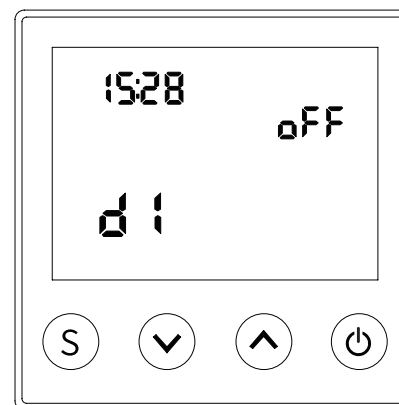
TIMING SETTINGS



- Press the "Set key" + "Down key" (5 seconds) to enter the timing setting mode, and display the timing mode of the last settings
- Display timing mode in the left lower number of broken code, which can switch the display mode: D1 (single), D2 (daily), D3 (working day), D4 (weekend)
- The upper right broken code number is switched to the left to display the boot and shutdown symbols, and the display can be switched cyclically: ON (boot logo), OFF (shutdown logo)

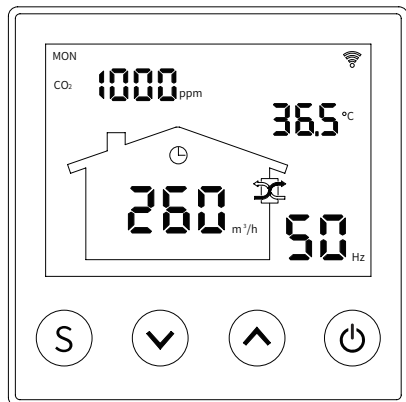


- The upper left broken code number displays the timing hours and minutes; the rest of the icons are not displayed
- When setting the timing time, the timing mode starts to flash, and the selection mode can be switched by the up and down keys (only 1 can be selected), press the "on-off key" to confirm
- Display the power-on logo, press the "setting key" for a short time to switch between hours and minutes (the corresponding area selected flashing), press the "On/Off key" to confirm
- Then display the shutdown logo, press the "setting key" for a short time to switch between hours and minutes (the selected corresponding area is flashing), press the "on/off key" to confirm

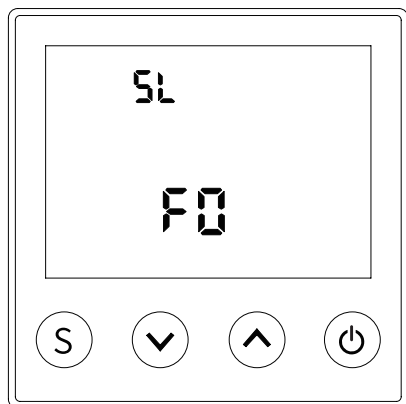


- On/off key" to enter the next setting area after confirmation
- Short press the up and down keys, you can adjust the value of the hour or minute
- Press the "setting key" (5 seconds) for a long time or wait for 2 minutes without any key operation to exit the time setting mode
- The timing time is saved in the controller; the default is d1 mode, the startup time is 00:00; the shutdown time 00:00 (does not execute when the time is repeated)

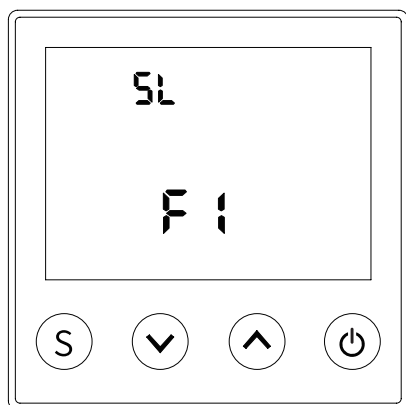
DISTRIBUTION NETWORK SETTINGS



- Scan the QR code to download BROAD Air Butler, and the installation is complete. Open the APP, register an account, enter the main interface
- Connect the fresh air machine to the same WIFI as the mobile phone. Click the "+" sign in the upper right corner of the APP to add a fresh air machine. Fill in the address information and WIFI password as required



- Long Press the setting button and the up button at the same time, set F0 to F1, then enter the network configuration mode, the WIFI icon starts flashing. After the network configuration is successful, the WIFI icon will turn into a long light



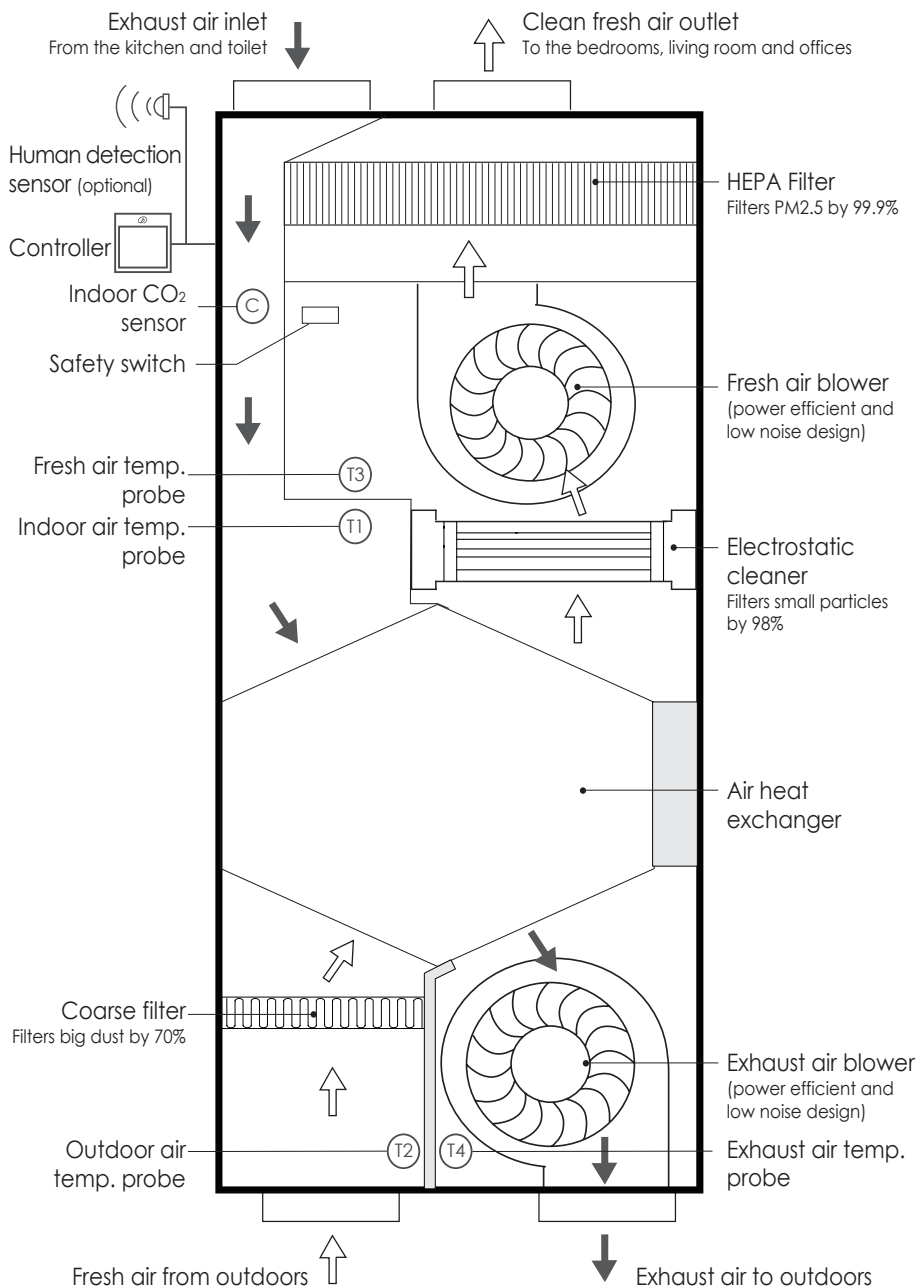
Scan to download APP

FAULT CODE DEFINITION

No.	Prompt code	Meaning	Description
1	ER01	Communication failure of fresh air machine's control board	The working conditions and parameters of the fresh air are displayed as
2	ER02	Air supply (Exhaust air) fan failure	The air volume is displayed as 0, and the heat exchange symbol is not displayed
3	ER03	Exhaust fan failure	Heat exchange symbol is not displayed
4	ER04	Indoor temperature failure	The temperature is displayed as - - . -
5	ER05	Outdoor temperature fault	The temperature is displayed as - - . -
6	ER08	CO ₂ sensor abnormal	Show icon
7	ER09	Carbon dioxide over the upper limit	Show icon
8	ER10	Dust Collector Cleaning Tips	Show icon
9	ER11	Coarse filter cleaning tips	Show icon
10	ER13	HEPA filter replacement tips	Show icon
11	ER14	Anti-ice reminder for fresh air machine	Show icon
12	ER15	Human body sensor module failure	Optional valid

Note: Press any key to clear the fault code for 2 minutes, after 2 minutes, the fault will be eliminated if the alarm sign does not light up

COMPONENTS



MAINTENANCE & WARRANTY

Filter Cleaning and Replacement

1. Electrostatic Cleaner Cleaning
Frequency: 1~3 months, depending on dust thickness
2. Coarse Filter Cleaning
Frequency: Every 1~3 months, depending on dust thickness
3. HEPA Replacement
 - Frequency: Every 2~5 years, depending on dust thickness
 - Record the next replacement time on the new HEPA filter
4. Air Heat Exchanger Cleaning
 - Frequency: Every 2~4 years
 - Remove and wash with detergent, rinse with clean water, and dry thoroughly (Do not use hot water to clean or dry the hot air to avoid destroying the internal membrane structure)
5. Internal Component Cleaning
 - Frequency: Every 1~3 years
 - Wipe the fan and the machine's inner case with a wrung wet towel, be careful not to scratch the fan blades

Note: If the filter is blocked, the ventilation function will be lost, and it may also cause the fan to overheat, burn out, etc.

Lifetime Service:

BROAD provides optional lifetime service for its clean air products, since the date of purchase, free 2-year product warranty, and the motor warranty is 5 years. After the warranty expires, the user can sign an annual maintenance agreement with BROAD, who will provide various value-added services such as cleaning, maintenance, and testing. The service cost is about 5% of the equipment price

Warranty:

BROAD clean air products take "Best Purification Effect", "Minimum Energy Consumption", "Zero Downtime" and "40-Year Lifespan" as its maintenance goals. For cleaning and maintenance, please refer to "Operation and Cleaning" posted on the machine and the user manual for more details. Each maintenance must strictly follow the maintenance procedures and record the steps in detail. The maintenance work for commercial users is suggested to be completed or supervised by BROAD service engineers (or BROAD authorized service providers). Domestic users can perform maintenance by themselves or entrust BROAD

Precautions:

1. It is recommended to keep the fresh air machine running at 30 ~ 40Hz, which can be tuned higher when the number of people increases. Do not run it at full load if not necessary
2. Keep the doors and windows closed tightly to ensure a slight positive pressure indoor
3. Turn off the range hood and exhaust fan immediately after cooking
4. Note that smoking and incense burning will affect air quality
5. When there is no one in the room for a long time, set an automatic 15-minute running for every morning and evening to ensure the basic cleanliness of the room

Standard Accessories

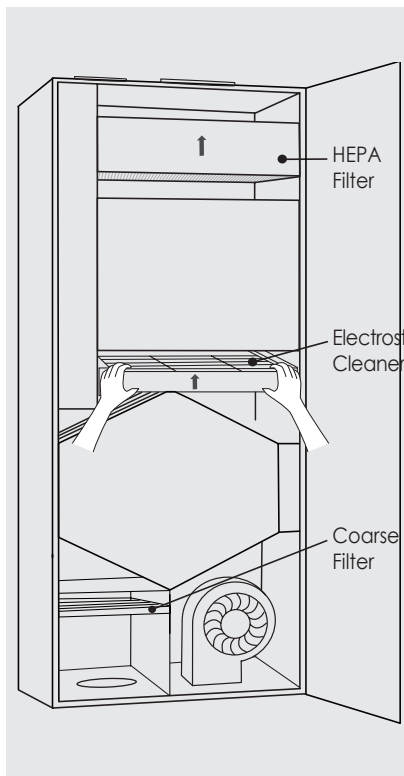
touch controller	1 PCS
Rainproof	Φ160*2 PCS
Dedicated brush for dust collector	2 PCS
Ribbon	5 PCS
Exhaust check valve	1 PCS
ST2.9*6.5 self-tapping screws	4 PCS

ELECTROSTATIC CLEANER CLEANING

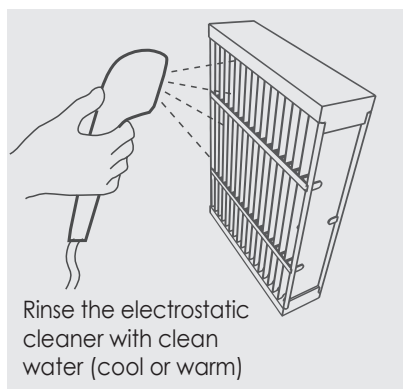
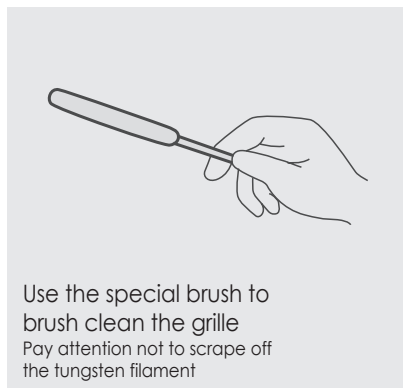
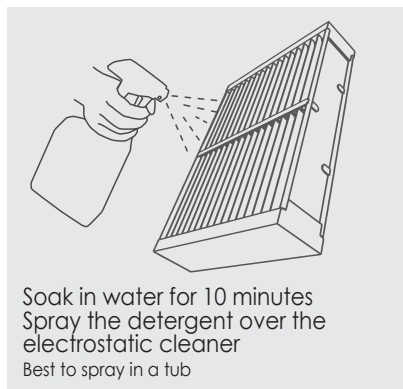
Clean the electrostatic cleaner every 1~3 months. If the electrostatic cleaner has collected over 1.5 mm of dust, it must be cleaned immediately

■ Remove the electrostatic cleaner

Cut off the power, open the door, loosen the block screw, and remove the electrostatic cleaner



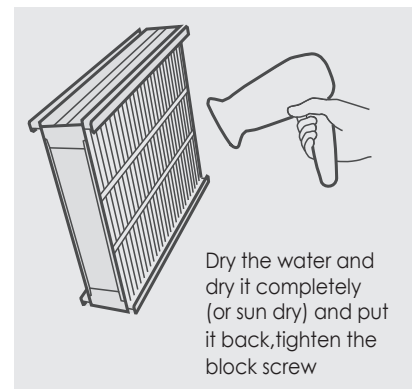
■ Cleaning Method: Detergent Cleaning



ELECTROSTATIC CLEANER & COARSE FILTER CLEANING

Clean the Coarse Filter Every 1~3 Months

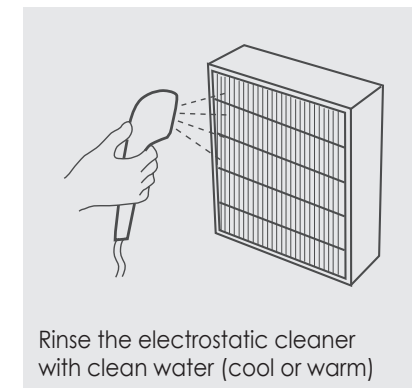
■ Blow dry after cleaning



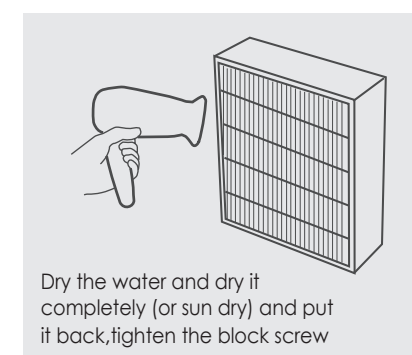
■ Fan Cleaning



■ Cleaning Method: Detergent Cleaning



■ Blow dry after cleaning

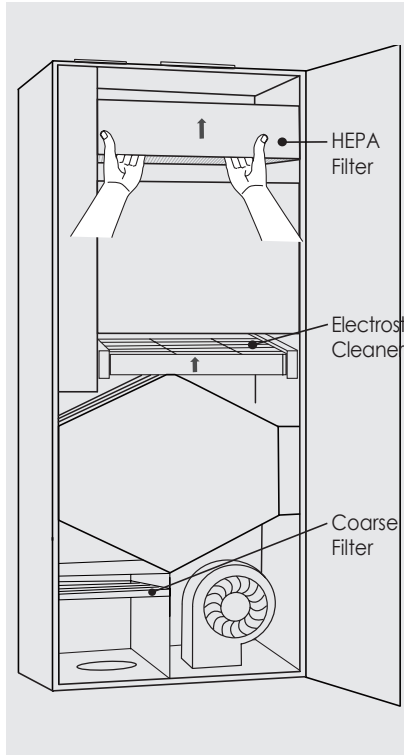


HEPA FILTER REPLACEMENT

The HEPA filter must be replaced every 1~2 years

Take out the old HEPA filter

Shut off the power, open the door, loosen the block screw, hold the HEPA filter evenly with both hands, pull it out



Load the new HEPA filter

- The loading steps of a new HEPA filter are opposite to that of removing it
- Keep the arrow point of the HEPA filter the same as it was taken out
- Hold the HEPA filter evenly with both hands, push it in, tighten the block screw
- Record the next replacement time on the new HEPA filter

Note:

you can buy a new HEPA filter from BROAD's official shop, or call +86-400- 883-9333 for HEPA filter replacement consultation

INSTALLATION

Installation Process

Preliminary preparation:
Determine the installation location of the unit and air duct installation line according to the design, put the sample (scratch), prepare tools and accessories, and prefabricate ducts as required



Open fresh air hole / exhaust hole:
Open fresh air / exhaust holes and unit fixing bolt holes according to the installation dimension drawing



Duct installation:
Drilling holes to install bracket hangers, air ducts through the wall, ceiling openings, installation of air ducts, as well as the installation of wind resistance



Fresh air / exhaust pipe installation:
Take off the right-length ducts, combine with screws with the air duct joint and rain cover in the accessories, and place the random supporting new exhaust joint into the fresh air/ exhaust pores on the wall, seal the gap with a foam filler



Fresh air machine in place:
The machine is connected with the pre-installed duct, and fix the body wall hanging or ceiling to ensure that the power supply floor line is in place, access to AC 220V power

Notes:

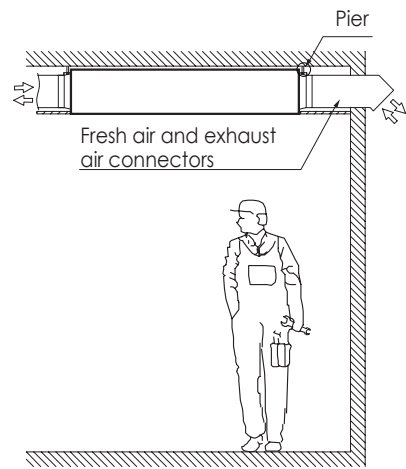
1. Preliminary preparation
Materials are complete and intact, tools are safe and reliable, waterproof film is laid on the wall and ground before opening, and the drill bit is installed with waterproof and dustproof treatment to avoid dust pollution of the room
2. Open fresh air hole / exhaust hole
Avoid the beams and load-bearing walls on the open hole. The outer hole outside the wall should be slightly lower than the inner hole 5-10mm, and the rainwater should be prevented from entering the room
3. Duct installation:
 - Duct installation should be clean, as far as possible along the wall paving, do not damage the decorative aesthetics, elbows should not be too much, as far as possible to avoid sharp bends and sudden changes in diameter to reduce the loss of wind pressure along the range, bracket hanger from the mouth connection more than 200mm, the duct joints sealed with adhesive tape
 - The duct must be firm and must be installed on the same day, and if the air outlet is not installed immediately after the installation of the duct, it should be sealed with adhesive tape. Dustproof treatment
4. Unit and parts installation
 - Ensure that the strength of the bolt installation is 3 times the weight of the unit, and if it is installed on a hollow slab wall, it should be equipped with a base to transfer the weight to the ground, and the body of the unit should be level with a deviation of less than 2mm
 - During the renovation period, the new air machine should not run, so as not to suck the indoor dust into the machine
 - There should be no obstacle in the tuyere, so as not to block the wind, and there is enough space for maintenance in the direction of opening the door
 - After installation, the damaged walls and ceilings are repaired to make them as beautiful as new in the direction of opening the door

Test Run

- After installation, check the controller settings according to the "Operation" guidance stipulated in this manual
- Focus on the particle purification effect, temperature and carbon dioxide concentration
- Take out the electrostatic cleaner for inspection after one day of operation. If the cleaner collected no dust, there must be a fault. Please inform BROAD immediately

INSTALLATION ILLUSTRATION

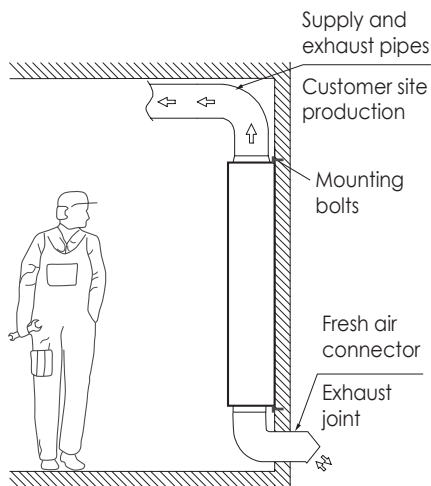
Ceiling installation



Precautions

- Determine the installation method and height in advance to ensure that the installation intensity of the 4 boom can withstand three times the weight of the unit, and the fuselage must be vertical or horizontal (deviation <math>< 2\text{mm}</math>)
- According to the design of the fresh air, the duct arrangement should be free from obstacles, so that it is easy to take over
- The connection between the tuyere and the duct should be flat, tight, and free of slippage, and should be firmly glued with sealant to avoid slack and air leakage
- After the decoration is completed, a machine inspection port should be reserved, and the size of the inspection port should be $\geq 1300 \times 650\text{mm}$

Wall-mounted installation



Precautions

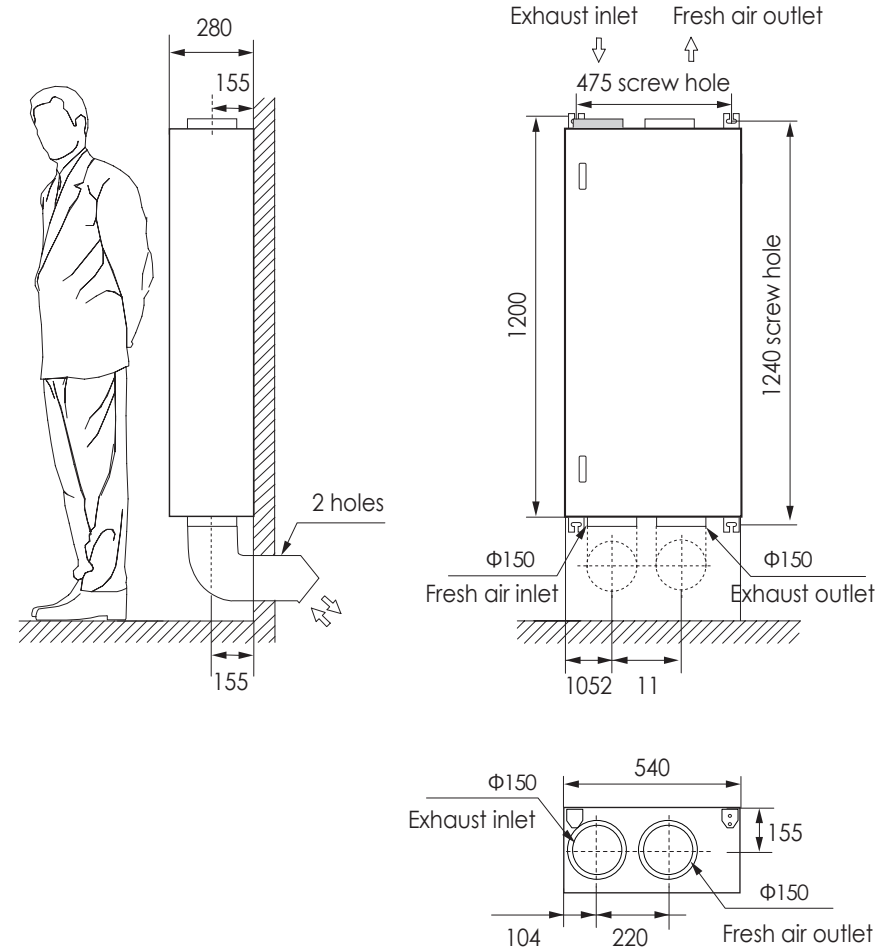
- Ensure that the bolt installation strength can withstand 3 times the weight of the unit. If it is installed on a hollow board wall, it should be equipped with a base to transmit the weight to the ground. The fuselage must be level, and the deviation should be less than 2mm
- According to the design of the fresh air, the duct arrangement should be free from obstacles, so that it is easy to take over
- The connection between the tuyere and the duct should be flat, tight, and free of slippage, and should be firmly glued with sealant to avoid slack and air leakage
- The maintenance space should be reserved ≥ 1 meter in front of the machine

Special Note

- The room maintains a slight positive pressure and is ventilated by a fresh fan
- The fresh air and exhaust air pipes must prevent the infiltration of rainwater

INSTALLATION DIMENSIONS

(Unit: mm)



TROUBLESHOOTING

No.	Problem	Cause	Solution
1	The fan is making noise	1. The fan bearing or rotor is faulty 2. The wall surface is uneven	1. Examine and repair * 2. Fasten the bolts or smooth the wall surface *
2	There is no air coming out from the machine	1. The fan is faulty 2. The power plug is loose 3. Damaged of power cord	1. Examine and repair * 2. Reconnect the power 3. Replace the power cord*
3	The electrostatic cleaner does not absorb dust	1. The tungsten filament is broken 2. The electrode grid is bent 3. Power failure	Repair or replace the electrostatic cleaner *
4	Bad dust absorption performance	The electrostatic cleaner or the power connection is faulty	Contact BROAD for examination and repair *
5	Poor purification efficiency	1. There is a possible air leakage in the HEPA filter 2. The room positive pressure is not high enough	1. Examine and reinstall the HEPA filter 2. Make sure the rooms are in positive pressure
6	The electrostatic cleaner does not fit	The electrostatic cleaner is installed backward	Insert in the direction of the indicator prompt
7	The cleaning prompt appears repeatedly	The default "cleaning cycle" is too short	Extend the "cleaning cycle" in setting
8	There is a cracking sound	1. The electrostatic cleaner is not dried thoroughly 2. The electrostatic cleaner has collected too much dust	1. Remove it and blow dry 2. Clean it
9	The heat exchange effect is not obvious	1. The heat exchanger has collected too much dust 2. Small indoor and outdoor temperature difference	1. Clean the heat exchanger 2. This is a normal condition
10	The fresh air volume is insufficient	1. Wrong frequency setting 2. The air inlet/outlet is blocked 3. The coarse filter has collected too much dust 4. The HEPA filter has collected too much dust	1. Reset 2. Clear the inlet/outlet immediately 3. Clean or replace the coarse filter immediately 4. Replace the HEPA filter with a new one

Note: for items marked with *, seek help from BROAD or a BROAD designated service provider immediately

SERVICE POLICY

1. Service Classification

- ① Equipment maintenance and repair
- ② Coarse filter and electrostatic cleaner cleaning
- ③ HEPA filter replacement

2. Warranty (only for service stipulated in ①)

- 2-year warranty from the date of purchase
- For problems caused by design, manufacturing or factory transportation, free repair or replacement shall be provided. Repair work will be charged for other causes
- Damages caused by natural disasters, substandard power or human error will not covered by the free warranty
- Free warranty does not include filter cleaning and replacement
- Users can also sign a long-term warranty agreement with BROAD

3. Coarse filter and electrostatic cleaner cleaning

- BROAD Customer Center can provide paid single or annual service
- See page 9-10 for self-maintenance method

4. HEPA filter replacement

Can be purchased at BROAD shops or through the service hotline

5. Service Standards

Item	Standard
Regular maintenance and accessory replacement	Strictly follow maintenance requirements
Maintenance Quality	Ensures the long-term air quality of each unit meets the standard of Indoor Air Quality Checklist

6. Service Discipline

It is strictly prohibited for BROAD service engineer to privately collect service fee without permission, or sell other manufacturers' products for profit. Otherwise, the case will be filed as suspected corruption or fraud for further investigation

7. Paid Service

- ① Annual Service Agreement
It is recommended that the user sign an annual service agreement with BROAD (or a BROAD authorized service provider), with the charge be determined by the size, function, number of units and service years of the machine, plus the travel expenses of service personnel. The annual service agreement shall be in standard format
- ② Single service
 - The user can contact BROAD for a single service agreement to purchase spare parts
 - If the user decides to do maintenance work by themselves and encounters a major failure of the unit, the user can ask for help from BROAD or a BROAD designated service provider. The maintenance fee will be determined by the parts price and maintenance hours, plus the travel expenses of service personnel

8. Service Hotline

Service Hotline 24/7:
400-883-9333
E-mail: bfw@broad.net



Standard: GB/T21087-2020



BROAD CLEAN AIR TECHNOLOGY
远大洁净空气科技有限公司

BROAD Town, Changsha, PRC

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Fax: 86-731-84086387

Web: www.broadair.net



100g

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