

BROAD
Combats
POLLUTION



BROAD CLEAN AIR

BROAD PURIFIER

TC4000/TC5000

OPERATION AND MAINTENANCE MANUAL

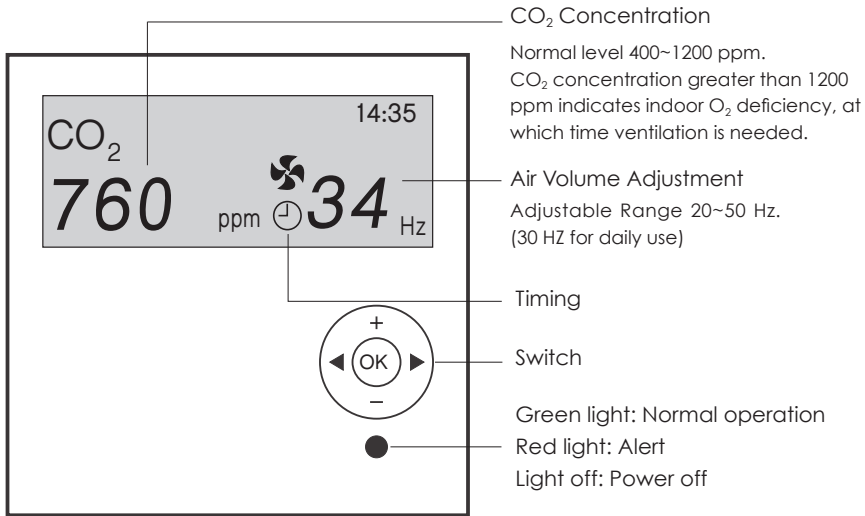


400-677-6666

2-YEAR WARRANTY

2020 09 English

GENERAL INFORMATION



Power On: Press OK for 2 seconds

Power Off: Press OK for another 2 seconds

Air Volume Adjustment: Press + or -

Other Functions

- Screen Switch: Press ► for 3 seconds (No operation in 2 minutes brings back the main interface)
- Selection: Press ► or ◀
- Value Reset: Press + or -, and then OK to confirm

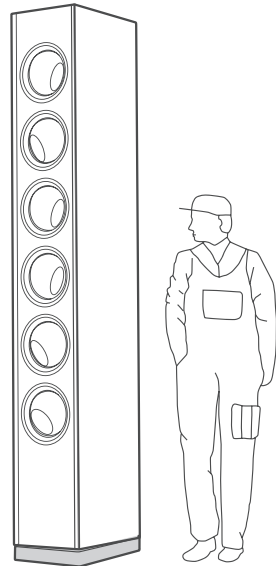
How to achieve the highest level of purification?

Non-stop operation 24 hrs /365 days

- Designed life span of 20 years (some electrical components have a shorter life but are easily replaced)
- This purifier has a low power consumption, see "Technical Parameters" for exact power consumption

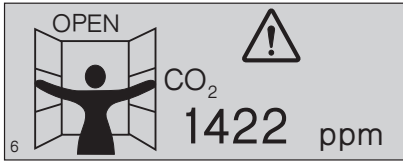
Note

- The purifier is not water-proof
- Keep the purifier away bathrooms and sources of steam
- Do not block the air outlet and inlet



ALERTS AND PROMPTS

Indoor O₂ Deficiency

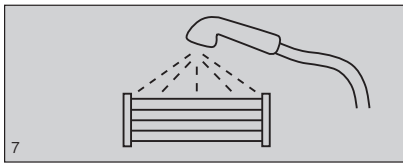


Please open the window or turn on the fan for ventilation immediately

- The purifier will alert if the CO₂ concentration continuously exceeds the upper limit for 30 minutes, or exceeds 1800 ppm for 5 minutes
- Press any key to clear the alert

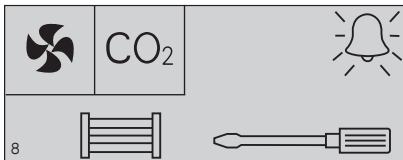
Cleaning Prompt Appears

Clean the electrostatic cleaner asap



- If you open the machine door or power off after the prompt appears, regardless whether the electrostatic cleaner has been cleaned or not, the system will regard it as having been cleaned, and the cleaning cycle will be reset
- Press any key to clear the prompt

Component Fault Alert



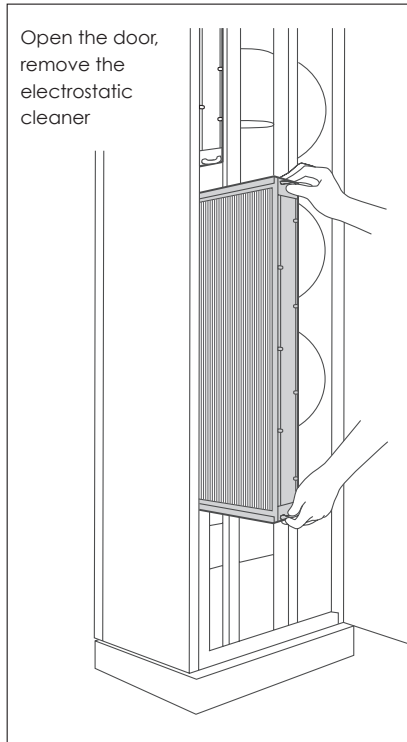
- For CO₂ sensor /fan/ electrostatic cleaner fault, the faulty component icon will flash
- Seek help from BROAD or BROAD designated service provider immediately

Note: The fault interface will be displayed automatically when there's fault, and it won't return to the main interface until any operation is done. If the fault is not eliminated, the fault interface will be displayed again after 2 minutes. The cleaning prompt will disappear automatically after the purifier is powered off

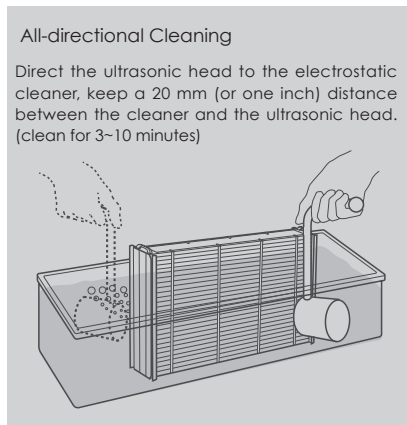
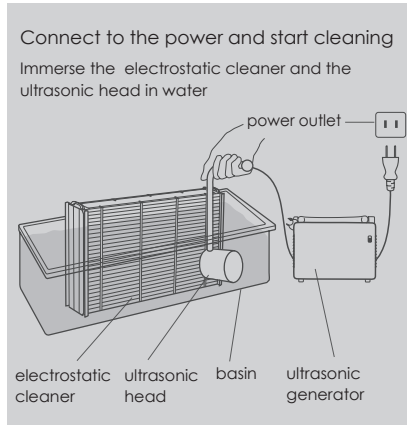
ELECTROSTATIC CLEANER CLEANING

To keep the highest purification efficiency, clean the electrostatic cleaner every month. The electrostatic cleaner must be cleaned if it has collected over 1.5 mm of dust.

Remove the electrostatic cleaner

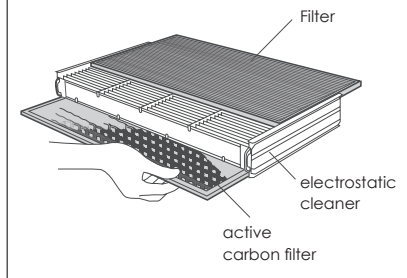


Cleaning Method 1:
Ultrasonic Cleaning



Remove the filter and the active carbon sheet

Note that the active carbon sheet should not come into contact with water



When the cleaning is done, power off

Rinse the electrostatic cleaner with clean water (cool or warm), then blow-dry (As shown in the right page)

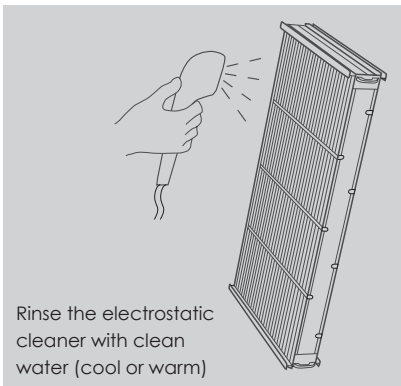
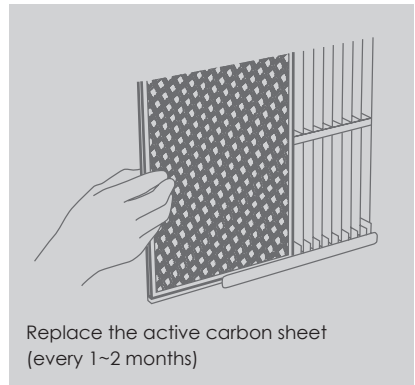
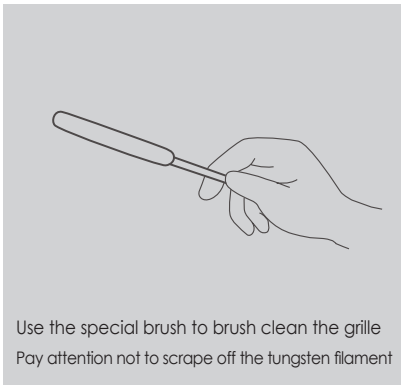
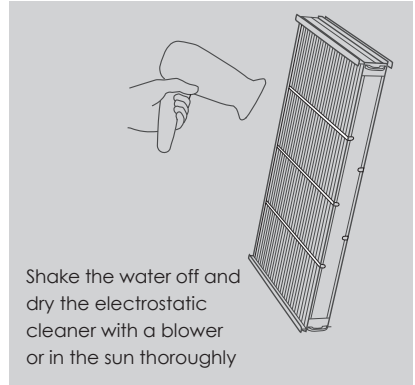
Note:

Detergent can be used if the electrostatic cleaner is heavily soiled.

ELECTROSTATIC CLEANER CLEANING



Cleaning Method 2: Detergent Cleaning

Blow Dry the Electrostatic Cleaner



PARAMETER SETTING


Setting of Timing




Press  or  for 3 seconds to enter the setting interface

| | | | | | | | |
|---|-----------|---|---|---|---|---|---|
| 1 | ON 07:30 | | | | | | |
| | OFF 18:00 | | | | | | |
| 2 | 1 | 2 | 3 | 4 | 5 | 6 | 0 |

- ON/ OFF refers to the automatic ON and OFF time for the purifier. The numbers below represent Monday to Sunday, the background of which would turn black if the corresponding day is chosen
- Cancellation of timing: Set the ON/OFF to "- ", which means no day of the whole week is chosen

Time Calibration

| | | |
|---|-------|--|
| 3 | 2020 | 14:35 |
| | 08.16 |  0000 |

- Press  or  to select the part you would like to adjust. Press +/- to modify, and OK to confirm
-  The password is set by a specially assigned person. After entering the password, the dedicated interface will be entered

TROUBLESHOOTING

| No. | Problem | Cause & Solution |
|-----|--|--|
| 1 | The fan is making noise | If there is a metal friction sound or other abnormal sound, it indicates the fan bearing is faulty * |
| 2 | The fan is not working | 1. The door is not closed 2. The power plug is loose 3. The fan is faulty * |
| 3 | The screen interface is garbled | If cutting the power and powering up again does not restore a normal screen, there must be a fault * |
| 4 | The purifier does not absorb dust (there is an alert for faulty electrostatic cleaner) | 1. Mosquitoes or other substances entered the electrode grid, which can be cleaned 2. The tungsten filament is broken 3. The electrode grid is bent 4. Power failure * |
| 5 | Bad dust absorption performance | If the dust absorption performance is poor after 5 day's operation, operate according to No. 4 |
| 6 | Poor indoor purification efficiency | Check if the electrostatic cleaner is covered with dust. If the duct thickness exceeds 1.5mm (0.06 inches), clean it immediately |
| 7 | The electrostatic cleaner does not fit | The electrostatic cleaner is backward, the arrow direction should be inward |
| 8 | The cleaning prompt appears repeatedly | If the cleaning prompt appears repeatedly while the electrostatic cleaner is not covered with dust, extend the "cleaning cycle" in setting (note: the electrostatic cleaner will be regarded as having been cleaned if you open the door or power off after the prompt appears) |
| 9 | There is a cracking sound | 1. If the sound occurs the minute the electrostatic cleaner is reinstalled, it is probably because the electrostatic is not dried thoroughly. Remove it and blow dry 2. If the sound occurs after the purifier has operated for a while, the electrostatic cleaner might have collected too much dust. Clean it 3. The tungsten filament is broken or bent, cut off the filament or replace the cleaner 4. The electrode grid is bent, try to bend it back into shape |

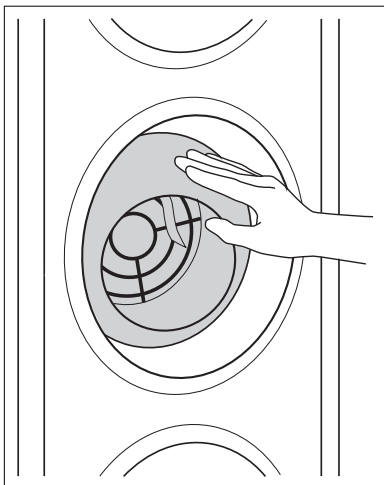
Note: for items marked with *, seek help from BROAD or BROAD designated service provider immediately

AIR OUTLET ADJUSTMENT AND PRARAMETER

Air outlet adjustment

Direction of each air outlet can be adjusted manually according to the requirement of indoor air circulation

- Adjustment range: within 45 ° in any direction
- Air supply distance: 25m (operation in 50Hz)
- Adjust the outlet direction as below:



Technical Parameter

| Model | TC4000 | TC5000 |
|---------------------|------------------------|---------|
| Purified Air Volume | m ³ /h 4000 | 5000 |
| Applicable Area | m ² 90~180 | 110~220 |
| Power Consumption | W 80~360 | 110~500 |
| Weight | kg 144 | 176 |

INSTALLATION

Installation Process

Installation Location
Determine the installation location according to the room layout and indoor air circulation requirements, and stake out (bolt fixing holes)



Unit installation
Fix the unit on the ground with expansion bolts according to the installation position



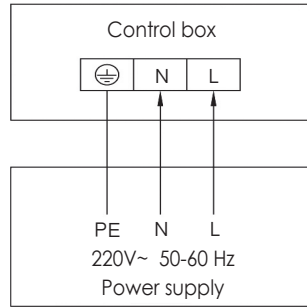
Power connection
Connect the power cable to the terminal board of the unit and fix it



Commissioning

- After installation, check the parameter settings one by one as per this manual
- Check whether the noise from the fan and CO₂ concentration are normal
- After one-day running, take out the electrostatic cleaner and check whether there is dust. If no, there must be problem, please inform BROAD to deal with it

Power Diagram



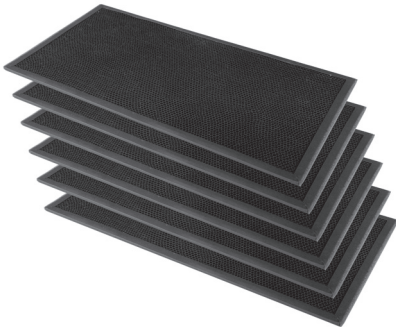
ACCESSORIES AND WARRANTY

Standard Accessories

- TC4000
 - 4 expansion bolts (M12 * 100)
 - 9 activated carbon filters
 - 18 dust brushes
- TC5000
 - 4 expansion bolts (M12 * 100)
 - 12 activated carbon filters
 - 24 duster brushes

Consumable Material: active carbon sheet

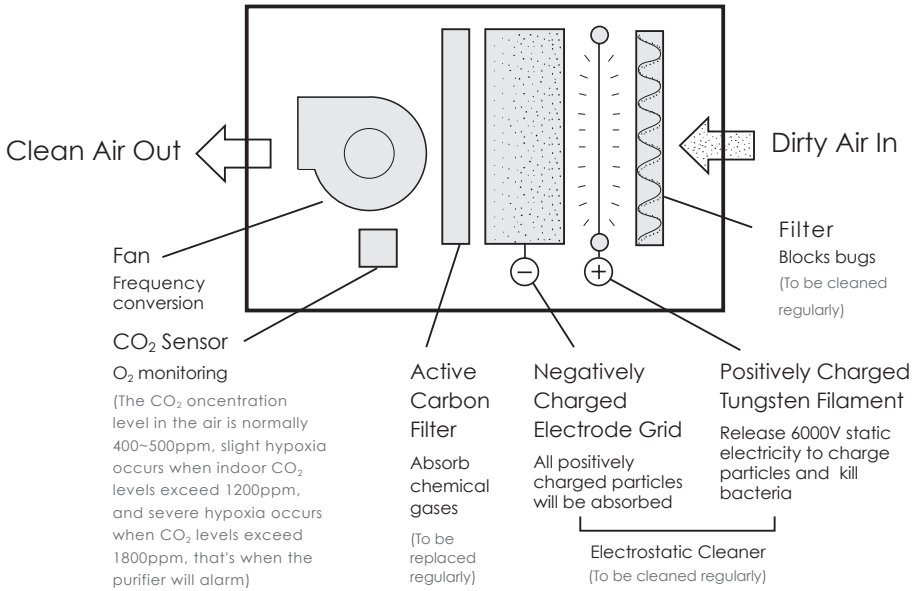
The factory provided active carbon sheets can only last a few months, and can be purchased at any BROAD exclusive store or on-line shop, at a low price



Warranty

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.

FUNCTIONS



Electrostatic Dust Cleaning

The tungsten filament of the electrostatic cleaner continuously releases about 6000V high-voltage static electricity, and charges all particles with a positive charge, which will then be absorbed by a negatively charged electrode grid. Electrostatic cleaner can absorb infinitely small particles (10,000 times smaller than PM2.5)

Electrostatic Bacteria Killing

Tungsten filaments release 6000V static electricity to kill bacteria and virus instantaneously, and prevent the spreading of various airborne diseases

Formaldehyde Elimination

The active carbon sheet absorbs formaldehyde, benzene, nicotine and other types of VOC

Oxygen Deficiency Monitoring

The CO₂ sensor constantly monitors indoor CO₂ concentration levels to alert customers if there is indoor oxygen deficiency

BROAD Electrostatic Air Purifier has obtained domestic and international quality and safety certifications



201819000873



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