

**BROAD**  
Combats  
**POLLUTION**



BROAD CLEAN AIR

# BROAD ELECTROSTATIC PURIFIER

TA400、TB400、TA1000、TA2000

## OPERATION AND MAINTENANCE MANUAL

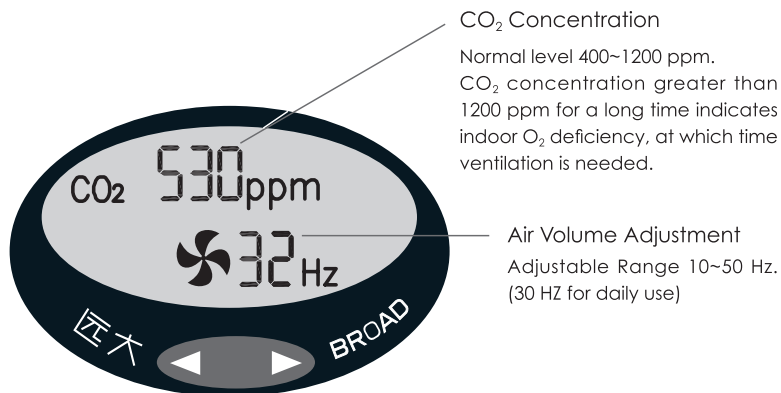


400-677-6666

2-YEAR WARRANTY

2020 07 English

## GENERAL INFORMATION



### CO<sub>2</sub> Concentration

Normal level 400~1200 ppm.  
CO<sub>2</sub> concentration greater than 1200 ppm for a long time indicates indoor O<sub>2</sub> deficiency, at which time ventilation is needed.

### Air Volume Adjustment

Adjustable Range 10~50 Hz.  
(30 Hz for daily use)

On      ▷ Press

Standby      ◁ Press till frequency drops below 10Hz

Off              Unplug

How to reduce noise?

Press ◁ to decrease air volume

How to speed up purification?

Press ▷ to increase air volume

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

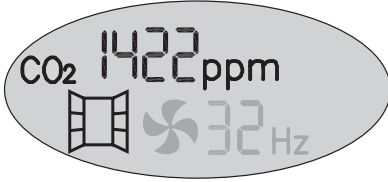
### Note

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

## ALERTS AND PROMPTS

### Indoor O<sub>2</sub> Deficiency

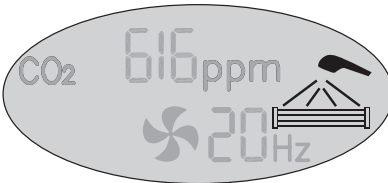
Please open the window or turn on the fan for ventilation immediately



- The purifier will alert if the CO<sub>2</sub> concentration continuously exceeds the upper limit for 30 minutes, or exceeds 1800 ppm for 5 minutes
- Press any key to clear the alert

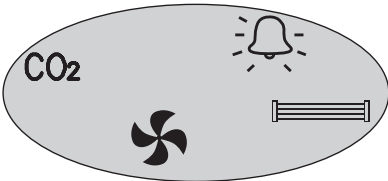
### Cleaning Tips

If the 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 Failure Alert

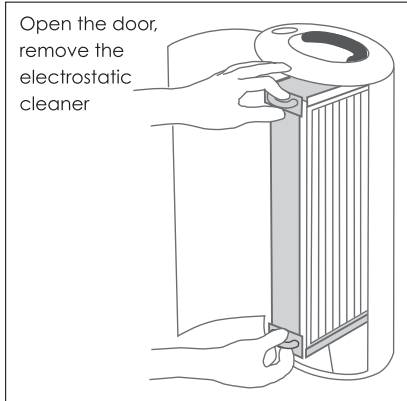


- For CO<sub>2</sub> sensor /fan/ electrostatic cleaner fault, the faulty component icon will flash
- Seek help from BROAD or BROAD designated service provider immediately

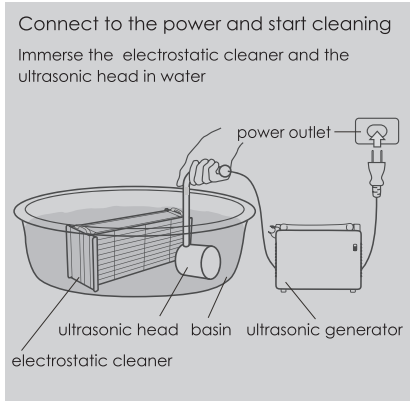
# CLEANING METHOD

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

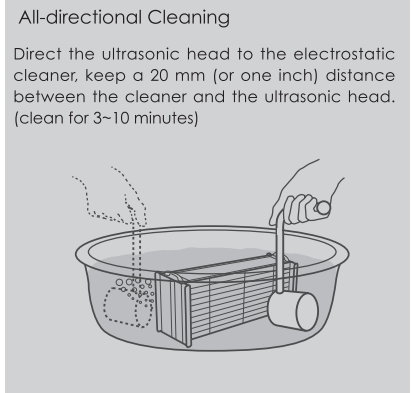
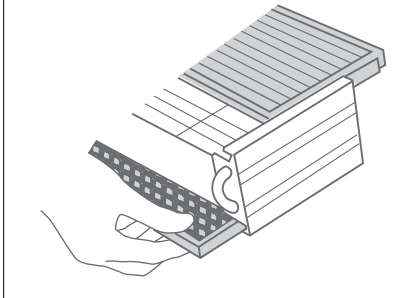


## Cleaning Method 1: Ultrasonic Cleaning



## Remove the filter and the active carbon sheet

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



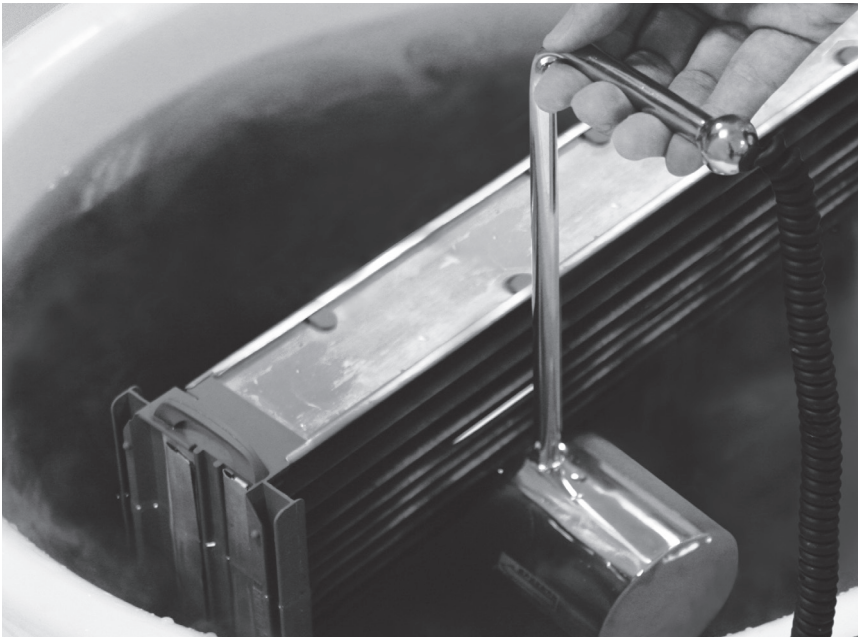
When the cleaning is done, power off

Rinse the electrostatic cleaner with clean water (cool or warm), then blow-dry (refer page 5 for details)

Note:

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

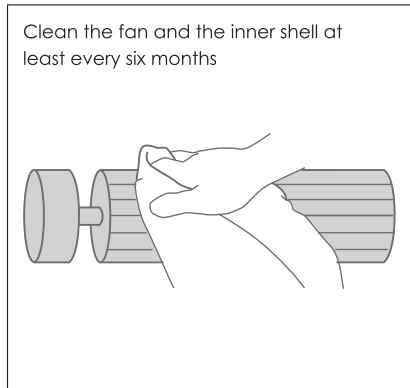
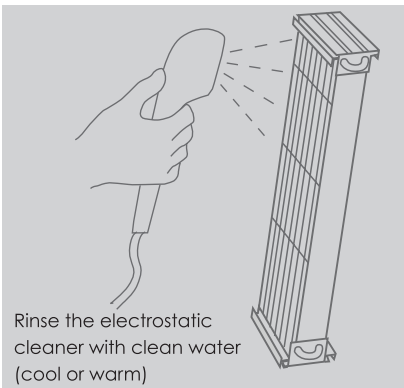
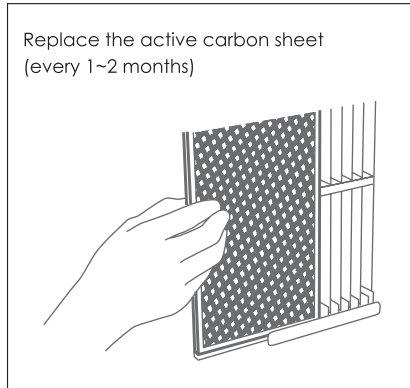
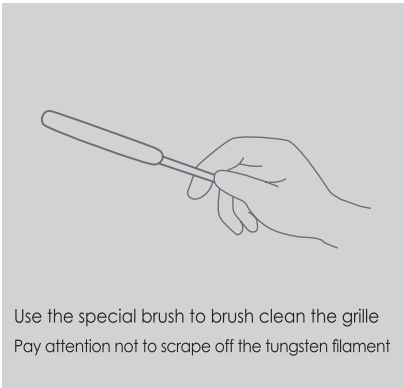
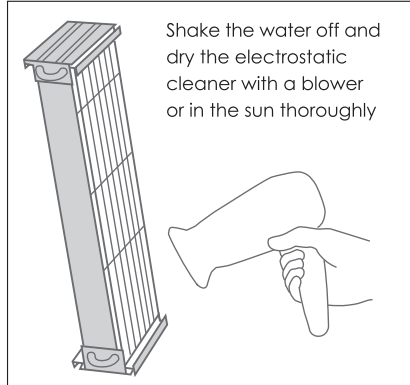
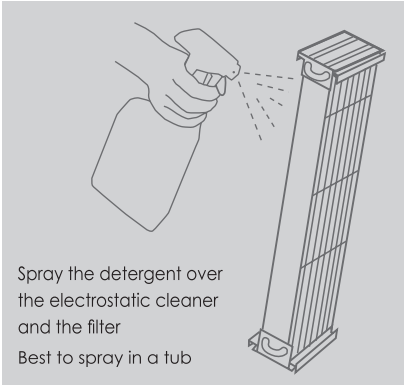
## CLEANING METHOD



## CLEANING METHOD

### Cleaning Method 2: Detergent Cleaning

### Blow Dry the Electrostatic Cleaner

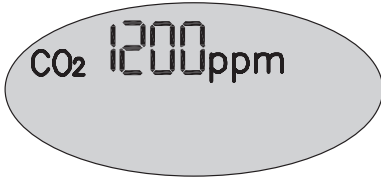





## CLEANING METHOD



# PARAMETER SETTING

## CO<sub>2</sub> Alert Value Setting



- Turn on the purifier, press  for 6 seconds to access the setting interface
- Press  and  to increase or decrease the value, press for 9 seconds to return to the operation interface

Recommended alert value:  
 Settable range: 800~2000 ppm  
 (ppm: parts per million)

1. For living and working areas: 1000 ppm
2. For public areas: 1200 ppm
3. For vehicles: 1400 ppm

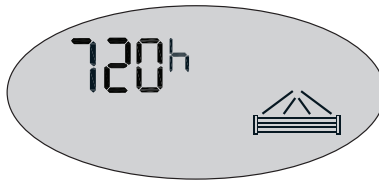
We inhale oxygen (O<sub>2</sub>) and exhale carbon dioxide (CO<sub>2</sub>) constantly. The carbon dioxide sensor can tell people whether there is oxygen deficiency in the room




The CO<sub>2</sub> concentration in an urban environment is around 350~700 ppm

- It is suitable for people to stay indoors if the room CO<sub>2</sub> concentration is lower than 800 ppm
- 800~1200 ppm is acceptable  
 >1200 ppm indicates minor oxygen deficiency which may cause health problems if staying indoors too long  
 >2400 ppm indicates severe oxygen deficiency which may cause serious health problems if staying indoors too long

## Cleaning Cycle Setting

The purpose of setting up a cleaning cycle is to remind users of regular cleaning



- Settable range: 168~1464 hrs  
 (Default: 720 hrs, i.e. 1 month)
- Turn on the purifier, press  for 6 seconds to access the setting interface
- Press  and  to increase or decrease the value, press for 9 seconds to return to the operation interface

## Technical Parameter

Model		TA400	TB400	TA1000	TA2000
Purified Air Flow	m <sup>3</sup> /h	400	400	1000	2000
Applicable Area	m <sup>2</sup>	15~30	15~30	25~50	40~80
Power Consumption	W	13~30	13~30	28~62	61~126
Weight	kg	9.4	9	24	55



## 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	<ol style="list-style-type: none"> <li>1. The door is not closed</li> <li>2. The power plug is loose</li> <li>3. The fan is faulty *</li> </ol>
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)	<ol style="list-style-type: none"> <li>1. Mosquitoes or other substances entered the electrode grid, which can be cleaned</li> <li>2. The tungsten filament is broken</li> <li>3. The electrode grid is bent</li> <li>4. Power failure *</li> </ol>
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	<ol style="list-style-type: none"> <li>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</li> <li>2. If the sound occurs after the purifier has operated for a while, the electrostatic cleaner might have collected too much dust. Clean it</li> <li>3. The tungsten filament is broken or bent, cut off the filament or replace the cleaner</li> <li>4. The electrode grid is bent, try to bend it back into shape</li> </ol>

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

# Accessories and Warranty

## Standard Accessories

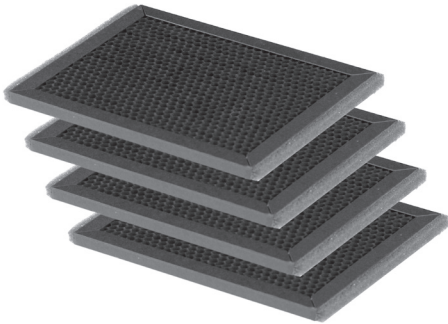
1. TA400- TB400: power adapter X1  
Input:100-240V~ 50-60 Hz  
Output: DC12 V
2. TA1000- TA2000: power cord X1
3. TA400- TB 400: feet bracing X1  
TA2000: chassis base X1
4. Active carbon sheet X 4, special brush X2,  
air flow vent strip X5

## Warranty

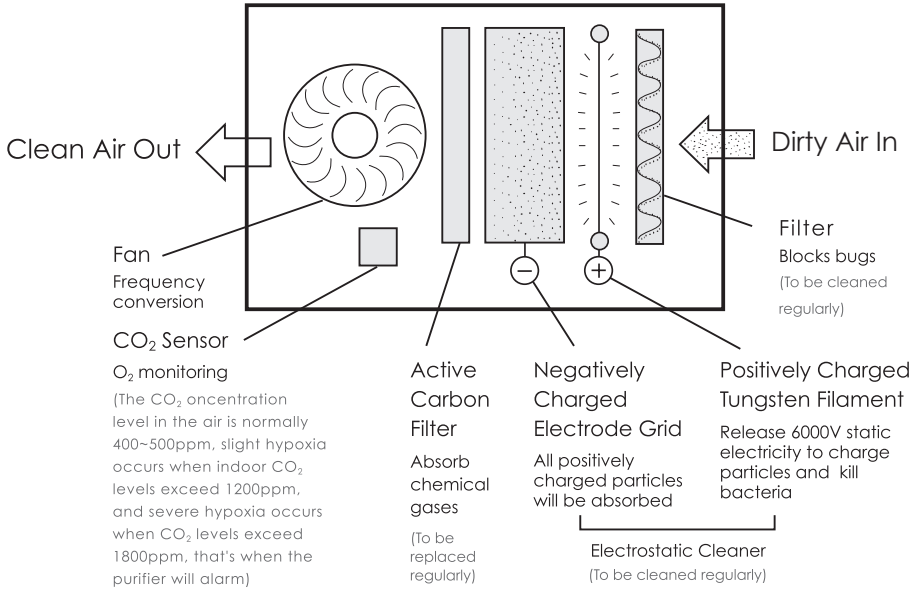
2-year warranty from the date of purchase.  
For problems caused by design, manufacturing  
or factory transportation, free repair or replacement  
shall be provided. Repair work will be charged  
for other causes.

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



# Functions



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



201819000873



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