



## **EAP400M and EAP400D Multistage Air Purifiers**

**HEPA, UV lamp, TiO<sub>2</sub> photo catalysis (PCO),  
plasma ionizer, activated carbon**

# **USER MANUAL**



**Thank you for choosing this innovative ElectriQ Air Purifier.**

**Please read this user manual before using the product and**

**keep it safe for future reference.**

**Visit our page [www.electriQ.co.uk](http://www.electriQ.co.uk) for our entire range of Intelligent Electricals**

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## **SAFETY INSTRUCTIONS**

### **Important!**

- Carefully read the instructions before operating the unit
- This appliance is for indoor use only.
- Rating: This unit must be only connected to a 220-240 V / 50 Hz earthed outlet.
- Installation must be in accordance with regulations of the country where the unit is used.
- If you are in any doubt about the suitability of your electrical supply have it checked and, if necessary, modified by a qualified electrician.
- This air purifier has been tested and is safe to use. However, as with any electrical appliance - use it with care.
- Disconnect the air purifier from socket when changing the filters or cleaning the unit
- Avoid touching any moving parts of the appliance.
- Never insert fingers, pencils or any other objects though the guard
- This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities. It is also not intended for use by those with a lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Do not leave children unsupervised with this device.
- Do not clean the unit by spraying it or immersing it in water. Use a damp cloth only
- Do not clean with strong chemical agents or other abrasive materials.
- Never connect the unit to an electrical outlet using an extension cord. If a power outlet is not available, one should be installed by a qualified electrician.
- Never operate this appliance if the cord or power supply is damaged. Ensure the power cord is not stretched or exposed to sharp object/edges.
- A damaged power supply should be replaced by the manufacturer. Never extend or attempt to change the power supply lead
- Any service other than regular cleaning or filter replacement should be performed by an authorized service representative. Failure to comply could result in a voided warranty.
- Do not use the appliance for any other purposes than its intended use.
- Avoid removing the power cord from socket while unit is still in operation. This could cause electrical damage.
- Never use the power supply as a switch to start and turn off the air purifier unit. Use the provided ON/OFF switch located on the control panel.
- Always place the unit on a dry and stable surface.
- The use of accessory attachments that have not been approved by the appliance manufacturer is not recommended, as this may result in fire, cause an electric shock and/or cause personal injury.
- Ensure hands are fully dried before plugging or unplugging the appliance.
- The appliance should not be installed in laundry or wet rooms.

### **Energy Saving and Unit Safety Protection Tips**

- Do not cover or restrict the airflow from the outlet or inlet grills.
- For maximum performance and safety the minimum distance from a wall or objects should be 20cm. Keep away from other electrical appliances.
- Keep the filters clean. Under normal conditions, filters should only need cleaning once every two weeks (approximately). Since the filters remove airborne particles, more frequent cleaning maybe necessary, depending on the air quality.

## Information on Indoor Pollutants:

**VOC (Volatile Organic Compound)** – VOC's come from motor vehicle exhausts, gasoline vapour, pollutants such as formaldehyde, ammonia and many other common and chemical solvents - like paints and glues or can be a by-product of mould growth. VOC's cause irritation to the eyes and or nose as well as causing headaches, nausea, and even potential damage to the central nervous system. Pressed wood furniture, newly decorated rooms, paint and cleaning solvents are common sources of VOC's.

**MOLD / FUNGUS** – These can affect our respiratory system and cause allergic reactions, like a runny nose, eye and throat irritation, headaches, fatigue and aggravation of asthma.

Other indoor pollutants include - bacteria, viruses, dust mites and pollen, etc.

**Emissions from electronic office equipment** – Many studies, including those from EPA and the University of California Berkeley, have reported that emissions from office equipment like, computers and printers etc. include VOC's, ultra-fine particles and ozone.

These emissions have been proven to have a negative effect on the health of many people.

## Using HEPA and Carbon Activated filters, Plasma Ionization, UV lights and TiO2 photocatalyst

An effective **HEPA** filter is absolutely necessary to remove particles, even at a microscopic level; it ensures that the particles are not spread. **Plasma Ioniser** will sterilise the air and reduce bacterial growth.

**UV light** dramatically improve Indoor Air Quality by destroying airborne bio-contaminants such as viruses and bacteria which may be a leading cause infections and discomfort. Ultraviolet air treatment systems have been used for more than 50 years in hospitals and various other healthcare industries but with the advent of small high-efficiency UV Lamps now the technology finds place in the domestic environment.

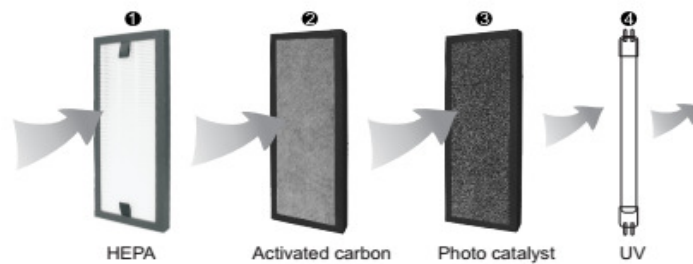
**Photocatalytic oxidation (PCO)** is achieved when you combine UV light rays with a **TiO2** (titanium oxide) coated filter. You ElectriQ air purifier features an advanced TiO2 filter. This process of photo catalytic oxidation creates hydroxyl radicals and super-oxide ions, which are highly reactive electrons which will react with other elements in the air such as bacteria and especially VOCs. Once bound together, the chemical reaction takes place between the super-charged particle and the pollutant, effectively burning ("oxidizing") the pollutant. This breaks the pollutant down into harmless carbon dioxide and water molecules, making the air even cleaner.

The **activated carbon** is a natural material biosynthesized from walnut shell, the adsorption area of activated carbon is very large up to 300,000 square meters. The activated carbon filter will absorb unpleasant odours and will help decomposing VOCs when combined with the TiO2 filter and UV light.



## Operation Instructions

### Before first use



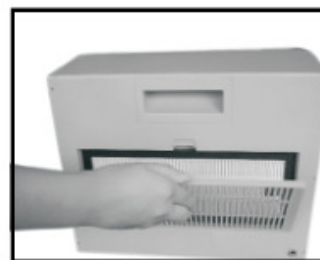
### Installing or replacing the Filters

**Note:** for convenience HEPA, Activated carbon and photocatalytic filter are combined in one easy replaceable filter. High performance filters are not washable, keep them dry at all times and vacuum regularly.)

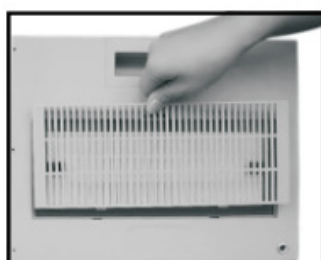
1. Unplug the unit from the socket.
2. Turn the unit around with front panel facing outward
3. Press filter housing release button to get access to filter chambers
4. To replace the filters just pull the filter pack out from the slot. When putting new filters in, ensure always the “front” side is facing outward.
5. The device should not be turned on until the sliding door is closed completely
6. Diagram of disassembly



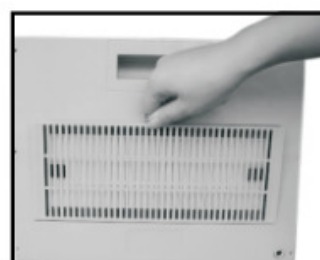
Press the release button



Remove old filter

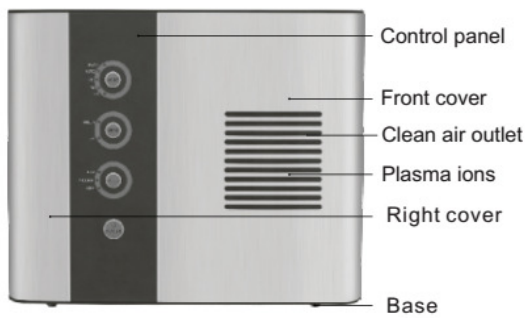


Place the filter pack in holder

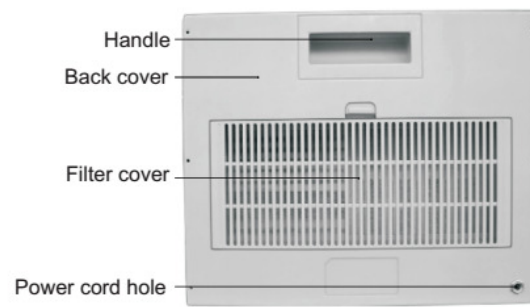


Secure filter cover

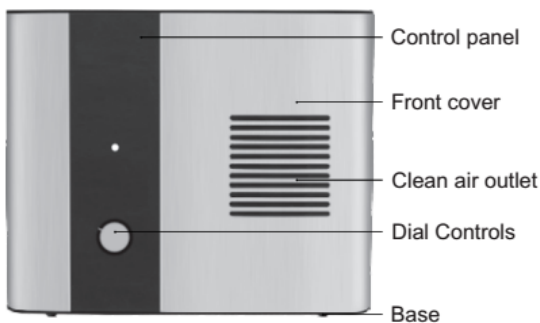
## Diagram of the Air Purifier



Front view EAP400D

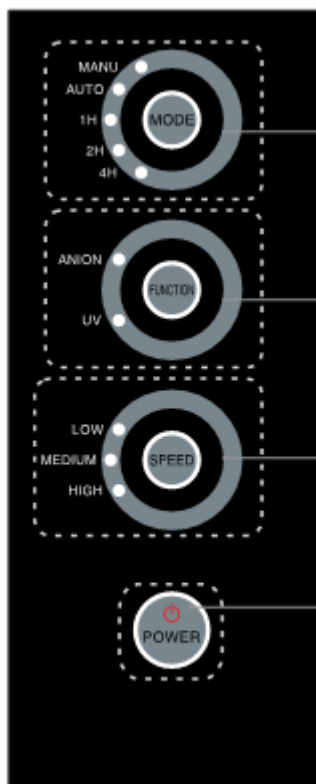


Back view



Front view EAP400M

## Controls and Settings



### EAP400D

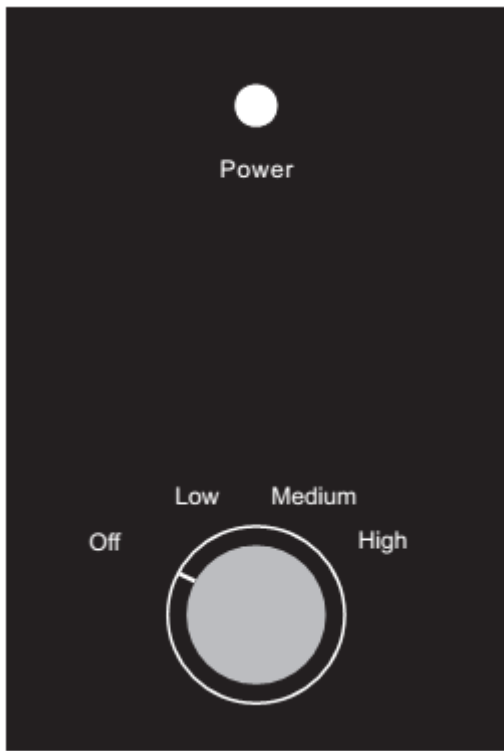
Switch between Manual (**Manu**) and Automatic (**Auto**) operation: 1 hour, 2 and 4 hours timer (**1H, 2H, 4H**)

**Function:** cycles between **Ioniser**, **UV** light or a combination of those

**Fan speed:** **Low / Medium / High**

**Power On / Off**

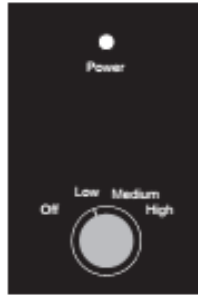
**Note:** **Automatic** function sets 20 minutes on / 40 minutes off operating cycle



## EAP400M

Dial turns the unit on and controls the fan speed only.

All the functions: HEPA Filtration, UV light, Ioniser, Activated Carbon filtration and Photo catalytic air cleaning are on.



Low



Medium



High

## APPENDIX



**Disposal:** Do not dispose this product as unsorted waste. Collection of such waste must be handled separately as special treatment is necessary.

Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to participating civic amenity sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please contact the local council for details of your local household waste recycling centres.

### Technical Data

Model	<b>EAP400M / EAP400D</b>		
Fan Speed	Low	Medium	High
Airflow (m <sup>3</sup> /hr)	100	140	180
Noise level (db)	25	32	38
Power rating (W)	18		
Ions	5x10 <sup>6</sup> ions/cm <sup>3</sup>		
Power cord length	1.8 meters		
Net Size (wxdxh)	30x13.3x24.5 cm		
Net Weight	2.3 kgs		
Voltage	220-240 V, 50 hz		
	<b>UV Lamp</b>		
Size	Power Rating	Wave Length	Life time
T5	6 W	254 nm	>6,000 hrs
	<b>HEPA Filter</b>		
Size (wxdxh)	Efficiency	Particle Size	Life Time
10.2x24.5x2.5cm	99.9%	≤0.0003 mm	about 1 year
	<b>Carbon Activated Filter</b>		
Size (wxdxh)	Material	Active Filter Absorption Surface	Life Time
10.6x24.5x0.6cm	Walnut Shell	300,000 m <sup>2</sup>	about 1 year



## **UK PRODUCT SUPPORT**

**[www.appliancesdirect.co.uk](http://www.appliancesdirect.co.uk)**

**Please, for your own convenience, make these simple checks before calling the service line.**

**If the unit still fails to operate call: 0871 620 1057 or complete the online form**

1. Is the unit plugged into the mains?
2. Is the power supply OK?
3. Have you cleaned or changed the filters if the unit lost efficiency?
4. Switch the unit off and wait three minutes to see if the issue is resolved. Restart the unit.

**Office hours: 9AM - 5PM Monday to Friday**

**[www.appliancesdirect.co.uk](http://www.appliancesdirect.co.uk)**

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