

AP-40

Operating instructions

Thank you for buying our air cleaner. Each system is carefully manufactured and subjected to a test run to ensure safety and reliability. Please read the instructions carefully before initial use and save them for future reference.



ETS Products Group

www.ets-products.com

Table of contents

| | |
|----------------------------------|----|
| Scope of delivery _____ | 03 |
| Specifications _____ | 03 |
| Areas of application _____ | 04 |
| Test reports _____ | 04 |
| System overview _____ | 05 |
| Installation instructions _____ | 06 |
| Commissioning _____ | 06 |
| Control and display fields _____ | 07 |
| Display operation _____ | 08 |
| Remote control _____ | 09 |
| Consumables display _____ | 10 |
| Maintenance and cleaning _____ | 10 |
| Safety instructions _____ | 13 |
| Contact _____ | 14 |

CE RoHS



TuyaSmart App Steuerung;
verfügbar im Apple App Store &
Google Play Store.

Scope of delivery

| | |
|-------------------------|---|
| Air cleaner: | 1 |
| Power cable: | 1 |
| Operating instructions: | 1 |
| Remote control: | 1 |

Specifications

| | |
|------------------------|--|
| Air volume: | 320 m ³ /h |
| Voltage/rated output*: | 100-127V~ 60Hz (52W) 220-240V~ 50Hz (46W) 220-240V~ 60Hz (60W) |
| Dimensions: | 620 mm x 391 mm x 227 mm |
| Net weight: | 8,5 kg |
| Plasma: | 5 x 10 pcs/sec |
| Noise level: | < 50dB |
| Ambient temperature: | 5 °C – 40 °C |
| Relative humidity: | < 80% |

* Voltage and frequency depend on the standard of the country or region in which the devices are used. Device data can be found on the product label. Use only devices that are intended for your region.

Areas of application

The system is equipped with a highly efficient filtration and cleaning system including a HEPA H13 activated carbon filter* with high iodine content, a TiO₂ photocatalyst filter, plasma, and a UV sterilization lamp with a 254-nm wavelength. It can effectively remove PM_{2.5}, formaldehyde, benzene, ammonia, TVOC, dioxide, sulfur, odors, passive smoke, dust, etc. from the air and eliminate bacteria and viruses.

ETS air cleaning systems are used to effectively remove toxins, viruses, bacteria, pathogens, dust, allergens, and odors from the ambient air.

Test reports

The system has been microbiologically tested. The test reports can be called up with the test number below on the Institute website (<http://english.gdim.cn>). We would also be happy to make them available to you if you need.

2020SP8365R04E PM2.5 /PM0.3 · 2020SP8365R02E FORMALDEHYDE

2020SP8365R01E VIRUS REMOVAL RATE

2020SP8365R03E BACTERIA REMOVAL RATE

System overview



- | | |
|----------------------|---------------------------|
| 1 Primary air outlet | 6 UV sterilization |
| 2 Front air outlet | 7 Timer display |
| 3 Housing | 8 Silent mode |
| 4 Operating display | 9 Air quality display |
| 5 Automatic/manual | 10 Connection (Back side) |

- Multi-colored LED displays for air quality
- Four-layer air filter and four-stage air cleaning
- High-precision particle sensors and organic gas sensors installed for real-time air quality testing
- Remote control, manual controls, and night mode
- Three cleaning modes:
 - 1) Manual 2) Auto 3) Night operation with cleaning and four fan levels
- Warning display for replacing the HEPA filter, activated carbon filter, and UV lamp

Installation instructions

Set up the device horizontally. Ensure that the rear housing cover is closed tightly. The air inlet, sensors, and air outlet must remain free and may not be covered.

Commissioning

The systems are tested and delivered ready to operate. Remove any packaging and protective film. Ensure that the mains voltage and frequency indicated on page 2 match your mains voltage and use the power cable to connect the system to power.

After the device is connected, there will be a beep indicating that the device is in standby mode. The standby indicator is on .

Control and display fields:

The control and display field is in the upper part of the front panel; the Total Volatile Organic Compounds display is on the bottom part.

Intelligent automatic mode (recommended use mode):

Press the On/off button , the primary air duct cover opens, and the  icon is displayed. The initial air cleaner default mode is intelligent automatic mode. The air cleaner adapts its cleaning performance automatically to the current air quality.



Manual cleaning level adjustment:

The air cleaning level can be set manually as needed (four levels available: very low, low, medium, and high). The air quality sensor functions the same regardless of the current cleaning level setting.

Control and display fields:

The air cleaner is equipped with an extremely sensitive air dust sensor. Within milliseconds, the sensor sends a command to the air cleaner, so that cleaning performance is adjusted to the current air quality in real time.

Except in sleep mode, the air quality display is lit up constantly to show the ambient air quality in real time.



The air quality display has three levels:



blau
gut



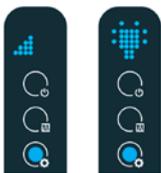
grün
mittel



rot
schlecht

Total Volatile Organic Compounds (TVOC) display

Display operation



UV sterilization and formaldehyde removal:

The device is equipped with special nanophotocatalytic material and UV sterilization devices. This function is not enabled at the first start-up. It can be manually enabled by touching the  icon. Touching it again disables the function.



Timer:

Pressing the timer button  allows selection of preset operating times (1 h, 4 h, 8 h, 12 h, and 24 h); it also allows enabling of standby mode. Press it repeatedly to achieve your desired setting



Sleep or night mode:

Switching on sleep mode  switches off all display lamps, closes the primary air duct cover, and shifts the cleaning circuit to the front air duct. This creates a quiet, comfortable environment to sleep in. Press  or airspeed setting  to exit sleep mode.



Child safety:

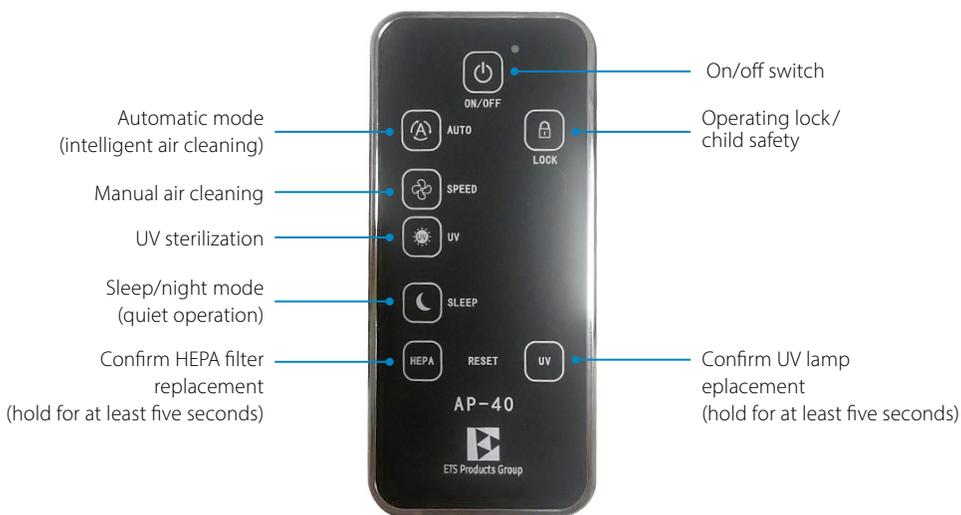
Pressing the  button locks the control panel. In this mode, the control panel cannot be used to change device settings. Press  again to unlock the control panel

Remote control

The remote control can be used to change system settings from within ten meters of the device front. It is recommended that the remote control not be used at angles greater than 45 degrees from the control panel.

Remote controls for the functions of the On/off switch, automatic mode, manual mode, and quick cleaning are analogous to direct system operation.

The remote control is also equipped with an operating lock/child safety system. If you press the lock button, the lock icon on the control panel lights up and remains lit. All touch buttons on the system control panel and all buttons on the remote control except for the lock button are locked. The lock can be removed by pressing the lock button on the remote control again. The remote control layout may deviate from the image below, but the functions are identical.



Consumables display

The device is equipped with an indicator that shows when the filter or the UV lamp must be replaced. Wear depends on operating time. If the service life of a filter or the UV lamp expires, the service life indicator of the filter or UV lamp flashes to remind the user to replace it. If the icon in question lights up constantly, the filter or UV lamp must be replaced. Otherwise the device's cleaning efficiency will be impaired. If your UV lamp needs to be replaced, contact our customer service.

Maintenance and cleaning

CAUTION! Perform only when the power supply has been disconnected!

1. Primary dust collector:

Use two hands to press the lock downward, open the rear cover, remove the dust filter, and clean out the surface dust with a vacuum cleaner. Replace the dust collector in the machine and continue to use it.

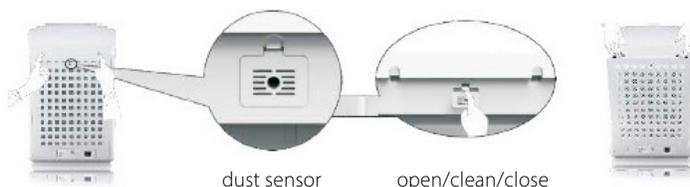
2. Photocatalytic nanofilters:

This filter can be cleaned regularly with a vacuum cleaner to remove surface dust. After cleaning, it can be used again.

3. Dust sensor dust cover:

Remove the dust sensor's dust cover, wipe it off carefully with a brush or dry cloth, and blow out the dust.

Caution: Use no liquids for cleaning!



4. HEPA filter:

The air cleaner records the usage time and issues a filter replacement reminder. If  flashes and beeps several times, the HEPA filter must be changed. Replace the filter immediately. Resetting the timer: After the filter has been replaced, press the "HEPA reset" button and hold it for five seconds. A long beep indicates that the timer has been reset.

5. UV lamp:

The air cleaner records the usage time during daily use and issues a replacement reminder. If  flashes and beeps several times, the UV lamp must be changed. Notify customer service.

Note:

The photocatalyst filter and the UV lamp are permanently installed and may be replaced by technical customer service personnel only.

HEPA filters and activated carbon filters cannot be cleaned. Do not replace these filters until the system indicates that doing so is necessary.

To clean the air, the system uses several filters and air cleaning systems simultaneously:

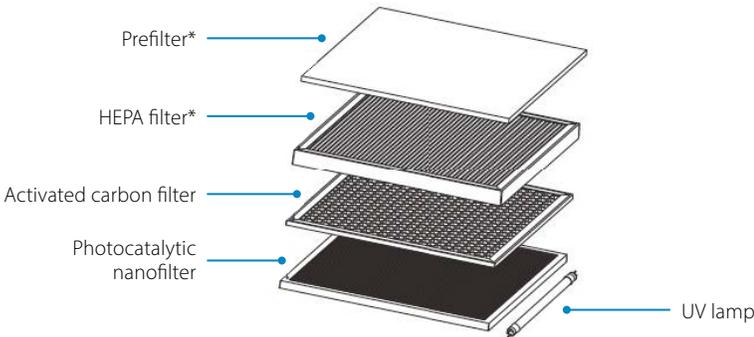
Prefilter: The prefilter filters out large particles such as human hair, animal hair, lint, etc.

HEPA filter: The HEPA filter removes smoke, dust, pollen, allergens, toxins, and fine particles larger than $0.3\ \mu\text{m}$.

Activated carbon filter: The activated carbon filter removes gases such as benzene and methanol, odors, etc.

Photocatalyst TiO filter and UV-C lamp: Eliminates viruses and bacteria in reactions with the titanium oxide coating in conjunction with UV-C light with a wavelength of $253.7\ \text{nm}$.

Plasma generator: At the plasma stage, air is routed between electrodes carrying high electrical voltage. Plasma neutralizes bacteria, viruses, and mold spores.



*HEPA filters and prefilters are a part of this device model.

Use only original replacement parts. They have been harmonized with device operation. Using third-party replacement parts can impair cleaning performance. Doing so invalidates the guarantee and the test results from the microbiological institute.

Safety instructions

- Before use, the rear housing cover must be completely closed.
- Do not open the rear cover while the device is in use.
- Before connecting the machine to the power source, ensure that the voltage indicated on the type plate is the same as the mains voltage in your region.
- Do not use the product if the plug, the power cable, or the housing is damaged.
- Keep the product away from children.
- Do not block air inlets and outlets.
- The product is suitable for dry rooms only.
- Clean the housing with a dry or slightly moist cloth. Never use alcohol-based cleaning agents to wipe off the housing!

Manufacturer

ETS Products Philippines Inc.
Berthaphil 4 Warehouse 2C
Civil Aviation Complex Clark
Clark Freeport, Pampanga 2023 Philippines
An ETS Products Group company

Contact

Phone +49 2204/967360
E-Mail europe@ets-products.com
Internet www.ets-products.com

You can find more information and technical data about air cleaning systems on our website.



ETS Products Group