AP-160

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.

Table of contents:

Scope of delivery:

Air cleaner - 1, Power cable - 1, Operating instructions - 1, Remote control - 1

Specifications:

Recommended surface	160 m²
Air volume	1300 m³/h
Mains voltage*	110 V / 230 V
Frequency	50 Hz / 60 Hz
Power	140 W
Dimensions (mm)	1216 x 600 x 345
Weight (kg)	54 kg
Ambient temperature	5 °C – 40 °C
Relative humidity	< 80 %

CE RoHS

* 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.

WiFi technology	IEEE 802.11 b/g/n, 2,4 GHz
WiFi security	WEP, WPA, WPA2
frequency	2,412 - 2,484 GHz
Transmission power	< 20 dBm
Transmission range	max. 50 m

Test reports:

The system has been microbiologically tested. The test reports can be called up with the test number below on the Institute website (www.sgs.com). We would also be happy to make them available to you if you need.

GZF20-017834-07 PM0.3 · GZF20-017834-08 CADR
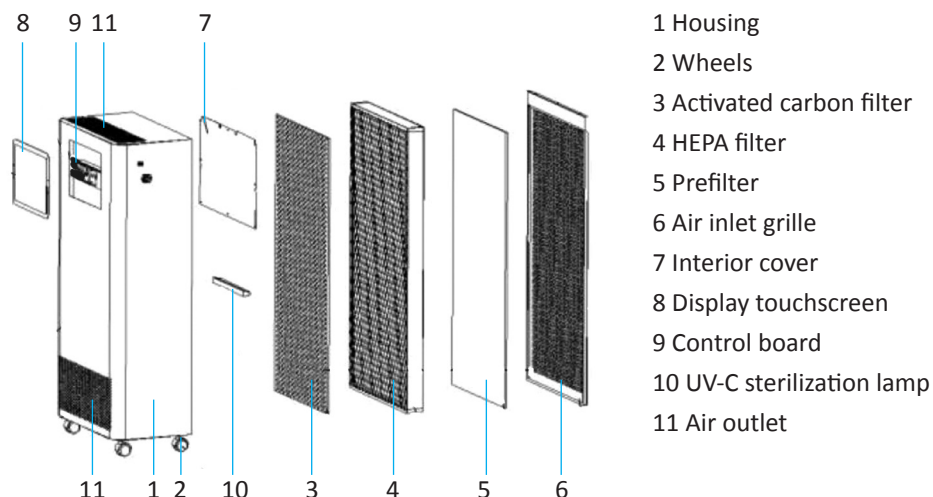GZF20-017834-09 BACTERIA REMOVAL RATE

SGS

Areas of application:

The system is equipped with a highly efficient filtration and cleaning system including a medical fiberglass HEPA filter (HEPA H14 nach EN 1822-1:2009), an activated carbon filter, a titanium oxide photocatalyst filter, a UV sterilization lamp with a 254-nm wavelength, and a plasma generator.

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

System overview:

1 Housing
2 Wheels
3 Activated carbon filter
4 HEPA filter
5 Prefilter
6 Air inlet grille
7 Interior cover
8 Display touchscreen
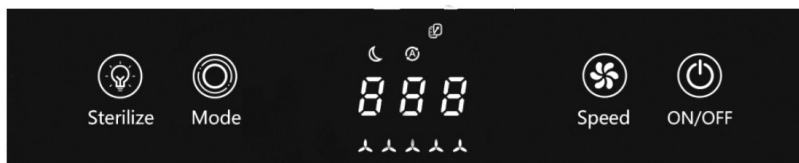9 Control board
10 UV-C sterilization lamp
11 Air outlet

Installation instructions:

The device must be freestanding during operation with space of at least 30 cm to the rear and to both sides. The rear air inlet, the lateral sensors, and the front and rear air outlets 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.

Control and display fields:

Numerical display:
PM2.5, time preset.

Status display:
Speed status display, air filter replacement display, sleep mode, automatic mode.

Function button:
As on a remote control.

Air filter replacement reminder:
Replacement reminder: The flashing 🔲 icon on the device indicates that the HEPA filter must be replaced.
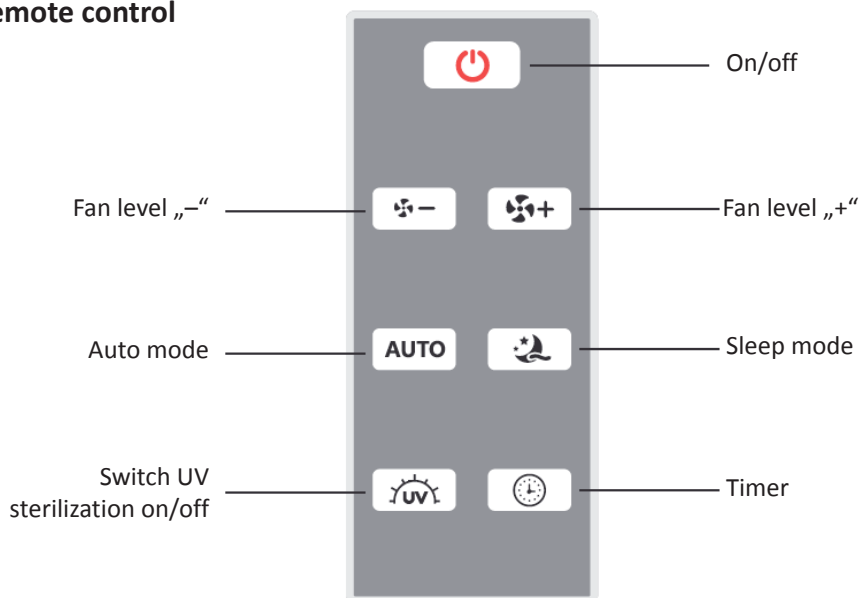
Reset after replacement:
After replacing the HEPA filter, press the On/off button and the speed button 🔲 simultaneously for five seconds. The machine emits a signal tone.
The 🔲 icon no longer flashes. This means that the filter has been replaced and the duration of filter use re-calculated.
When the device is first used, the 🔲 icon flashes as well.
Follow the same procedure as that for replacing the HEPA filter. The device begins re-calculating the duration of HEPA filter use.

Remote control

On/off

Fan level „–"
Fan level „+"

Auto mode
Sleep mode

Switch UV
sterilization on/off
Timer

On/off:
Press the On/off button to switch on the device.
By default, the device runs at Fan Level 1 in manual mode.

Auto mode:
In automatic mode, the fan level is controlled automatically according to air quality.

Timer:
Shut-off time can be planned. After the set time, the air cleaner automatically switches off.
The planned time can be between one and nine hours.

Sleep mode
The mode has minimum wind speed, and the light is switched off. Only the night mode icon
is lit up.

UV sterilization:
Press the UV sterilization button to set the air cleaner to sterilization mode. The sterilization
icon is lit up. Press the button again to leave this mode.

Note:
1. Press the On/off button. The air cleaner switches on.
2. Press the fan speed button. At Level 1, the fan begins to operate
3. As necessary, increase fan power by repeatedly pressing the fan speed button.
4. Press the sterilization button. The UV lamp switches on
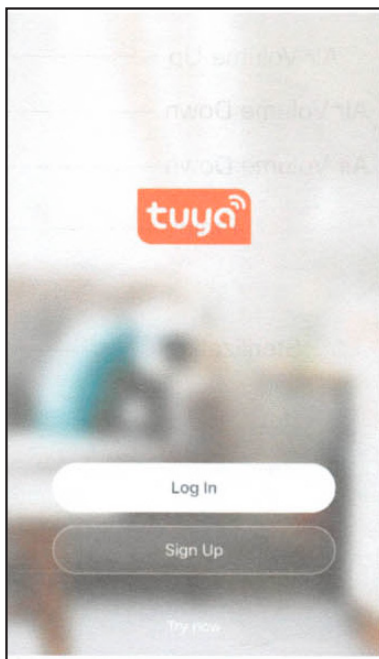5. Press the sterilization button again to switch off the UV lamp.
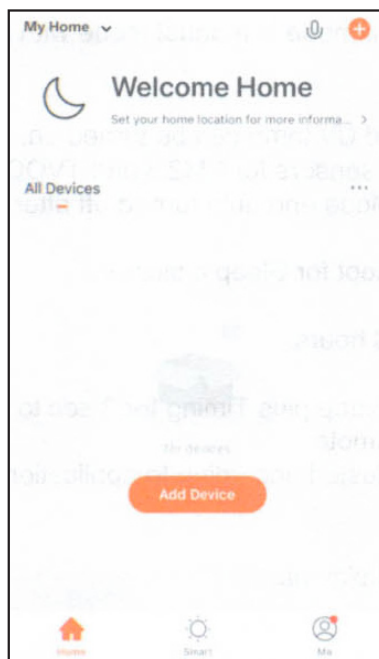
Tuya app control

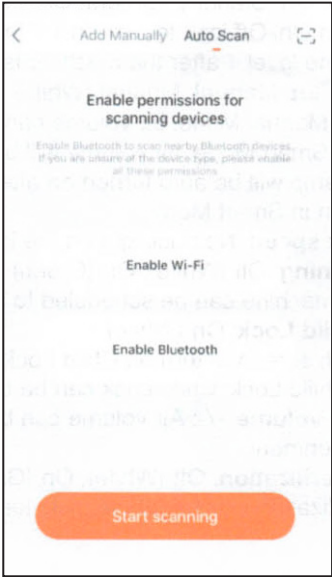1. Scan the QR code to download the Tuya app or search for it. When it has been downloaded, install it.

2. Start the Tuya app and click "Login" (click "Register" before your first use) or "Test now" (some app functions may not be available without login).
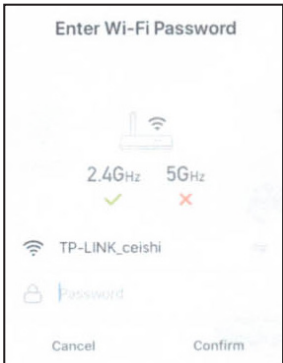
3. Connect the device. Click Switch on ⏻ and press (AI) for five seconds on the control panel until the light on the control panel light 📶 begins to flash. When the AI button is pressed for ten seconds, the system switches to connection mode so that it can connect to the Tuya app. The app automatically finds the system and asks for the WiFi connection data. After the network ID and password are entered into the app, the access data are transferred to the system. The system then has internet access and can be controlled from the internet. More operation instructions can be found in the Tuya app manual.

4. Click AUTO SCAN; start location services, WiFi (ensure that the cell phone and the device are using the same network), and Bluetooth; and click AUTO SCAN to search for available devices nearby.

5. Click "NEXT" when the app has located the available devices.

7. The app is automatically connected to the device. Connection can take 1-3 minutes. After the "Successfully added" notification, click "Finish". Click the device name ("Air cleaner", for example).
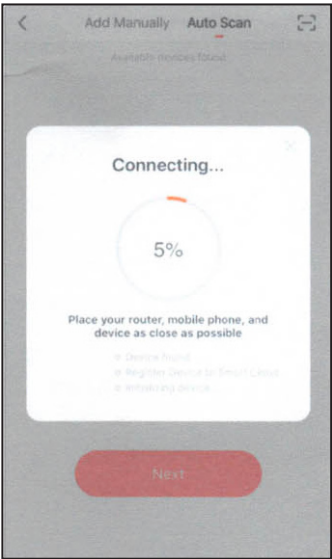
6. Enter the account and the WiFi password for the device (ensure that the device uses the same network as the cell phone with the same correct password). Then click "NEXT".
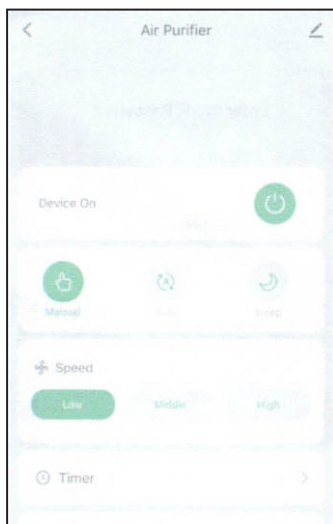
8. The app control interface now appears. Click the icons to control the device remotely. You can now control this device via Tuya.
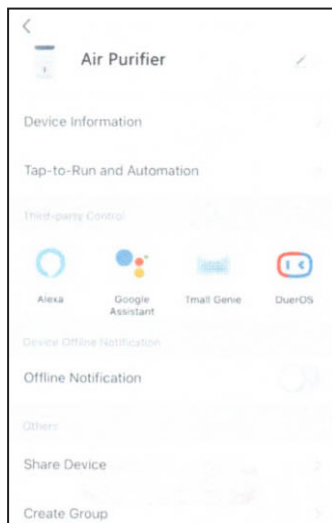

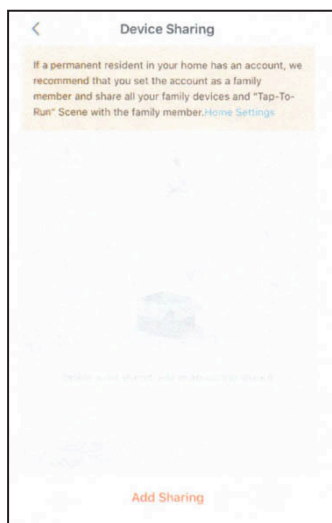## How other users control the device via app.

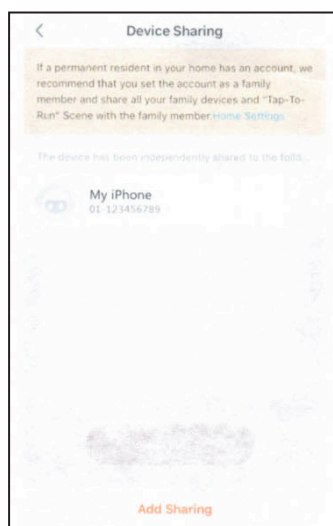1. In the settings interface, click ✎ next to the device name.

2. Click "Enable device" to enable the device.

3. Click "Enable a new user" to enter another user's account name.

4. If "Added successfully" is displayed, the other user can now control the device, too.

Maintenance and cleaning levels:

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 µm.

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

UV-C lamp: Eliminates viruses and bacteria with UV-C light with a wavelength of 253.7 nm.

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

➤ 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.

➤ Switch off the device and pull the power plug before working on the machine to avoid danger of electric shock.

For filter maintenance, remove the three cross-headed screws from the top of the rear cover and take out the filter. To re-insert the filter, use the same sequence as that described in the system overview

Note:

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

Prefilter
The prefilter must be checked regularly at intervals of no longer than four weeks and cleaned as necessary.
The prefilter can be either cleaned with a vacuum cleaner or rinsed out with running water. Insert the prefilter only after it has dried completely.

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

The average service life of the HEPA and activated carbon filter is about 6-12 months. Replacement frequency will depend on fan speed, degree of air contamination, and cumulative operating time.

Safety instructions:

- Before use, the housing cover must be completely closed.
- Do not open the 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!