雷神®
RAYSUN

Air Purifier Specification

Thank you for choosing this product.
Please read this specification carefully before using the prod uct.
Please keep this specification for future reference.

COVID-19 is still transmitted around the world,
Which is impacting on everyone’ s work and life.
We need a product that actively kills the corona viruses,
A product that protects us away from the danger.

Raysun has invented APJD (Atmosphere Plasma Jet Disinfection) technique, which ionizes the oxygen in the air into plasmas. The plasmas contain energies that can destroy the envelopes of the viruses, thus make the viruses die.

Raysun APJD products have been tested and approved by CMA (China Inspection Body and Laboratory Mandatory Approva) and approved by CNAS (China National Accreditation Service for Conformity Assessment, which is mutually recognized by IAF, ILAC, PAC, APLAC, etc.)
The product can kill the corona viruses in the air, at the rate of 99.99%.

Nowadays many Chinese hospitals and families are using Raysun APJD products, which protect the safe breathing of the family members (family members, children, elderly people)

- Believe that Raysun APJD can bring protection to you too.
- Raysun APJD products can only be used indoors. You can choose different products according to different indoor areas.
- The product has 2 sets of plasma generators, which are important components to kill the viruses.

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1 Important

Safety

Read this user manual carefully before you use the appliance, and
save it for future reference.

Danger

Do not let water or any other liquid or flammable detergent enter the appliance to avoid electric shock and/or a fire hazard.

- Do not clean the appliance with water, any other liquid, or a (flammable) detergent to avoid electric shock and/ or a fire hazard.
- Do not spray any flammable materials such as insecticides or fragrance around the appliance.

Warning

Check if the voltage indicated on the appliance corresponds to the local power voltage before you connect the appliance.

- If the power cord is damaged, you must have it replaced by our company, service center authorized by , or similarly qualified persons in order to avoid a hazard.
- Do not use the appliance if the plug, the power cord, or the appliance itself is damaged.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Child shall not play with the appliance. Cleaning and maintenance shall not be made by children without supervision.
- Do not spray any flammable materials such as insecticides or fragrance around the appliance
- Do not block the air inlet and outlet, e.g. by placing items on the air outlet or in front of the air inlet.
- Make sure that foreign objects do not fall into the appliance through the air outlet.

Caution

- This appliance is not a substitute for proper ventilation, regular vacuum cleaning, or use of an extractor hood or fan while cooking.
- If the power socket used to power the appliance has poor connections, the plug of the appliance becomes hot. Make sure that you plug the appliance into a properly connected power socket
- Always place and use the appliance on a dry, stable, level, and horizontal surface
- Leave at least 20cm free space behind and on both sides of the appliance and leave at least 30cm free space above the appliance.
- Do not place anything on top of the appliance.
- Do not sit or stand on the appliance. The appliance is equipped with omni wheels. Sitting or standing on the appliance may lead to potential injuiry.
- Do not place the appliance directly below an air conditioner to prevent condensation from dripping onto the appliance.
- Make sure all filters are properly installed before you switch on the appliance.
- Only use the original filters specially intended for this appliance. Do not use any other filters.
- Combustion of the filter may cause irreversible human hazard and/or jeopardize other lives. Do not use the filter as fuel or for similar purpose.
- Avoid knocking against the appliance (the air inlet and outlet in particular) with hard objects.
- Always lift or move the appliance by both handles at the sides of the appliance.
- Do not insert your fingers or objects into the air outlet or the air inlet to prevent physical injury or malfunctioning of the appliance.

- Do not use this appliance when you have used indoor smoke-type insect repellents or in places with oily residues, burning incense, or chemical fumes.
- Do not use the appliance near gas appliances, heating devices or fireplaces.
- Always unplug the appliance after use and before cleaning or carrying out other maintenance.
- Do not use the appliance in a room with major temperature changes, as this may cause condensation inside the appliance.
- To prevent interference, place the appliance at least 2m away from electrical appliances that use airborne radio waves such as TVs, radios, and radio-controlled clocks.
- The appliance is only intended for household use under normal operating conditions.
- Do not use the appliance in wet surroundings or in surroundings with high ambient temperatures, such as the bathroom, toilet, or kitchen.
- The appliance does not remove carbon monoxide (CO) or radon (Rn). It cannot be used as a safety device in case of accidents with combustion processes and hazardous chemical
- If you need to move the appliance, disconnect the appliance from the power supply first. The appliance is equipped with omni wheels and is easy to move.
- When moving the appliance, do it slowly and do not push it rapidly.
- Do not move the appliance by pulling its power cord.

空气从左右两侧进入，等离子体发生器产生正负离子，通过风机产生的空气动流将正负离子喷射进入空气。

Electrically shocking the viruses

The function of excited plasma groups electrically shocking the viruses in serial.
More than 20 patented technologies APJD nonequilibrium plasmas excite high-density particles, which contain eV energies, are jetted into the air within 10-meter distance, electrically shock the viruses and break the envelopes, to kill the viruses.

Hitting the viruses

The function of excited plasma groups breaking and killing the viruses at high speed.
Electrically charged particles hit the viruses with a speed of 2000 meters per second. The images of virus particles, which have been hit by the plasmas, all present a state of heavy damage. This is caused by the effects of etching and breaking of electrons and particles with high kinetic energies.

Control panel

This sign shows to open the two sets of plasma generators. This machine has the functions of fast and efficiently killing the viruses and bacteria in the air, man-machine co-existence, real-time disinfection, blocking the transmission of aerosols, preventing the cross-infection between medical workers and patients.

: On/Off	: Speed 1/ speed 2/speed 3/auto speed
: Child lock	: Plasma
: Sleep	: Filter reset/Temperature
: Timer	: Pre-filter cleaning reminder

3 Getting started

Install filters

Remove all packaging of the filters before using the appliance. Unpack them and place them into the appliance described as follows:

Note

- There is one set of filters on each side of the appliance. Each side is equipped with one pre-filter and one air purification filter.
- Make sure that you place the air purification filter in the appliance first and then the pre-filter.
- Make sure that the side with the tag is pointing towards you.

1 Remove all packaging materials of the air purification filters.

2 Pull the top part of the side panel to remove it from the appliance.

3 Press the two clips down and pull the pre-filter towards you.

4 Put the unpacked air purification filter back into the appliance.

5 Put the pre-filter back into the appliance.

Note

- Make sure that the side with the two clips is pointing towards you, and that all hooks of the pre-filter are properly attached to the purifier.

6 To reattach the side panel, mount the panel onto the bottom of the appliance first (1). Then, gently push the panel against the body of the appliance (2).

7 Repeat the above steps and assemble the air purification filter for the other side of the appliance.

4 Using the appliance

Understand the air quality light

Color of the air quality light	Air quality level
Blue	Good
Blue purple	Fair
Purple red	Unhealthy
Red	Very unhealthy

The air quality light automatically goes on when the appliance is switched on, and lights up all colors in sequence.

In a short time the air quality sensors select the color that corresponds to the ambient air quality.

Switch on

1 Put the plug of the appliance into the wall socket.
   ↳ The appliance beeps.
   ↳ All lights go on once and then go out again.

2 Press the power On/Off ⏻ to switch on the appliance.

↳ The default fan speed is (AUTO).

↳ After measuring the air quality for a short time, the air quality sensor automatically selects the color of the air quality light.

↳ The running strips " [ ] " displays on the screen when the appliance is measuring the PM2.5 level. After a short time the actual PM2.5 level will display on the screen.

3 Press the power On/Off button ⏻ again to switch off the appliance.

Change the fan speed

(AUTO)

In auto mode, the appliance selects the fan speed in accordance with the ambient air quality.

1 When this appliance is on,Defaulf speed is auto speed ,or touch the speed 4 times to choose auto speed.

↳ speed indicator goes out and auto speed indicator F-A lights on.

Manual

1 Touch speed button to choose speed needed:

F-1 (speed 1)
F-2 (speed 2)
F-3 (speed 3)
F - 4 (auto speed)

Tip

•If the air quality light lights up blue, it indicates that the air quality is good, and you can select a lower fan speed. On the other hand, if the air quality light lights up purple red or red, it indicates that the air quality is unhealthy, and you can select a higher fan speed to purify the air more quickly.

Negative ion

Using the negative ion function can effectively improve the indoor air quality and protect your health. You can choose to turn on or turn off the negative ion function (if needed).

1 Touch negative ion button, negativeion indicator will light on, which indicates the negative ion function is on.

2 Touch negative ion button again, negative ion indicator will goes out, button which indicatesthe negative ion function is off

Child lock

To keep children from using the appliance, or to avoid any misoperation, you can activate child lock

1 Press the child lock 3 seconds
↳ the child lock indicator lights up on the screen to show the child lock has been activated.

Note

Once activating the child lock, the fan speed button and all the other buttons will not react to any other actions any more.

2 To deactivate the child lock, press and hold the light On/Off button for 3 seconds again.
↳ The child lock indicator goes off.

Sleep

With the sleep mode, you can switch off the air quality light and the display screen if needed.
1 In sleep mode the screen will light off.
2 Touch the sleep button again, the display screen and all lights will light on.

Timer

With timing function, you can set this appliance to stop working after 1/2/4/8 hours .

1 Touch timer button once, you can set the appliance to stop working after 1 hour.
2 Touch timer button twice, you can set the appliance to stop working after 2 hours.
3 Touch timer button three times, you can set the appliance to stop working after 4 hours.
4 Touch timer button four times, you can set the appliance to stop working after 8 hours.
5 Touch timer button five times, you can cancel timing fuction.

Notice

Since started, this appliance will be off in 24 hours by default.

5 Cleaning

Note

- Always unplug the appliance before you clean it.
- Never immerse the appliance in water or any other liquid.
- Never use abrasive, aggressive, or flammable cleaning agents such as bleach or alcohol to clean any part of the appliance.
- Only the pre-filter is washable. The air purification filter is not washable nor vacuum cleanable.

Cleaning schedule

Frequency	Cleaning method
When necessary	Wipe the surface of the appliance with a soft dry cloth
	Clean the air outlet cover
Every two months	Clean the air quality sensor with a dry cotton swab
When the filter cleaning indicator lights up on the screen	Clean the pre-filter
When the filter replacement indicator lights up on the screen	Replace the air purification filters

Clean the body of the appliance

Regularly clean the inside and outside of the appliance to prevent dusts from collecting.

1 Wipe away dust with a soft dry cloth from the body of the appliance.

Clean the air outlet cover

1 To unlock the air outlet cover, grab the handle on the cover and pull the cover up.

2 Clean the cover with a brush.

3 To reattach the cover, mount it onto the top of the appliance first, and then push the side with the handle towards the appliance.

Clean the air quality sensor

Clean the air quality sensor every two months for optimal functioning of the appliance. Clean it more frequently if you use the appliance in a dusty environment.

1 Clean the inlet and outlet of the air quality sensor with a soft brush.

2 Open the cover of the air quality sensor.

3 Clean the sensor, the dust inlet and outlet with a lightly moistened cotton swab, and finish with a dry cotton swab.

4 Close the sensor cover.

Clean the pre-filter

Filter alert light status	Follow this
A- 1 lights up on the screen	Clean the pre-filter

Note

- Filter indicator A- 1 lights up approximately once every month.

1 Rinse the pre-filters under a running tap. If the pre-filters are very dirty, use a vacuum cleaner or soft brush to remove the dust before rinsing under the tap.

Note

- Make sure to rinse the pre-filters equipped in both sides of the appliance.

2 Air dry the pre-filters.

Note

- Make sure that the pre-filters are completely dry before you put them back in the appliance. If they are still wet, bacteria may multiply in them and shorten the lifetime of the pre-filters.

3 After the pre-filters are properly put back in the appliance, reset the filter lifetime counter. (Refer to chapter 7 "Resetting the filter lifetime counter".)

6 Replacing the air purification filter

Understand the healthy air protect lock

This appliance is equipped with the healthy air protect lock to make sure that the filters are in optimal condition when the appliance is operating. When the filters are almost expired, the air purification filter replacement light (A-2) lights up on the screen to indicate that the filters have to be replaced.

If you do not replace the filters in time:

- ↳ The air purification filter replacement indicator (A-2) remains on.
- ↳ The appliance stops operating and is locked.

Replacing the air purification filter

Note

- The air purification filters are not washable nor vacuum cleanable.
- The default air purification filter for this appliance is a composite filter of activated carbon and HEPA filter. If you want to try and use other filters, please contact the distributor to change into other filters, and learn about how to apply new filters for this product.

Filter alert light status	Follow this
A-2 displays on the screen.	Replace air purification filter.

1 Take out the pre-filters on both sides of the appliance.

2 Take out the expired filters, and gently put them into the trash bin.

Note

- Do not touch the pleated filter surface, or smell the filter as it has collected pollutants from the air.

3 Remove all packaging material of the new filters.

4 Put the unpacked air purification filters back into the appliance.

5 After the pre-filters are properly put back in the appliance, reset the filter lifetime counter. (Refer to chapter 7 "Resetting the filter lifetime counter".)

Note

- Cleanse your hands after changing filter.

7 Resetting the filter lifetime counter

After you have cleaned the pre-filter, or replaced the air purification filters, it is important that you also reset the filter lifetime counter afterwards. This allows the appliance to be in sync with the filter lifetime.

1 Press setting button for 3 seconds.
   ↳ The filter light goes out, and the appliance resumes working automatically.

8 Troubleshooting

This chapter summarizes the most common problems you could encounter with the appliance. If you are unable to solve the problem with the information below, contact the Consumer Care Center in your country.

Problem	Possible solution
The appliance does not work even though it is plugged in.	The filter replacement light has been on the screen continuously but you have not replaced the corresponding filter. As a result, the appliance is now locked. In this case, replace the filter and reset the filter lifetime counter.
The airflow that comes out of the air outlet is significantly weaker than before.	The pre-filter is dirty. Clean the pre-filter (see the chapter "Cleaning").
The air quality does not improve, even though the appliance has been operating for a long time.	•One of the filters has not been placed in the appliance. Make sure that all filters are properly installed in the following order, starting with the innermost filter: 1) air purification filter; 2) pre-filter. •The air quality sensor is wet. The temperature in your room is high and causes condensation. Make sure that the air quality sensor is clean and dry (see the chapter "Cleaning").
The color of the air quality light always stays the same.	The air quality sensor is dirty. Clean the air quality sensor (see the chapter "Cleaning").

Problem	Possible solution
The appliance produces a strange smell.	The first few times you use the appliance, it may produce a plastic smell. This is normal. However, if the appliance produces a burnt smell, contact your dealer or an authorized service center. The appliance may also produce an unpleasant smell when one of the filters is dirty. In this case, you con turn on the sleep mode.
The appliance is extra loud.	If the appliance is too loud, you can change the fan speed to a lower fan speed level. When using the appliance in a bedroom at night, you can tarn on the sleep mode.
The appliance still indicates that I need to replace a filter, but I already did.	Perhaps you did not reset the filter lifetime counter. Switch on the appliance. Then press setting button for 3 seconds
The appliance stops working, speed indicator blinks.	The motor has malfunctions. Please contact local dealer or an authorized service center.

9 Guarantee and service

If you need more information or if you have any problem, please contact consumer service center.

Order parts or accessories

If you have to replace a part or need to purchase an additional part, or to know about the information or have any questions, please visit customer service center. If you have problem getting a part, please contact the customer service center.

10 Notices

Electromagnetic fields (EMF)

This appliance complies with all applicable standards and regulations regarding exposure to electromagnetic fields.

Recycling

Do not throw away the product with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.

Follow your country's rules for the separate collection of electrical and electronic products. Correct disposal helps prevent negative consequences for the environment and human health.

Warranty

This appliance is well designed and manufactured with high-quality elements, which will work with excellent performance under normal utilization. We will provide free after-sale service if any malfunction due to fabrication or element failure occurs in one year since purchasing date.

Any customer in any country where we sell this appliance can get after-sale service whether within warranty period or not.

If our company doesn't sell this product locally, we still provide maintenance service, but may need longer maintenance time due to insufficient required part. Please understand.

Please contact local service center if you want to know more information or meet any problem.

Warranty rules:

- In one year after purchasing date, customer will get free after-sale service if the maintenance staff consider the malfunction that occurs is due to fabrication or element failure under normal utilization.
- This free after-sale service does not include components that are consumable(such as filter, pre-filter, remote controller ect), auxiliary device, transportation expenses or door-to-door expenses.
- Please well keep the warranty card.
- Please take the warranty card and invoice along while applying for maintenance.
- This card will be invalid once altered.

Customer will not get free after-sale service in the following conditions:

1. All the artificial damage such as access not appropriate power, using inappropriate accessories, inappropriate installing, not using according to the specification, wrong using or damages because of negligence. Damages caused by transportation or other accidents. Maintenance and refitting not recognized by our company. Other damages due to force majeure (e.g. natural disasters, abnormal voltage, etc.)

2. Damage caused by utilization exceeds normal home use (such as industrial and commercial use)

3. Aging and wear that appears during normal use but doesn't affect normal use.

- The warranty card is the guarantee for free maintenance in a specific period of time and under certain conditions, but not limiting the legal rights of consumers.

Product: air purifier
Typer:
Rated voltage : 110V~220V
Rated frequency : 50Hz
Rated power : 60W
Fabrication date :
Refer to the label on the appliance

Product performance index

Pollutant	CADR	CCM	Purification level
Particulate matter	680 m^3/h	P4	High
Formaldehyde	>400 m^3/h	F4	High
Formaldehyde	>400 m^3/h	—	High

Noise	62 dB(A)	Applying area	47 - 80 m^2