

Perfecting the Air



PROTECT YOUR LOVED ONES

from harmful indoor air

STREAMER ON for Pure Air Performance



Perfecting Indoor Environmental Quality

with superior filtration technologies, for healthier indoor air quality and safer environments for all.

CONTENTS

- **3 6** Daikin's Streamer Technology
- **7 8** Long Life Filters
 - Powerful 3-Directional Suctions & Reduced Operation Sound
 - Powerful Humidification to protect against Air Dryness & Viruses
 - *Applicable on MCK55TVM6 Model only
 - **11** Convenience
 - **12** Placement Recommendation
- **13 14** Specifications
 - **15** Functions

3 Steps to decompose harmful substances



Decomposition

Uses Daikin's Streamer technology to decompose harmful substances caught on the filter by oxidation.*1

Effect after nine hours in a space of about 200L. No maintenance or no replacement is required for Deodorizing filter



Note

* Placed an air purifier in a 1 m³ box with acetaldehyde as an exhaust gas-derived VOC and operated the air purifier.

Test result: Confirmed an increase in concentration of generated product (CO₂) when acetaldehyde was decomposed by Streamer. (Evaluation by Daikin)

by Streamer. (Evaluation by Daikin)
Test unit: MCK55S (Japanese model), a model equivalent to MCK55T series.



Effective Capture Of Pollutants

Catches dust and pollutants effectively with an electrostatic HEPA filter. 10 years life span for Electrostatic HEPA filter





Powerful Suction

Takes in dust over a wide area from 3 directions.





Streamer decomposes by suction

Streamer, a type of plasma discharge, decomposes

hazardous chemical substances.
The decomposition power is comparable to thermal energy of about 100,000°C.*2



ote: Comparison of oxidation decomposition. This does not mean temperature will become high.

■ Mechanism of decomposition by Streamer



Streamer emits high-speed electrons



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

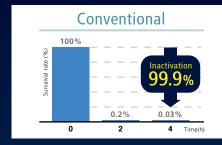


The decomposing elements provide decomposition power.

in activation of the Omicron variant of Coronavirus (SARS-CoV-2) within 2 hours

Demonstration of the inactivation effects against 6 types of Coronavirus variants by Streamer technology.

*Each survival rate is calculated by comparison with the rate of natural attenuation of each hour.













Test Organization

Conventional strain: Faculty of Veterinary Medicine, Okayama University of Science Alpha, Beta, Gamma, Delta, and Omicron strain: Research Institute for Microbial Diseases, Osaka University

Test Method

Quantification was performed by the TCID50 method using an acrylic box of about 31L. The virus loads were quantified using Vero E6 / TMPRSS2 cells. *This result was obtained by using a Streamer discharge device for testing in lab conditions.

The effect of products equipped with Streamer technology or results in actual use environments may differ.

Scan here for more



The Three C's of Streamer



THE STREAMER SYMBOL CONSISTS OF THREE C'S



Decomposes harmful substances on dust collection filter by oxidation



Remove bacteria from dust collection filter





and decompose odour

Unique vertical structure



Humidifying filter (MCK55 model only)

Double-layer filter for humidification

No need to change for 10 seasons

Deodorising filter

Absorbs odour

Active plasma ion generation unit

(MCK55 and MC55 models only.)

Dust collection filter (Electrostatic HEPA filter)

Catches fine particles of dust

10 years life span (In operation)

Streamer unit

Pre-filter

Catches large particles of dust

About the dust collection and deodorising capacity of air purifiers:

• Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.

• Not all odour components that emanate continuously (building material odours and pet odours, etc.) can be removed.

This product is not a medical device, medical treatment device or a therapeutic good.

This product is not intended to have any therapeutic use or to be used for the diagnosis, treatment, relief or prevention of illness. If you have a health concern or are not feeling well, please consult a health care professional.

It may become necessary to change out items that usually do not require replacing due to environmental and operational conditions.



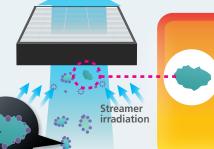
1 Clash

Decomposes harmful substances on the dust collection filter by oxidation!

Harmful gaseous chemical substances attach to the surface of floating substances in the air.

Gaseous chemical substance

Particulate matter - (floating substance)



The dust collection filter catches the floating substances with the attached harmful gases and Streamer decomposes the harmful gases by oxidation. *1

2 Cycle

The deodorising filter absorbs and decomposes odour.

The deodorising capacity is maintained because the adsorbing capacity regenerates.

(Comparison with conventional Daikin products. Evaluation under conditions set by Daikin).*2



Deodorising capacity is maintained thanks to regeneration.

No need to change deodorising filters

3 Clean

Removes bacteria from dust collection filter*3, humidifying filter*4, and humidifying water.*5





Streamer unit

Note:

- *1 (Reduction of gases) Testing organization: Life Science Research Laboratory. Test method: After operating a gasoline engine for 10 minutes (when particulate concentration reached 60mg/m³), operated the air purifier for 80 minutes to absorb polluting dust emitted from the engine. Operated this air purifier for 24 hours in a closed space of 200L and measured the effect to decompose gases. Test result: Compared with a test without Streamer irradiation, gas components were reduced by 63% in 9 hours. Test number: LSRL-83023-702. Test unit: Tested with MCK70N (Japanese model).
- *2 Placed the air purifier and an odour component, acetaldehyde, in a box of 21 m³ and operated the air purifier. Examined increase of concentration of product (CO2) generated by decomposition of acetaldehyde by Streamer (evaluation by Daikin).

 Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series.
- *3 Testing organization: Japan Food Research Laboratories. Test number: 15044988001-0201. Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a dust collection filter installed in an air purifier, and operated it in a test area of 25 m³. Counted the number of live bacteria after five hours. Test object: A type of bacterium. Object part: Dust collection filter. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).
- *4 (Removal of bacteria from humidifying filter) Works on objects caught by the humidifying filter. Testing organization: Japan Food Research Laboratories. Test number: 15044989001-0101
 - Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a humidifying filter installed in an air purifier, and operated it in a test area of 25 m³. Counted the number of live bacteria after five hours. Object part: Humidifying filter. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).
- *5 (Reduction of bacteria in humidifying tray) Testing organization: Japan Food Research Laboratories. Test number: 15044985004-0101.

 Test method: Performance evaluation test by voluntary standard of Japan Electrical Manufacturers' Association (HD-133). Test object: Moulds and bacteria in humidifying water. Test result: Reduced by more than 99% in 24 hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).

This product can be used to improve the quality of the air by removing airborne hazardous chemical substances, allergens, mould, bacteria, and viruses, etc. However, this product is not intended for the creation of sterile environments or for the prevention pathogen infections.

This description relates to the Streamer Technology devised by Daikin, but not to this Air Purifier. Test results from use of the Streamer Technology are generated according to prescribed test methods conducted by Daikin. Although the Streamer Technology is contained within this Air Purifier, this does not mean that precisely the same results will be experienced using this Air Purifier. Actual results may differ depending on the conditions of product installation and use of the actual product, etc.

Daikin's Unique Double Method





Inside

Streamer decomposes by suction

Streamer, a type of plasma discharge, decomposes hazardous chemical substances.

The decomposition power is comparable to thermal energy of about 100,000°C.*2



Note:

*²Comparison of oxidation decomposition. This does not mean temperature will become high.

Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.



The decomposing elements provide decomposition power.



Outside

Active plasma ion flow out

*MCK55 and MC55 models only.

The plasma ion technology uses plasma discharge to release ions into the air, which combine with components of the air to form active species with strong oxidizing power like OH radical. They attach to the surface of fungi and allergens and decompose proteins in the air by oxidation.

Daikin's plasma ions have been proved safe. Safety concerning effect on skin, eyes, and respiratory organs

Testing organization: Life Science Laboratories, Ltd. Name of test: repeated-dose toxicity test
Test number: 12-II A2-0401

6

25,000 ions/cm^{3 *1}

Note:

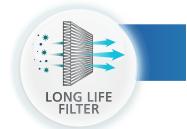
*1 The number of ions per 1cm³ of air blown into the atmosphere measured near the air outlet during operation with maximum airflow. Test conditions: temperature 25°C, humidity 50%.

Mechanism of reduction by active plasma ions



Image is for illustrative purposes

Long Life Filters: Electrostatic HEPA Filter



- No replacement is required and 10 years life for Electrostatic HEPA filter
- Having genuine HEPA and deodorizing filter lifetime cost to provide more cost advantage to the end user
- 3-stage filtration system of pre-filter, deodorising filter and dust collection filter (Electrostatic HEPA filter) ensures thorough and rapid purification

FEATURES HIGH-PERFORMANCE FILTER TO CATCH FINE PARTICLES OF DUST

Removes 99.97% of fine particles of 0.3µm *1

Note:

*¹This is removal performance of filter and not removal performance for entire room.



The filter collects dust efficiently with electrostatic forces. It is not prone to clogging compared with unelectrified HEPA filters which collect particles only by the fineness of the mesh.



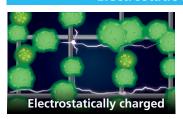
Therefore, a larger amount of air can pass through the filter.



The filter can purify a larger amount of air!

Comparison between Electrostatic HEPA Filter and Non-electrostatic Filter

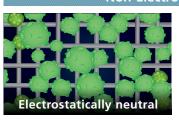
Electrostatic HEPA Filter



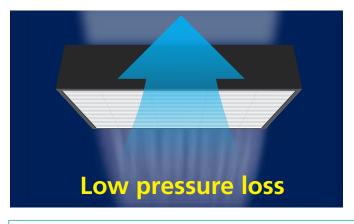
Filter fiber itself is charged with static electricity, and collects particles efficiently.

Doesn't clog easily because of low pressure loss.

Non-Electrostatic Filter



Because it catches particles relying only on mesh size, it is necessary to make mesh finer, making it easy to be clogged.





About the dust collection and deodorising capacity of air purifiers:

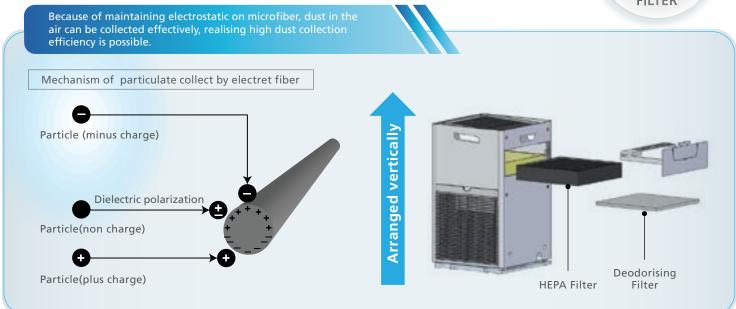
- Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
- Not all odour components that emanate continuously (building material odours and pet odours, etc.) can be removed.

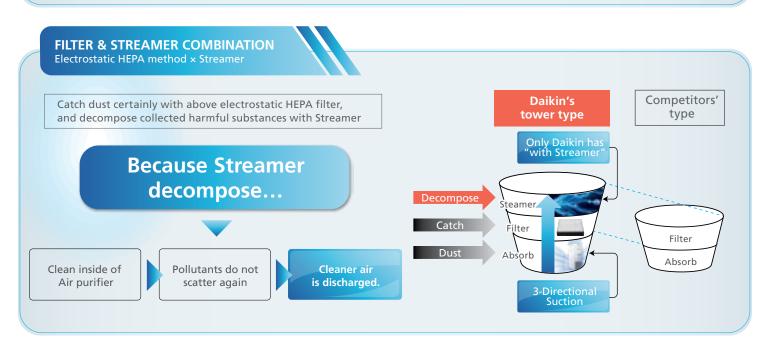
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Long Life Filters









Powerful Suction and **Reduced Operation Sound**

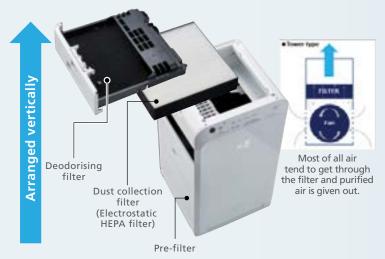


COMPACT, EFFECTIVE AND QUIET THANKS TO THE **NEW, INNOVATIVE STRUCTURE**



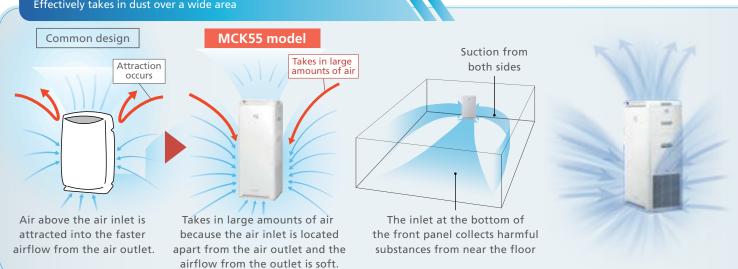


Arranged horizontally



POWERFUL SUCTION IN 3 DIRECTIONS

Effectively takes in dust over a wide area



OPERATION SOUND SENSED BY PEOPLE IS REDUCED

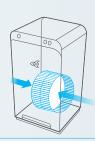
(Comparison with conventional Daikin products. In turbo operation)

The key is the sound of airflow from the air outlet

Daikin succeeded in reducing the operation sound sensed by people by adopting a wide air outlet and positioning the fan below the filters for soundproofing effect.

The fan is positioned below

Positioned farthest from people's ears. The filters also provide a soundproofing effect, so the operation sound is not disturbing.



Powerful Humidification to protect against Air Dryness & Viruses



(Suitable for bedroom) Applicable on MCK55TVM6 Model only

BENEFIT OF HUMIDIFICATION

Protects the skin, the throat and the nostril from dryness.



Protects against viruses by maintaining appropriate humidity of the room.



SELECT THE TARGET HUMIDITY FROM 3 LEVELS

(The target humidity is a rough estimation.)



Low Standard High 50% 60%

INDICATES HUMIDITY OF THE ROOM

HUM monitor (%)

ELIMINATES BACTERIA ON THE HUMIDIFYING FILTER *1

Effect after five hours in a test space of about 25 m³. This is an effect in a test space and not a test result in an actual operation space.



REDUCES BACTERIA IN HUMIDIFYING WATER BY STREAMER *2

The humidifying tray needs regular maintenance (once in about a week). This is not a verification result in an actual operation environment.

The humidifying tray is irradiated with Streamer as well as the humidifying filter to reduce bacteria in the water. By keeping the water and its surroundings clean, the air purifier provides clean air and humidity to the room.

Use tap water to fill the tank, and replace with fresh water every day. Using well water or water from water purifiers makes bacteria develop faster.

Features for clean humidification

- The humidifying tray is equipped with a silver ion agent
- A water wheel system to keep the humidifying filter from being directly soaked in water



ote:
(Removal of bacteria from humidifying filter) Works on objects caught by the humidifying filter.
Testing organization: Japan Food Research Laboratories.
Test number: 15044989001-0101.
Test method: Attached a test piece incoulated with bacteria liquid on the upstream side of a humidifying filter installed in an air purifier, and operated it in a test space of 25 m³. Counted the number of live bacteria after five hours.

Object part: Humidifying filter.

Test result: Reduced by more than 99% in five hours.

Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).

*2 (Reduction of bacteria in humidifying tray) Testing organization: Japan Food Research Laboratories. Test number: 15044985004-0101.
Test method: Performance evaluation test by voluntary standard of Japan Electrical Manufacturers' Association (HD-133).
Test object: Moulds and bacteria in humidifying water.

Test result: Reduced by more than 99% in 24 hours.
Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).

Convenience

"TRIPLE DETECTION" SENSOR **TO QUICKLY DETECT PM2.5**

Equipped with a high sensitivity dust sensor that distinguishes small particles such as PM2.5 and larger particles of dust and reacts accordingly. Along with the odour sensor, "triple detection" of dust, PM2.5 and odour is provided.

(MCK55 model)



(MC55 / 40 models)



An air purifier to remove PM2.5

Removes 99% of particles between 0.1µm and 2.5µm*1 in size

Entry of new particles from outdoors, for example by ventilation, is not considered.

smaller. This air purifier has not been proved to remove very fine particles of less than 0.1µm.

in an actual operation space.

Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series.

- *¹Test method: Japan Electrical Manufacturers' Association Standard JEM1467. Criterion: Remove 99% of fine particulate matters of 0.1 to 2.5µm in a closed

CHOOSE FROM THE VARIOUS OPERATION MODES

- Auto Fan mode
- Econo mode for energy saving

(MCK55 model)



- Anti-pollen mode
- Moist mode (MCK55 model only)

Humidity is automatically adjusted to be gentle on the skin and throat.

MODE ■ AUTO ■ ECONO ■ POLLEN (MC55 / 40 models)

OTHER USEFUL FEATURES

Filter cleaning without opening the panel

Just vacuum with a cleaner. No need to open the panel to clean the filter.



Easy-to-detach water tank (MCK55 model only)

The water tank is conveniently placed in a high position for easy detaching.

The compact size of the tank makes it easy to replenish water in a sink or a wash basin.



Equipped with a remote controller

Convenient for operation from a distant position.





Equipped with roll-away casters (MCK55 model only)

Easy to move to clean the floor.



Placement Recommendation

POINTERS FOR GOOD PLACEMENT

- ✓ Choose a position from where airflow can reach all areas of the room.
- ✓ Place on a stable surface. If the unit is placed on an unstable surface, vibrations from the unit may be amplified.
- ✓ If you find that interference from the power circuit inside the unit or cables causes interference on your TV screen or static noise to be emitted from nearby radios or stereos, move the unit to at least 2m away from the device. Keep cordless phones and radio-controlled clocks away from the unit also.
- TIPS

Real Property

Real Property lies

- To avoid staining of walls, position the unit in accordance with the positioning measurements in the illustration. However, note that since this unit draws in dirty air, certain types of wall may be stained even if the measurements are adhered to. In such cases, make sure to maintain sufficient distance between the unit and the wall.
- When used for a long period of time in the same location, the floor and surrounding walls may get stained as air is frawn into air inlets near the base of the unit. It is recommended to clean the unit peroidically.

At least 100cm away from ceiling

At least 30cm away from wall

Air Flow

At least 30cm away from wall

At least 10cm away from wall

Specifications

			Standard Air Purifier 30 type			Streamer Air Purifier 40 type					
MODEL					STREAMER						
				MC30YVM7			MC40UVM6				
Colour				White							
Colour of air outlet											
Mode				Air purifying operation							
Applicable room area*	Air purification		m ²	23 31 (13.2m² purified in approx. 19 minutes) (13.2m² purified in approx. 15 min.)							
	Air purification + Humidification										
Power supply			1 Phase, 220–240/220–230V, 50/60Hz								
Plug shape				C type							
Mode			Quiet	Standard	Turbo	Quiet	Low	Standard	Turbo		
Airflow rate			m³/min.	1.0	2.0	3.0	1.1	1.8	2.8	4.0	
Power cons	Power consumption		W	8	15	25	7	9	13	23	
Sound press	Sound pressure level		dB	19	27	37	19	27	36	49	
Humidification* ² mL/h											
Dimensions mm			H450 X W270 X D270			H500 × W270 × D270					
Weight kg			5.8 6.8								
Dust collection filter				Electrostatic HEPA filter							
Humidifying method				_							
Tank capacity				_							
Outin	Davida	Dust collection		BAFP500A (1 sheet) (Purchase of new filters is needed after about 10 years)*2 (Purchase of new filters is needed after about 10 years)*3							
Optional accessories	Replacement filter	Deodorising		No replacement is required - Lifetime operation							
		Hum	idifying								

Note: *1 Calculation based on testing method of the Japan Electrical Manufacturers , Association standard JEM1467.

The standard assumes five or more cigarettes are smoked per day.

Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.

More frequent filter exchange may be needed depending on operating conditions

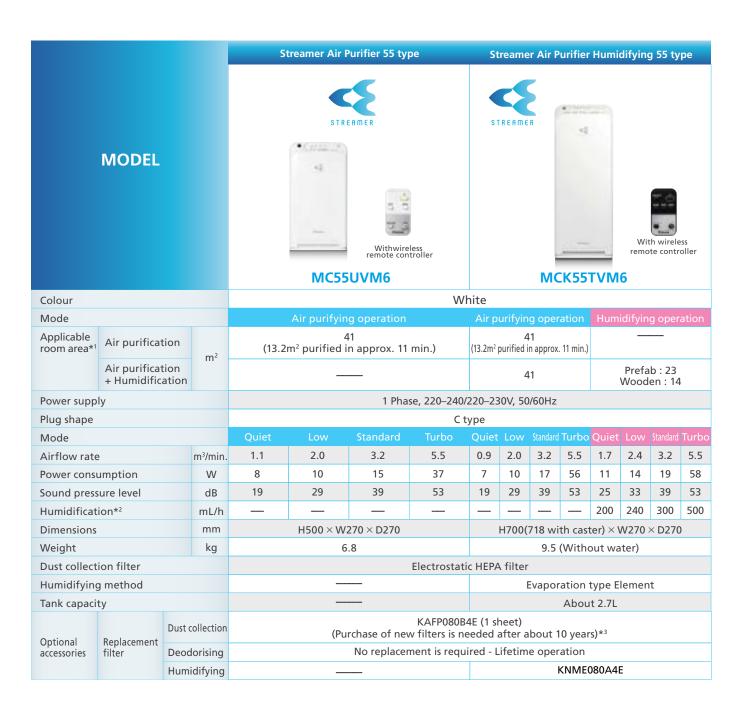
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^{*2} Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.



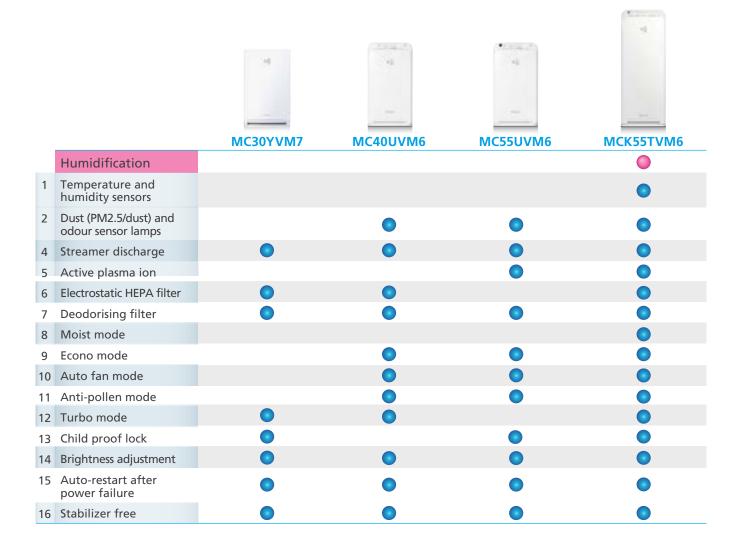
Note

- $^{\star 1}\, Calculation \, based \, on \, testing \, method \, of \, the \, Japan \, Electrical \, Manufacturers \, , Association \, standard \, JEM1467.$
- *2 Humidification amount changes in accordance with indoor and outdoor temperature and humidity. Measurement condition: 20°C in temperature, 30% in humidity.(JEM1426)
- *3 Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467. The standard assumes five or more cigarettes are smoked per day.

 Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.

 More frequent filter changing may be needed depending on operating conditions.

Functions



1 Temperature and humidity sensors

Humidity is detected and shown by an easy-to-understand indicator.

Dust (PM2.5/dust) and odour sensor lamps "Triple detection" is performed by a dust sensor (which distinguishes small particles, such as PM2.5 and larger particles of dust, and reacts accordingly) and an odour sensor.

3 Dust (PM2.5/dust) sensor lamps

A dust sensor detects house dust and PM2.5 ultrafine particles approx. 2.5µm and smaller, and the lamps indicate air quality.

4 Streamer Discharge

This function quickly decomposes odours and allergens, etc., with high speed electrons that have a powerful ability to oxidize.

5 Active plasma ion

The active plasma ion technology decomposes odours and allergens in the air by plasma ions with strong oxidizing power.

6 Electrostatic HEPA filter

There is a high-performance filter that catches 99.97% of 0.3µm fine particles.

7 Deodorising filter

Odours and adjuvants are caught on the catalyst and decomposed by the power of Streamer.

8 Moist mode

Automatic control maintains relatively high humidity that is gentle to the throat and the skin.

Econo mode

Operation automatically switches only between "Quiet" and "Low" modes in accordance with the degree of polluted air.

10 Auto fan mode

The air purifier is run, without wasteful operation, only in accordance with the level of pollutants in the air, which is detected by the sensor.

M Anti-Pollen Mode

Switching between "standard" and "low" modes to create a gentle turbulence, pollen is caught before it lands on the floor.

This convenient mode provides high-power operation to quickly clean the air in a room when, for example, you come home or when you have guests over.

B Child proof lock

This can be used to prevent small children from mishandling the air purifier.

14 Brightness adjustment

The brightness of the indicator panel lamp can be adjusted.

Auto-Restart after Power Failure

The air purifier memorises the settings for mode, airflow, etc., and automatically returns to them when power is restored after a power failure.

16 Stabilizer free

Stabilizer free operation protects the vital components of machine from power fluctuations. With this function installing stabilizer becomes needless (voltage range protection: 180~264V). If power fluctuation is beyond the limit mentioned then a stabilizer is required.

NOTE	



Perfecting the Air

For a Healthier, Greener & Smarter Tomorrow



Perfecting
Indoor Environmental
Quality



ECO Perfecting Sustainability



IoTPerfecting
Smart Solutions

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Operating Hours

(Main Office)

Monday to Friday: 8:30 am to 6:00 pm Saturday, Sunday & Public Holiday: Closed

(Showroom)

Monday to Friday: 9:00 am to 6:00 pm Saturday, Sunday & Public Holiday: Closed

(Call Center)

Monday to Friday: 9:00 am to 5:00 pm

Saturday: 9:00 am to 12:00 pm Sunday & Public Holiday: Closed

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