



Air Conditioning

頑張る  
Perseverance

Dust collection

DedORIZATION

Capacity in turbo operation mode

Air purifying operation

5.5

m<sup>3</sup> / min  
Airflow

~41

m<sup>2</sup>\*  
Applicable room area



ACTIVE PLASMA ION

Double method



Deodorizing filter



Electrostatic HEPA filter



Three-directional suction



PM2.5 sensor



Easy maintenance

# Streamer Air Purifier MC55UVM6

## Compact, effective and quiet

The MC55UVM6 purifies air thanks to active plasma ion discharge and flash streamer technology. High performance HEPA filter to catch fine particles of dust. It also features a compact design thanks to its new innovative structure that arranges filter vertically, allowing for a powerful suction and effectively taking in dust over a wide area. This new structure also provides a soundproofing effect for a quiet operation.

### Compact design

With a width and depth of only 27cm and a height of 50cm, the unit can fit perfectly in small rooms.



\*Calculated by test method based on Japan Electrical Manufacturers' Association Standard JEM1467. Operation during turbo mode has been approximated.

# Unique double method

## Streamer inside

Streamer, a high power plasma discharge technology, decomposes harmful substances\* inside the unit.

These substances are either trapped on the HEPA filter or absorbed to the deodorizing filter element.



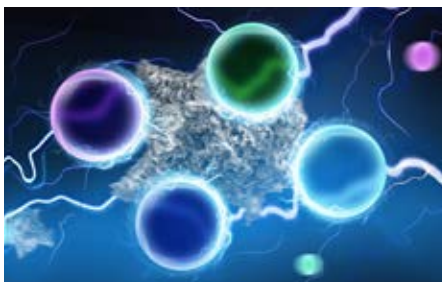
## Mechanism of decomposition by Streamer:



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.

\*Substances including: viruses<sup>1</sup>, bacteria<sup>2</sup>, pollen<sup>3</sup>, mold spores<sup>4</sup>.

1: Testing organization: Kitasato Research Center for Environmental Science; Test result certificate 21\_0026 (issued by same organization); Result of experiment: 99.9% removal of A-H1N1 virus after 1 hour.

2: 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 m<sup>3</sup>. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series (turbo operation).

3: Various allergens were irradiated by streamer discharge and the breakdown of protein in the allergens was verified using the ELISA method, cataphoresis, or an electron microscope (Joint research with Wakayama Medical University). Test example: 'Japanese cedar pollen Cryj-1'; Test result: 99,6% or more decomposed and removed in 2 hours.

4: Testing organization: Japan Food Research Laboratories. Test number: 204041635-001. Test result: 99.9% or more of mold (Cladosporium) spores decomposed and removed in 24 hours.

## Active Plasma Ion flow outside

The Active Plasma Ion generation unit provides further purification to the space, by adding purifying elements to the cleaned air. These could for example assist to deodorize smelling curtains and carpets.

## Mechanism of reduction by active plasma ions:

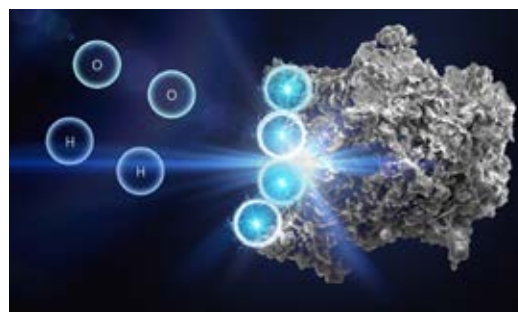


Image is for illustrative purposes

# THREE STEPS

to decompose harmful substances

## 1. Powerful suction

Three-directional suction reliably takes in dust that tends to collect near the floor from: below, left and right.

Its design allows it to take in large amounts of air because the air inlet is located apart from the air outlet so that the airflow from the outlet is soft.



## 2. Effective capture of pollutants

The unit's electrostatic HEPA filter can collect harmful substances efficiently with the power of static electricity.

Therefore it doesn't clog as easily as a non-charged HEPA filter that captures particles based on the fineness of the mesh.

## 3. Decomposition

Uses Daikin's Streamer technology to decompose harmful substances caught on the filter by oxidation.\*  
Effect after nine hours in a space of about 200L.

\*Note: (Reduction of gases) Testing organization: Life Science Research Laboratory.

Test method: After operating a gasoline engine for 10 minutes (when particulate concentration reached 60mg/m<sup>3</sup>), 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).



# Electrostatic HEPA filter

High-performance filter to catch fine particles of dust



## Removes 99.97% of fine particles of 0.3 $\mu\text{m}$ \*

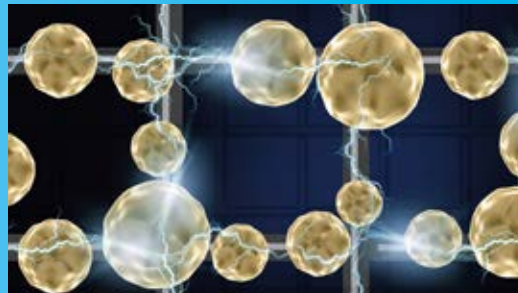
The filter collects dust efficiently with electrostatic forces. It is not prone to clogging compared with unelectrified HEPA filters which collect particles only by the fineness of the mesh.

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

▶ The filter can purify a larger amount of air!

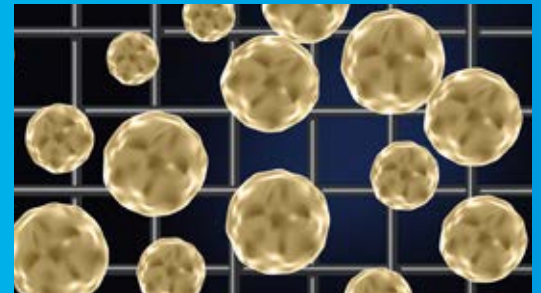
\*This is removal performance of filter and not removal performance for entire room.

### Comparison between electrostatic HEPA filter and non-electrostatic filter



#### Electrostatic HEPA filter

The fiber filter itself is charged with static electricity, and collects particles efficiently. It doesn't clog easily because of low pressure loss.

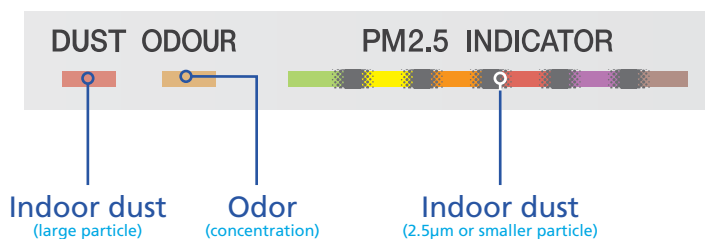


#### Non-Electrostatic filter

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

## Triple detection sensor quickly detects 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 odor sensor, "triple detection" of dust, PM2.5 and odor is provided.



## Operation modes



### Auto fan

The air purifier is run in accordance with the level of pollutants in the air, which is detected by the sensor.



### Econo

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



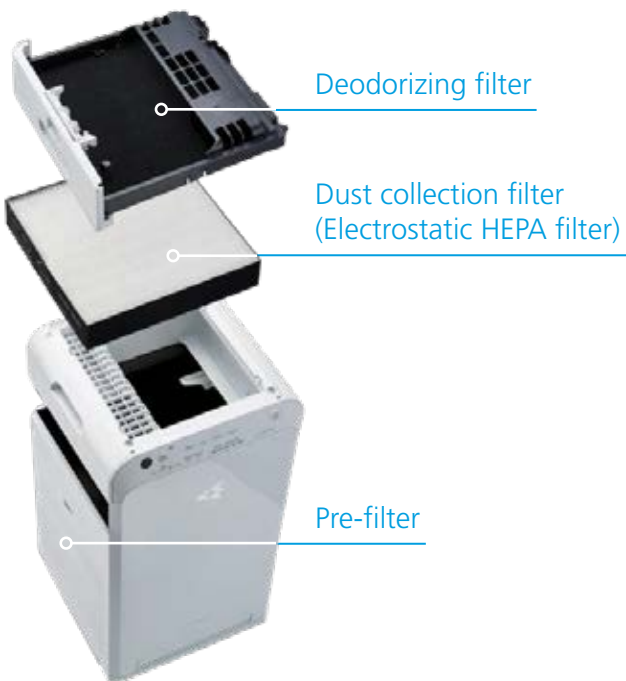
### Anti-pollen mode

Switches between "standard" and "low" modes to create a gentle turbulence and catch pollen before it lands on the floor.





## Other useful features



### Filter cleaning without opening the panel

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



# Specifications

Model		<b>MC55UVM6</b>			
Color		White			
Mode		Air purifying operation			
Applicable room area*	Air purification	41 m <sup>2</sup>			
		(13.2 m <sup>2</sup> purified in approx. 11 min.)			
Power supply		1 Phase, 220–240/220–230 v, 50/60 Hz			
Plug shape		C Type			
Mode (m <sup>3</sup> /min)		Quiet	Low	Standard	Turbo
Airflow rate		1.1	2.0	3.2	5.5
Power consumption (W)		8	10	15	37
Sound pressure level (dB)		19	29	39	53
Dimensions		270×270×500 mm			
Weight		6.8 Kg			
Dust collection filter		Electrostatic HEPA filter			
Replacement filter	Dust collection	KAFP080B4E (1 sheet) (Purchase of new filters is needed after about 10 years)**			



Includes a remote controller making it easier to operate from a distant position.

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

\*\* : 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.

\*Our commitment to continuous improvements can mean changes in specifications without notice.



Daikin is the world's leader in Air Conditioning. We are devoted to deliver outstanding products and innovative home, business, and industrial solutions.

Defy your limits  
www.daikinlatam.com