

# Air Purifier

## Healthy Air Because of DAIKIN 'Pure' Air



Scan to watch our exclusive Air Purifier video!



Bahasa Melayu Version



Chinese Version

**Double Method**





## Model debut in a compact and stylish design!

| MCK55UVMM  |                                   |   |
|--|-----------------------------------|---|
| Humidification   | Dust collection                   | Deodorisation   |
| Capacity in turbo operation mode                             |                                   |   |
| Air purification   |                                   | Humidifying capacity* <sup>2</sup>  |
| Air purification only  | Humidification + air purification | 500 <sub>mL/h</sub>   |
| Airflow 5.5 <sub>m³/min.</sub>                               | Airflow 5.5 <sub>m³/min.</sub>    |   |
| Applicable room area<br>~ 41m <sup>2</sup> * <sup>1</sup>    |                                   | Applicable room area<br>Prefab: ~23m <sup>2</sup> Wooden: ~14m <sup>2</sup> |
| Approximate room cleaning time<br>13.2m <sup>2</sup> /11min. |                                   |   |

| MC55XVMM   |               | MC40XVMM   |               |
|--|---------------|--|---------------|
| Dust collection  | Deodorisation | Dust collection  | Deodorisation |
| Capacity in turbo operation mode                             |               | Capacity in turbo operation mode                             |               |
| Air purification   |               | Air purification   |               |
| Air purification only  |               | Air purification only  |               |
| Airflow 5.5 <sub>m³/min.</sub>                               |               | Airflow 4.0 <sub>m³/min.</sub>                               |               |
| Applicable room area<br>~ 41m <sup>2</sup> * <sup>1</sup>    |               | Applicable room area<br>~ 31m <sup>2</sup> * <sup>1</sup>    |               |
| Approximate room cleaning time<br>13.2m <sup>2</sup> /11min. |               | Approximate room cleaning time<br>13.2m <sup>2</sup> /15min. |               |

### Note:

\*<sup>1</sup> Calculated by test method based on Japan Electrical Manufacturers' Association Standard JEMI467. Operation during turbo mode has been approximated.

\*<sup>2</sup> Humidifying capacity by JEMI426 (electric humidifier) with turbo operation at temperature of 20°C and humidity of 30%.

### Double Method

MCK55UVMM



With wireless remote controller

Streamer Air Purifier & Humidifier  
55 Type

### Double Method

NEW

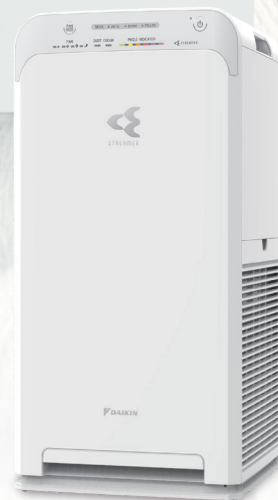
MC55XVMM



Streamer Air Purifier  
55 Type

NEW

MC40XVMM



Streamer Air Purifier  
40 Type



Ideal for bedrooms and other small rooms. The sophisticated appearance fits in perfectly with a room's interior design.



























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# Double Method



## Pollutants that can be captured and deodorised by filters:

|  |   |  |   |  |   |
|--|---|--|---|--|---|
|  House dust                                 |  Pollen (cedar, etc.)              |  Yellow dust                  |  PM2.5                                       |  Wheat flour            |  Body odour            |
|  City exhaust gas (trichloroethylene, etc.) |  NOx                               |  VOC-type chemical substances |  Moulds                                      |  Dog epidermis (dander) |  Cigarette smoke odour |
|  Cat epidermis (dander)                     |  Hamster epidermis (dander)        |  Pet hair                     |  Ammonia                                     |  Garbage odour          |  Cooking odour         |
|  Indoor air pollutants (formaldehyde, etc.) |  Diesel exhaust particulates (DEP) |  Cockroaches (droppings)      |  House dust mites (droppings and dead mites) |  Mould odour            |  Pet odour             |

## Pollutants that can be reduced:

|  |  |  |   |  |
|--|--|--|---|--|
|  Floating viruses |  Floating mould |  Attached viruses |  Attached bacteria |  Attached odour |
|--|--|--|---|--|



# ■ Daikin's Unique Double Method

\* MCK55 and MC55 models only.



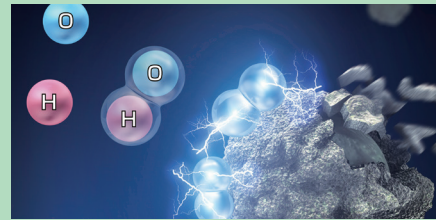
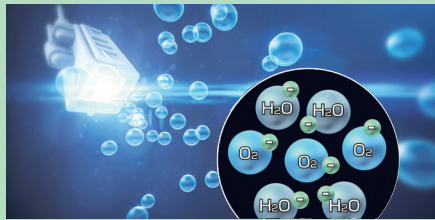
**OUTSIDE**

## Active Plasma Ion Flow Out

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.

Mechanism of reduction by active plasma ions

**Concentration: 25,000 ions/cm<sup>3</sup> \*1**



*Image is for illustrative purposes*

**Note:**

\*1 The number of ions per 1cm<sup>3</sup> of air blown into the atmosphere measured near the air outlet during operation with maximum airflow.  
Test conditions: temperature 25°C, humidity 50%.

Daikin's plasma ions have been proven to be safe in regards to effects 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

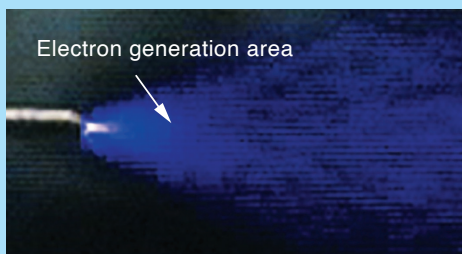


**INSIDE**

## Decomposition By Streamer

Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.\*2

Mechanism of decomposition by Streamer



**Note:**

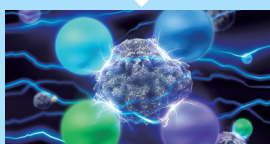
\*2 Comparison of oxidation decomposition.  
This does not mean temperature will become high.



Streamer emits high-speed electrons.

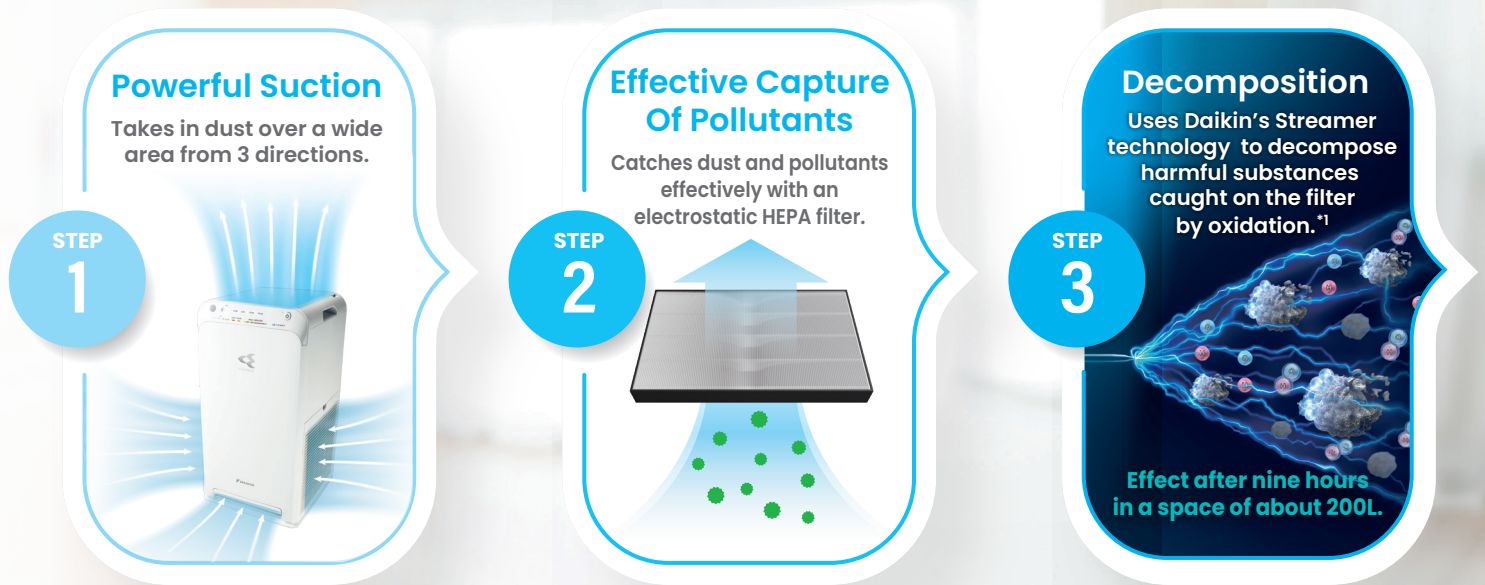


The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.



The decomposing elements provide decomposition power.

# Three Steps To Decompose Harmful Substances



**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/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.

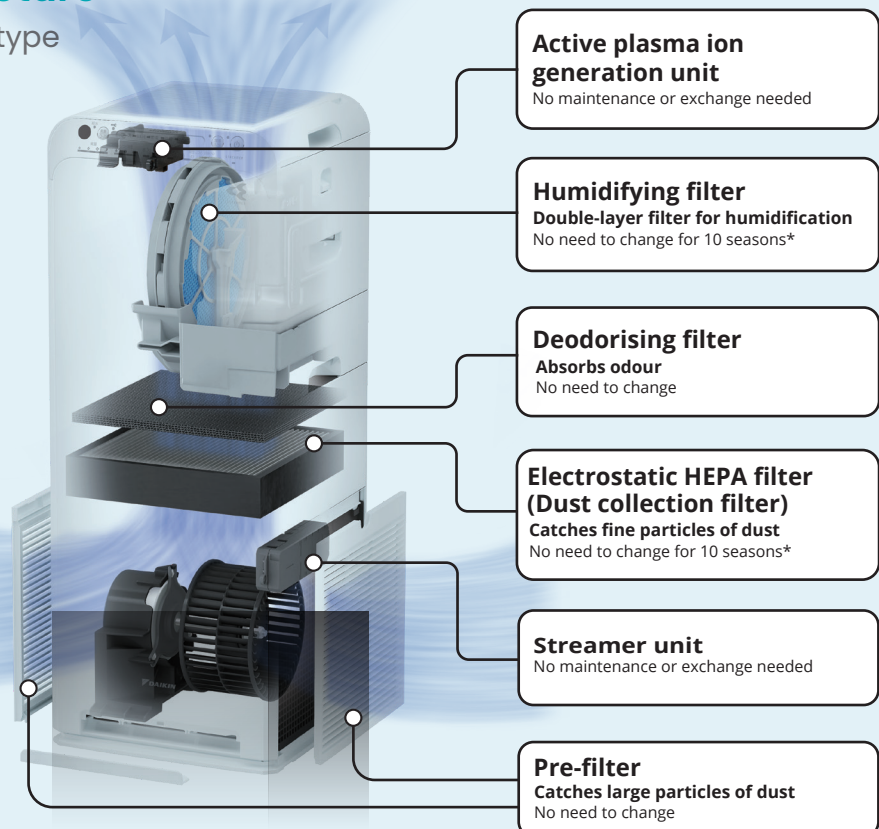
Test result: Compared with a test without Streamer irradiation, gas components were reduced by 63% in 9 hours.

Test number: LSRL-83023-702.

Test unit: Tested with MCK70N (Japanese model).

## Unique vertical structure

**MCK55UVMM** Humidifying type



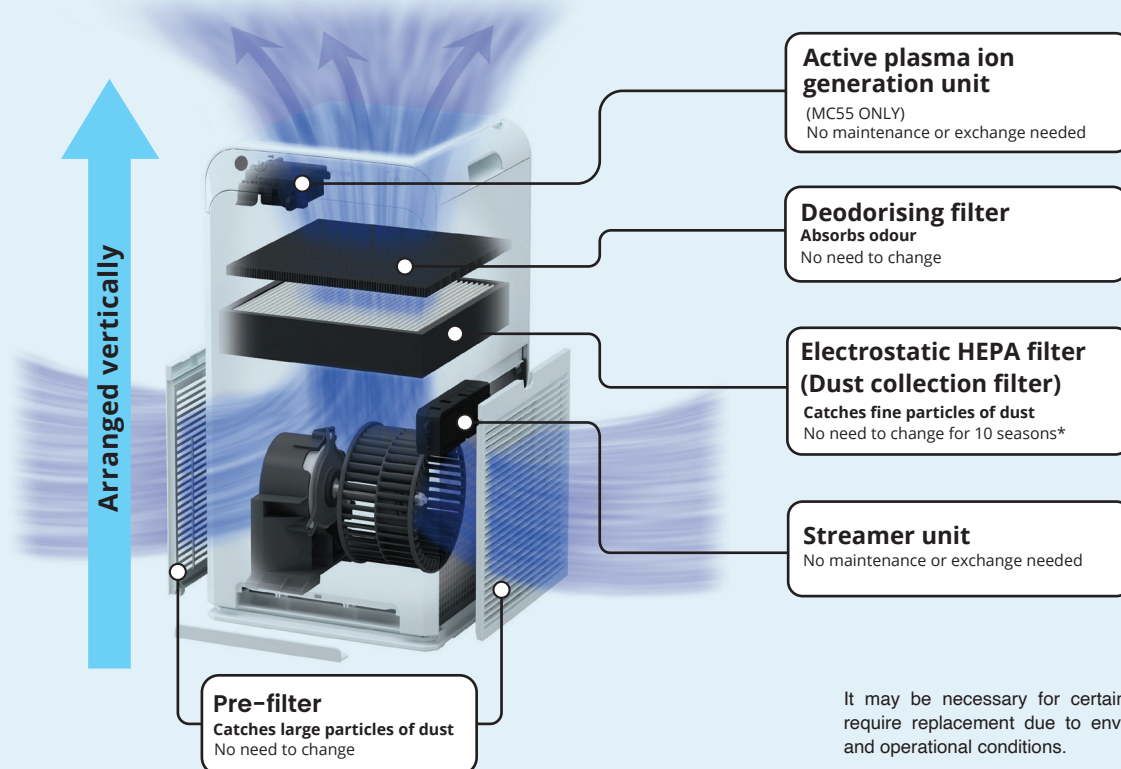
It may be necessary for certain items to require replacement due to environmental and operational conditions.

\* Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.





## Unique vertical structure MC55/40XVMM

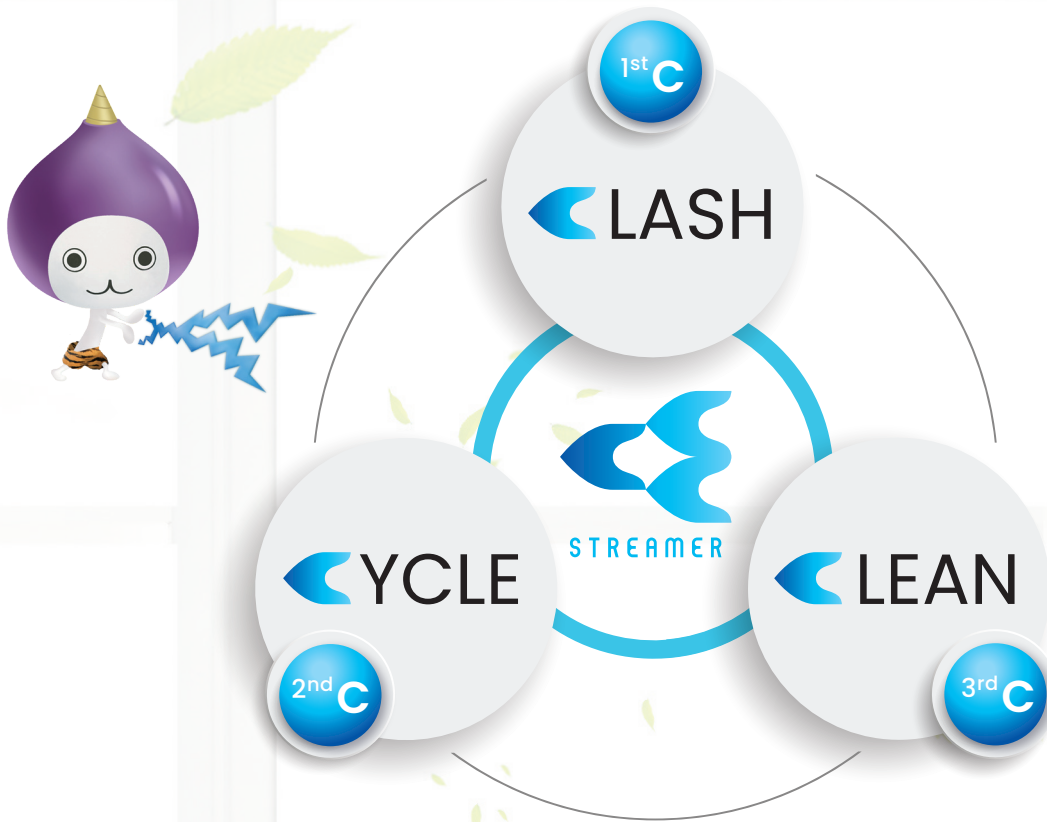


It may be necessary for certain items to require replacement due to environmental and operational conditions.

\*Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.

# The 3C's of Streamer

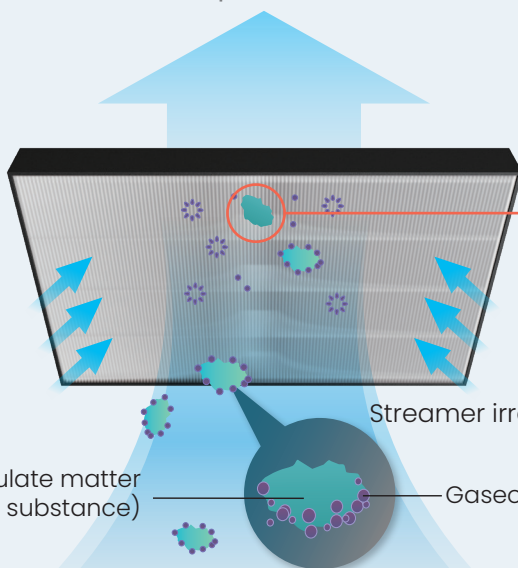
The Streamer symbol consists of three C's



1st C

## CLASH

**Decomposes harmful substances on the dust collection filter by oxidation!**



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

Particulate matter  
(floating substance)

Gaseous chemical substances

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



2<sup>nd</sup> C

## CYCLE

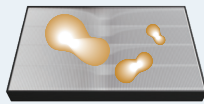
**The deodorising filter absorbs and decomposes odour**

The deodorising capacity is maintained because the adsorbing capacity regenerates.

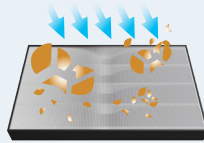
(Comparison with conventional Daikin products. Evaluation under conditions set by Daikin.) \*2

Absorb

Odour



Decompose



Streamer irradiation

Regenerate



**No need to  
change  
deodorising  
filters**

Deodorising capacity is maintained thanks  
to regeneration.

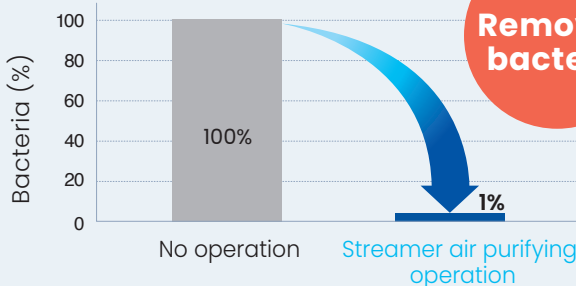
3<sup>rd</sup> C

## CLEAN

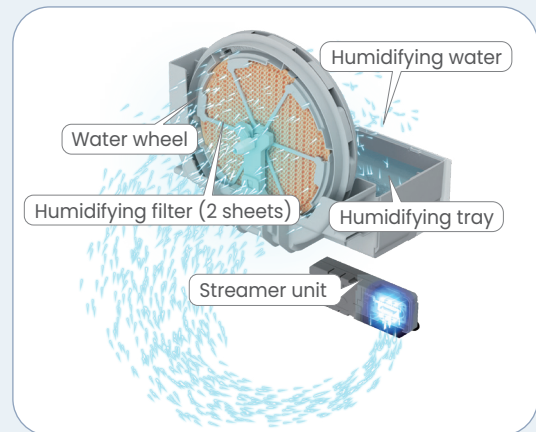
**Removes bacteria from dust collection filter<sup>\*3</sup>,  
humidifying filter<sup>\*4</sup>, and humidifying water.<sup>\*5</sup>**

## • Dust Collection Filter

Bacteria reduction performance



## • Humidifying Filter (MCK55 model only)

**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/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).

\*2 Placed the air purifier and an odour component, acetaldehyde, in a box of 21 m<sup>3</sup> and operated the air purifier. Examined increase of concentration of product (CO<sub>2</sub>) 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 m<sup>3</sup>. 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 m<sup>3</sup>. 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.

# Featuring Electrostatic HEPA filter

Removes 99.97% of fine particles of  $0.3\mu\text{m}$  <sup>\*1</sup>



Note:

<sup>\*1</sup> This is removal performance of filter and not removal performance for entire room.

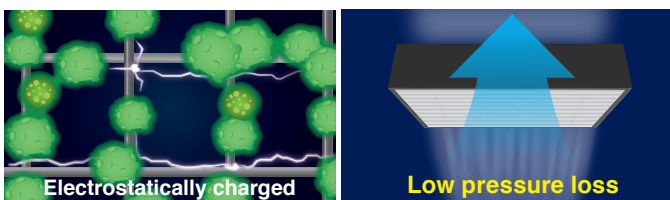
## Comparison Between Electrostatic HEPA Filter And Non-Electrostatic HEPA Filter

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.

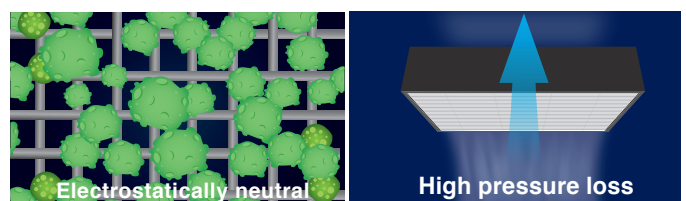
The filter can purify a larger amount of air!

### 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 HEPA 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.

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.



# Powerful Humidification to Protect against Air Dryness and Viruses

\* MCK55 model only.

## Benefit of Humidification

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

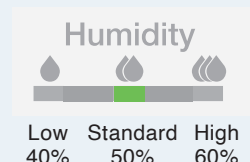


Protects against viruses by maintaining appropriate humidity of the room.

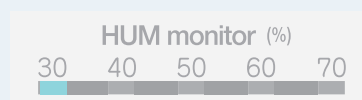


## Select the target humidity from 3 levels

(The target humidity is a rough estimation.)



## Indicates humidity of the room



## Eliminates bacteria on the humidifying filter \*1

Effect after five hours in a test space of about 25 m<sup>3</sup>.

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.

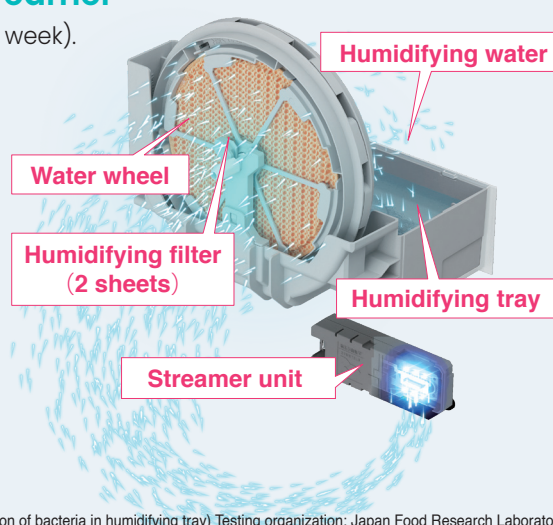
The humidifying tray is irradiated with Streamer as well as the humidifying filter to reduce bacteria in the water.

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



Note:

\*1 (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 space of 25 m<sup>3</sup>. 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.

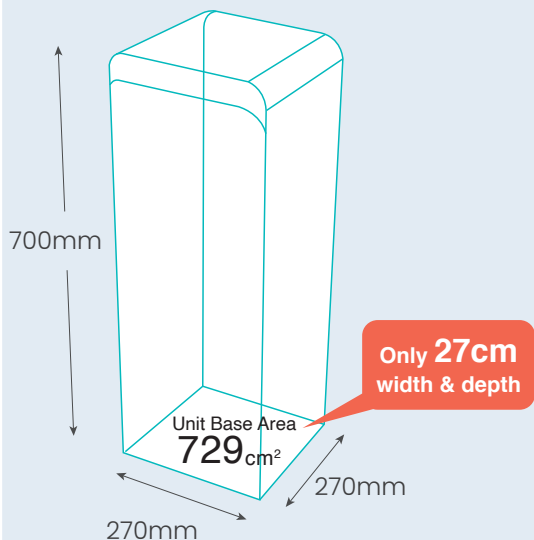
Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).



# New Stylish and Compact Design

## Flexible choice of where to place the unit

**MCK55 Model**

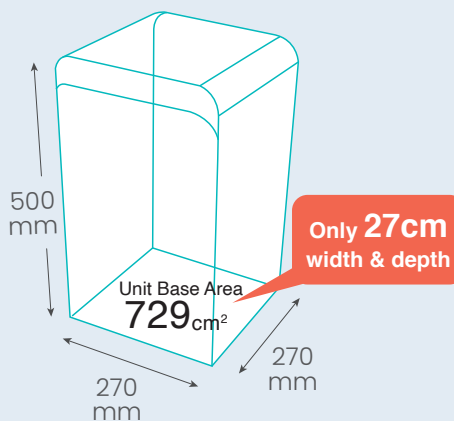


Fits in neatly because the unit is 700 mm high, roughly the height of common desks.



**NEW**

**MC55/40 Model**

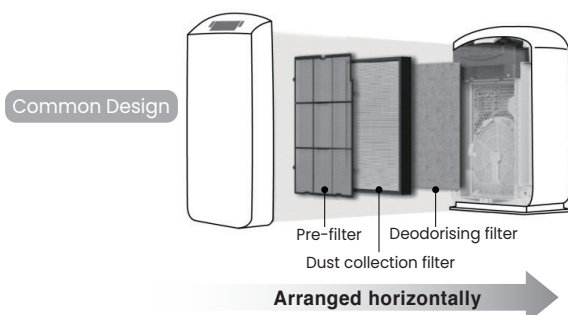




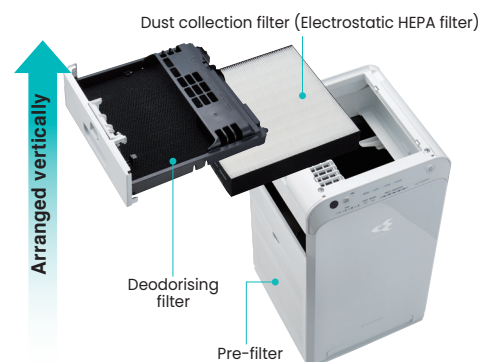


## Powerful Suction and Reduced Operation Sound

Compact, effective and quiet thanks to the new, innovative structure



MC55 / 40 Models



### Powerful suction in 3 directions

Effectively takes in dust over a wide area

Common Design

Air above the air inlet is attracted into the faster airflow from the air outlet.



MCK55 Model

Takes in large amounts of air because the air inlet is located apart from the air outlet and the airflow from the outlet is soft.



### Operation sound sensed by people is reduced

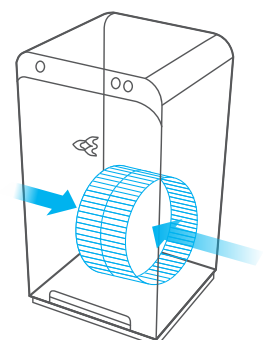
The key is the sound of airflow from the air outlet

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

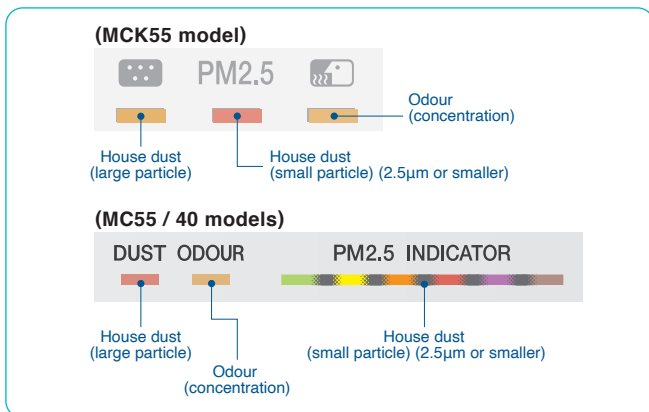
Positioned farthest from people's ears. The filters also provide a soundproofing effect, so the operation sound is not disturbing.



# 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.



## An Air Purifier To Remove Pm2.5

**Removes 99% of particles between 0.1µm and 2.5µm<sup>\*1</sup>**

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

"PM2.5" refers to general fine particulate matters sized 2.5 µm or smaller. This air purifier has not been proved to remove very fine particles of less than 0.1µm.

This product does not remove all harmful substances in the air. The test results are effects in a closed space of 32m<sup>3</sup> and not in an actual operation space.

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

Note:

<sup>\*1</sup> Test method: Japan Electrical Manufacturers' Association Standard JEM1467. Criterion: Remove 99% of fine particulate matters of 0.1 to 2.5µm in a closed space of 32m<sup>3</sup> within 90 minutes. (Converted to a value in a test space of 32m<sup>3</sup>)

## Choose from the various operation modes

- **Auto Fan mode**
- **Econo mode**  
for energy saving
- **Anti-Pollen mode**
- **Moist mode (MCK55 model only)**  
Humidity is automatically adjusted to be gentle on the skin and throat.

(MCK55 model)



(MC55 / 40 models)



## Other useful features

- **Filter cleaning without needing to open the panel**

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



- **Equipped with a remote controller (MCK55 & MC55 models only)**

Convenient for operation from a distant position.



MCK55 model



MC55 model

- **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 roll-away casters (MCK55 model only)**

Easy to move to clean the floor.





# Best Solutions for Indoor Air Quality

## PROBLEMS

Haze



Allergy – dust mite & pet fur



Pet smell (ammonia) & cooking smell

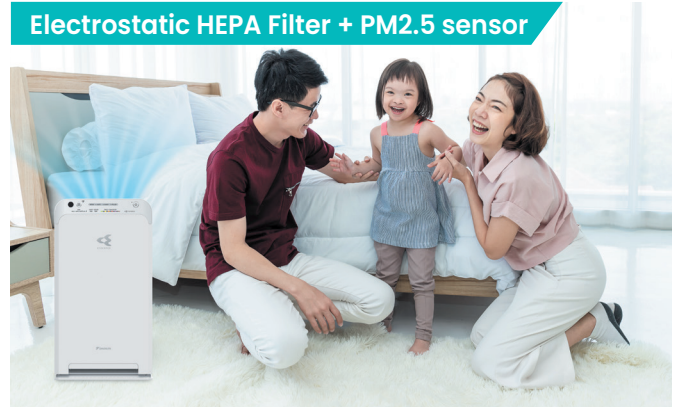


Poor air quality for babies & kids



## SOLUTIONS (FEATURE)

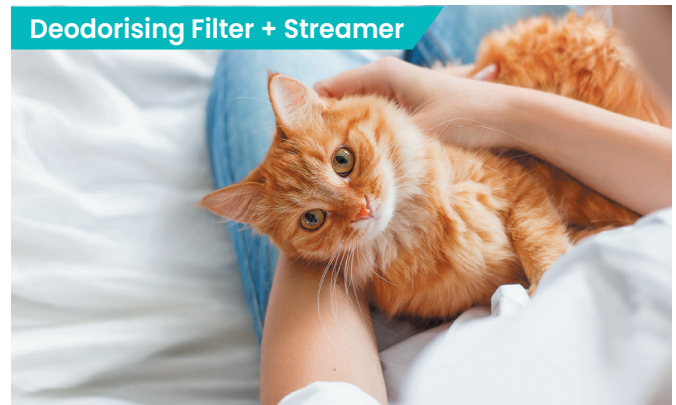
Electrostatic HEPA Filter + PM2.5 sensor



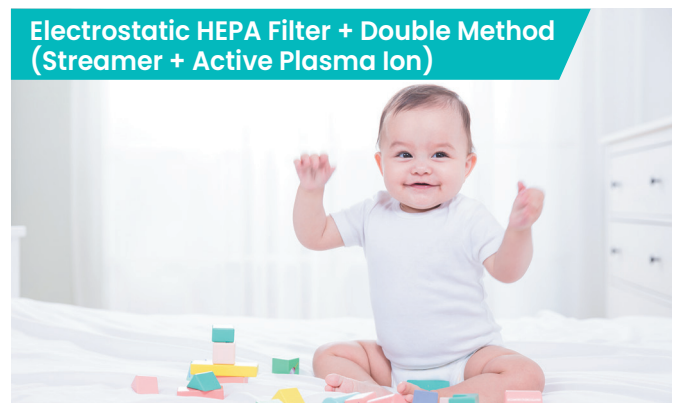
Electrostatic HEPA Filter + Streamer



Deodorising Filter + Streamer



Electrostatic HEPA Filter + Double Method (Streamer + Active Plasma Ion)





# Recommended Areas



Master Bedroom with MCK55UVMM



Living Room with MC55XVMM



Bedroom & Kids' Playroom with MC40XVMM



# Specifications

Maximum airflow

**5.5 m<sup>3</sup>/min**

With wireless remote controller

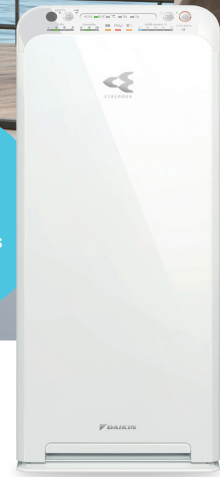
## MCK55UVMM

Humidifying type



### Capacity Guide

- Air purifying only: Up to 41m<sup>2</sup> (441 sq ft) <sup>\*1</sup>
- Maximum airflow rate: 5.5m<sup>3</sup>/min
- Humidifying & air purifying: Up to 23m<sup>2</sup>
- Maximum humidification rate: 500ml/hour <sup>\*2</sup>
- Dimensions: 270mm(W)x270mm(D)x700mm(H)



## Specifications

| Colour                             |                                   |                   | White   |       |          |       |                            |     |          |       |
|------------------------------------|-----------------------------------|-------------------|---|-------|----------|-------|----------------------------|-----|----------|-------|
| Mode                               |                                   |                   | Air purifying operation   |       |          |       | Humidifying operation      |     |          |       |
| Applicable room area* <sup>1</sup> | Air purification                  | m <sup>2</sup>    | 41  |       |          |       | -----                      |     |          |       |
|                                    | Air purification + Humidification |                   | 41  |       |          |       | Prefab : 23<br>Wooden : 14 |     |          |       |
| Power supply                       |                                   |                   | 1 Phase, 220~240/220~230V, 50/60Hz  |       |          |       |                            |     |          |       |
| Mode                               |                                   |                   | Quiet   | Low   | Standard | Turbo | Quiet                      | Low | Standard | Turbo |
| Airflow rate                       |                                   | m <sup>3</sup> /m | 0.9   | 2.0   | 3.2      | 5.5   | 1.7                        | 2.4 | 3.2      | 5.5   |
| Power consumption                  |                                   | W                 | 7   | 10    | 17       | 56    | 11                         | 14  | 19       | 58    |
| Sound pressure level               |                                   | dB                | 19  | 29    | 39       | 53    | 25                         | 33  | 39       | 53    |
| Humidification* <sup>2</sup>       |                                   | mL/h              | -----   | ----- | -----    | ----- | 200                        | 240 | 300      | 500   |
| Dimensions                         |                                   | mm                | H700 X W270 X D270  |       |          |       |                            |     |          |       |
| Weight                             |                                   | kg                | 9.5 (Without water)   |       |          |       |                            |     |          |       |
| Dust collection method             |                                   |                   | Electrostatic HEPA filter   |       |          |       |                            |     |          |       |
| Humidifying method                 |                                   |                   | Evaporation type Element  |       |          |       |                            |     |          |       |
| Tank capacity                      |                                   |                   | About 2.7L  |       |          |       |                            |     |          |       |
| Optional accessories               |                                   |                   | Replacement dust collection filter : KAFP080B4E<br>(Purchase of new filters is needed after about 10 years)* <sup>3</sup> |       |          |       |                            |     |          |       |
|                                    |                                   |                   | Replacement humidifying filter : KNME080A4E   |       |          |       |                            |     |          |       |
|                                    |                                   |                   | Caster : KKS080B4I  |       |          |       |                            |     |          |       |

### Note:

<sup>\*1</sup> Calculation based on testing method of the Japan Electrical Manufacturers' Association standard. (JEMI467)

<sup>\*2</sup> Humidification amount changes in accordance with indoor and outdoor temperature and humidity.

Measurement condition: 20°C in temperature, 30% in humidity. (JEMI426)

<sup>\*3</sup> Verified by test method based on Japan Electrical Manufacturers' Association Standard JEMI467.

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.

### 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.

### Main Function:





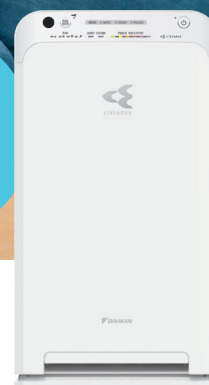
# MC55XVMM



## Capacity Guide

- Air purifying only: Up to 41m<sup>2</sup> (441 sq ft)<sup>\*1</sup>
- Maximum airflow rate: 5.5m<sup>3</sup>/min
- Dimensions: 270mm(W)x270mm(D)x500mm(H)

**NEW**



## Specifications

|                                    |                      |                 |  |     |          |       |
|------------------------------------|----------------------|-----------------|--|-----|----------|-------|
| Colour                             |                      |                 | White  |     |          |       |
| Mode                               |                      |                 | Air purifying operation  |     |          |       |
| Applicable room area <sup>*1</sup> | Air purification     | m <sup>2</sup>  | 41<br>(13.2m <sup>2</sup> purified in approx. 11 min.)   |     |          |       |
| Power supply                       |                      |                 | 1 Phase, 220 – 240/220 – 230V, 50/60Hz   |     |          |       |
| Plug shape                         |                      |                 | C type   |     |          |       |
| Mode                               |                      |                 | Quiet  | Low | Standard | Turbo |
| Airflow rate                       | m <sup>3</sup> /min. |                 | 1.1  | 2.0 | 3.2      | 5.5   |
| Power consumption                  | W                    |                 | 8  | 10  | 15       | 37    |
| Sound pressure level               | dB                   |                 | 19   | 29  | 39       | 53    |
| Dimensions                         | mm                   |                 | H500 X W270 X D270   |     |          |       |
| Weight                             | kg                   |                 | 6.8  |     |          |       |
| Dust collection filter             |                      |                 | Electrostatic HEPA filter  |     |          |       |
| Optional accessories               | Replacement filter   | Dust collection | KAFP080B4E (1 sheet)<br>(Purchase of new filters is needed after about 10 years) <sup>*2</sup> |     |          |       |

### Note:

<sup>\*1</sup> Calculation based on testing method of the Japan Electrical Manufacturers' Association standard. (JEM1467)

<sup>\*2</sup> 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.

### 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.

## Main Function:







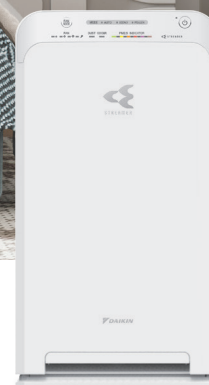
# MC40XVMM



## Capacity Guide

- Air purifying only: Up to 31m<sup>2</sup> (333 sq ft) <sup>1</sup>
- Maximum airflow rate: 4.0m<sup>3</sup>/min
- Dimensions: 270mm(W)x270mm(D)x500mm(H)

**NEW**



## Specifications

|                                   |                      |                 |   |     |          |       |
|-----------------------------------|----------------------|-----------------|---|-----|----------|-------|
| Colour                            |                      |                 | White   |     |          |       |
| Mode                              |                      |                 | Air purifying operation   |     |          |       |
| Applicable room area <sup>1</sup> | Air purification     | m <sup>2</sup>  | 31<br>(13.2m <sup>2</sup> purified in approx. 15 min.)  |     |          |       |
| Power supply                      |                      |                 | 1 Phase, 220 – 240/220–230V, 50/60Hz  |     |          |       |
| Plug shape                        |                      |                 | C type  |     |          |       |
| Mode                              |                      |                 | Quiet   | Low | Standard | Turbo |
| Airflow rate                      | m <sup>3</sup> /min. |                 | 1.1   | 1.8 | 2.8      | 4.0   |
| Power consumption                 | W                    |                 | 7   | 9   | 13       | 23    |
| Sound pressure level              | dB                   |                 | 19  | 27  | 36       | 49    |
| Dimensions                        | mm                   |                 | H500 X W270 X D270  |     |          |       |
| Weight                            | kg                   |                 | 6.8   |     |          |       |
| Dust collection filter            |                      |                 | Electrostatic HEPA filter   |     |          |       |
| Optional accessories              | Replacement filter   | Dust collection | KAFP080B4E (1 sheet)<br>(Purchase of new filters is needed after about 10 years) <sup>2</sup> |     |          |       |

### Note:

<sup>1</sup> Calculation based on testing method of the Japan Electrical Manufacturers' Association standard. (JEMI467)

<sup>2</sup> Verified by test method based on Japan Electrical Manufacturers' Association Standard JEMI467.

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.

### 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.

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If you have a health concern or are not feeling well, please consult a health care professional.

## Main Function:



Streamer



PM2.5  
Sensor



3-directional  
inlets



Deodorising  
filter



Electrostatic  
HEPA filter






Compact  
design



Quiet

# Functions

|  | <br>MCK55UVMM | <b>NEW</b><br><br>MC55XVMM | <b>NEW</b><br><br>MC40XVMM |
|--|--|--|---|
| Humidification                           | ●  | —  | —   |
| Temperature and Humidity Sensors         | ●  | —  | —   |
| Dust (PM2.5/dust) and Odour Sensor Lamps | ●  | ●  | ●   |
| Streamer Discharge                       | ●  | ●  | ●   |
| Active Plasma Ion                        | ●  | ●  | —   |
| Electrostatic HEPA filter                | ●  | ●  | ●   |
| Deodorising filter                       | ●  | ●  | ●   |
| Moist mode                               | ●  | —  | —   |
| Econo mode                               | ●  | ●  | ●   |
| Auto Fan mode                            | ●  | ●  | ●   |
| Anti-Pollen mode                         | ●  | ●  | ●   |
| Turbo mode                               | ●  | ●  | ●   |
| Child Proof Lock                         | ●  | ●  | —   |
| Brightness Adjustment                    | ●  | ●  | ●   |
| Auto-Restart after power failure         | ●  | ●  | ●   |
| Stabilizer Free                          | ●  | ●  | ●   |



# Functions

- **Temperature And Humidity Sensors**

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

- **Dust (Pm2.5/dust) And Odour Sensor Lamp**

"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.

- **Streamer Discharge**

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

- **Active Plasma Ion**

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

- **Electrostatic HEPA Filter**

There is a high-performance filter that catches 99.97% of 0.3µm fine particles and requires no changing for 10 years.

- **Deodorising Filter**

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

- **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.

- **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.

- **Anti-Pollen Mode**

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

- **Turbo Mode**

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.

- **Child Proof Lock**

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

- **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.

- **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.

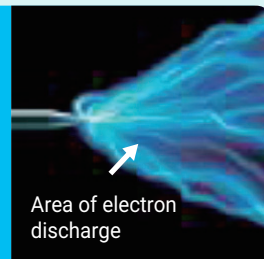


# Daikin's Streamer Technology

"Streamer Discharge" is a type of plasma discharge which generates high speed electrons that combine with oxygen and nitrogen in the air and turn into active species with strong oxidative decomposition power and thereby eliminate allergens such as mould, mites (droppings and dead mites), and pollen, and hazardous chemical substances such as formaldehyde. Compared to standard plasma discharge (glow discharge), its speed of oxidative decomposition is over 1000 times greater with the same electrical power.

The decomposition power is comparable to thermal energy of about 100,000°C.\*1

**1,000**  
Times Faster  
than ordinary  
plasma electric discharge

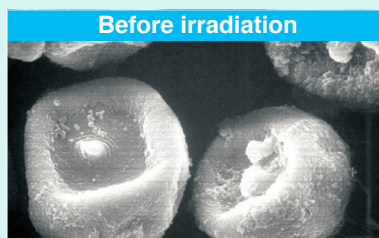


Note:

\*1 Comparison of oxidation decomposition.  
This does not mean temperature will become high.

These are effects in a Streamer test space and not verification results in an actual operation space.

**Streamer decomposes and eliminates allergens such as pollen, mould, and mites (droppings and dead mites) \*2 \*3**

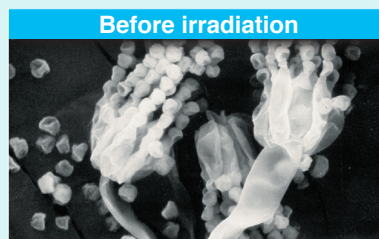


Before irradiation

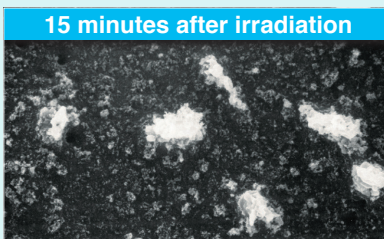


15 minutes after irradiation

Proved with 13 pollen based allergens including cedar pollen and cypress pollen



Before irradiation



15 minutes after irradiation

Proved with 6 fungal allergens including Alternaria and Eurotium

Pollen, mould, and mites (dead mites) were placed on the electrode of the Streamer Discharge unit and then photographed through an electron microscope after being irradiated with Streamer Discharge for 15 minutes.  
\*Joint research with Wakayama Medical University\*

Decompose And  
Eliminate Pollen

Eliminated more than  
**99.6%**\*2  
in 2 hours!

Decompose And  
Eliminate Mould

Eliminated more than  
**99.9%**\*3  
in 24 hours!

Decompose And  
Eliminate Allergens  
Such As Mite Droppings  
And Dead Mites

Eliminated more than  
**99.61%**\*2  
in 24 hours!

Note:

\*2 Testing organization: Wakayama Medical University.

Test conditions: Irradiated allergens with Streamer and checked decomposition of allergen proteins by either the ELISA method, electrophoresis or electron microscopy.

Test result: 99.6% eliminated. (Works on objects caught by the filter)

\*3 Measuring method: antibacterial test/mould elimination test

Testing organization: Japan Food Research Laboratories.

Test number: 204041635-001.

Test result: 99.9% eliminated.

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.

## A clean technology that's recognised by public institutions\* in Japan and abroad.

\* Following experiments were practised by third parties based on Daikin industries, Ltd's request.

| Target of experiment          |                               | ★ Public institutions (Testing organization)                              | Test method                  |
|-------------------------------|-------------------------------|---|------------------------------|
| Virus                         |                               | National Institute of Hygiene and Epidemiology (Vietnam)                  | CPE and TCID50               |
|                               |                               | Kitasato Research Center of Environmental Sciences                        | CPE and TCID50               |
|                               |                               | Kobe University Graduate School   | ELISA method                 |
|                               |                               | Yamagata University   | Scanning electron microscope |
| Bacteria                      |                               | Japan Food Research Laboratories  | PCR method                   |
|                               |                               | The Jikei University  | CFU                          |
| Mould                         |                               | Japan Food Research Laboratories  | Pour plate culture method    |
| Allergens                     | Pollen based allergens        | Wakayama Medical University   | ELISA method                 |
|                               | Allergens from animate beings |   |                              |
|                               | Fungal allergens              |   |                              |
|                               | Flour                         |   |                              |
| Hazardous chemical substances | Adjuvant (DEP)                | Yamagata University   | ELISA method                 |
|                               | Adjuvant (VOC)                | Tohoku Bunka Gakuen University  | Damping technique            |
|                               | Adjuvant inhibiting effect    | Wakayama Medical University, National institute for Environmental Studies | ELISA method                 |
|                               | Formaldehyde                  | Tohoku Bunka Gakuen University  | Constant generation method   |

### Viruses and bacteria that have been proven to be deactivated by Streamer Technology

- Influenza virus (type A, H1N1)
- Highly virulent avian influenza virus (type A, H5N1)
- Bacillus coli, O-157
- Staphylococcus aureus
- Tuberculosis bacteria
- Norovirus
- Pseudomonas aeruginosa
- Toxins (enterotoxins)

### Allergens that have been proven to be decomposed by Streamer Technology

- Fungal allergens: sooty moulds, aspergillus, eurotium, aspergillus niger, fusarium, penicillium
- Pollen based allergens: cedar pollen, alder pollen, birch pollen, Japanese cypress pollen, pencil cedar pollen, bald cypress pollen, mugwort pollen, orchard grass pollen, ragweed pollen, sweet vernal grass pollen, timothy grass pollen, fleawort pollen, Japanese beech
- Allergens from animate beings: house dust mite [dermatophagoides pteronyssinus] (droppings and dead mites), house dustmite [dermatophagoides farinae] (droppings and dead mites), American cockroach (droppings), German cockroach (droppings), flea (droppings), dog epidermis (dander), cat epidermis (dander), hamster epidermis (dander)
- Other: wheat flour

### Hazardous chemical substances that have been proven to be removed by Streamer Technology

- Formaldehyde<sup>\*4</sup>
- Diesel exhaust particulates (DEP)
- Hazardous chemical substances in exhaust gas: NOx, tetrachlorethylene, benzene, trichloroethylene, dichloroethane, dichloromethane, chloroform
- VOC type hazardous chemical substances: iso-butanol, hexane, styrene, nonanoic acid, trimethyl benzene, xylene, naphthalene, ethyl benzene, toluene, ethyl acetate

Note:

\*4 Test method: constant generation method

Test room: 22 to 24 m<sup>3</sup>

Temperature: 23 ±3°C

Humidity: 50 ±20%

Ventilation condition: When concentration of 0.2 ppm is continually emanated, a removal capacity of 0.08 ppm is maintained at 36 m<sup>3</sup>/h, which is within the guideline of the Ministry of Health, Labour and Welfare (Japan). (This equates to the ventilation capacity of an approximately 65 m<sup>3</sup> room.)

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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# Experimental Results of Daikin Streamer Technology

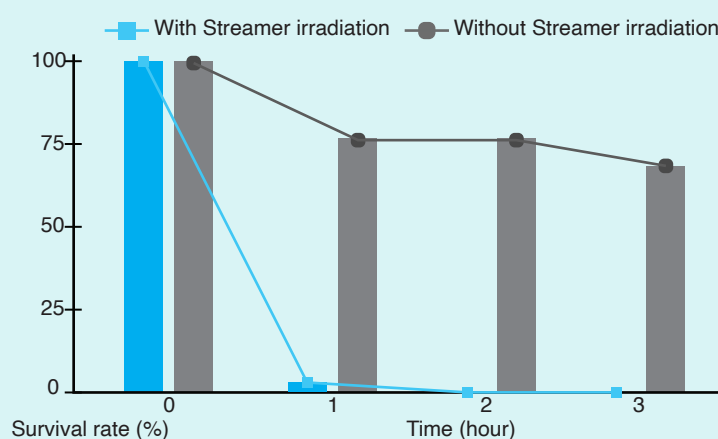
## Demonstration of the inactivating effects against the novel Coronavirus (SARS-CoV-2) by Streamer technology 99.9% inactivation after 3 hours

### Experimental result

Daikin in collaboration with a group of research professors from the Department of Microbiology in the Faculty of Veterinary Medicine from the Okayama University of Science, led by Professor Shigeru Morikawa, has demonstrated that the Streamer technology has inactivating effects against the novel Coronavirus (SARS-CoV-2).

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.



Source: "Study report on the inactivation effect of plasma ion generator (Daikin Streamer) on SARS-CoV-2" written by Shigeru Morikawa, Department of Veterinary Medicine, Microbiology Course, Okayama University of Science.

As a result of the test, SARS-CoV-2 was inactivated by 93.7% after 1 hour of Streamer irradiation. After 2 hours, it was inactivated by more than 99.8%, reaching more than 99.9% after 3 hours of Streamer irradiation.

| Streamer irradiation time                        | 1 hour | 2 hours | 3 hours |
|--|--------|---------|---------|
| Novel Coronavirus (SARS-CoV-2) inactivation rate | 93.6%  | 99.7%   | 99.9%   |

\* 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.

### Testing organization

Professor Shigeru Morikawa's led research group at the Department of Microbiology in the Faculty of Veterinary Medicine from the Okayama University of Science

### Test method

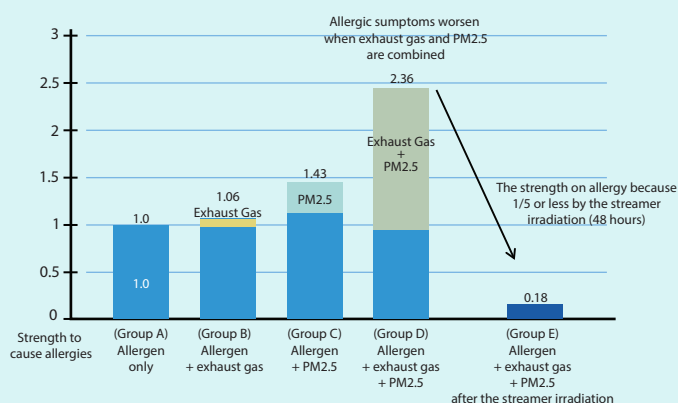
Two acrylic boxes of about 31L were mounted inside a safety cabinet. One box was equipped with a Streamer discharge device and the other box was not. A see-saw rocking motion shaker was placed in each box, and a six-well plate was placed on top of the motion shaker. Virus solution measuring 0.5 ml was put into each well of the plates, and Streamer irradiation was performed while agitating the solution using the motion shaker (approximately 12 times per minute). Virus solution was collected from two wells every hour for three hours, and viral load was measured. The viral load of SARS-CoV-2 was quantified by the TCID50 method using Vero E6 / TMPRSS2 cells.

\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)

# Simultaneous decomposition of pollen + exhaust gas + PM2.5 which worsens hay fever.

It was found that the streamer technology decomposes cedar pollen, and at the same time, it also decomposes exhaust gas (diesel exhaust particles) and PM2.5 that worsen hay fever, dramatically reducing the intensity of allergic reactions.

**Pollen + exhaust gas + PM2.5 are decomposed at the same time, reducing the allergenic strength by 92.4%**



As a result of the test, the allergenic strength was 2.36 times higher in the D group, in which exhaust gas and PM2.5 were added to the allergen, than in the A group containing only the allergen. It is speculated that the simultaneous administration of a mixture of exhaust gas and PM2.5 enhanced the immune reaction that causes allergic symptoms such as hay fever. On the other hand, the allergenic strength of group E, which was exposed to the Streamer for 48 hours, was reduced by 92.4% compared to group D.

\* This is the demonstration result using a streamer discharge device for testing.

The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Testing organization

Demonstrated at Yamagata University under the supervision of Professor Shirasawa, Tohoku Bunka Gakuen University

## Test method

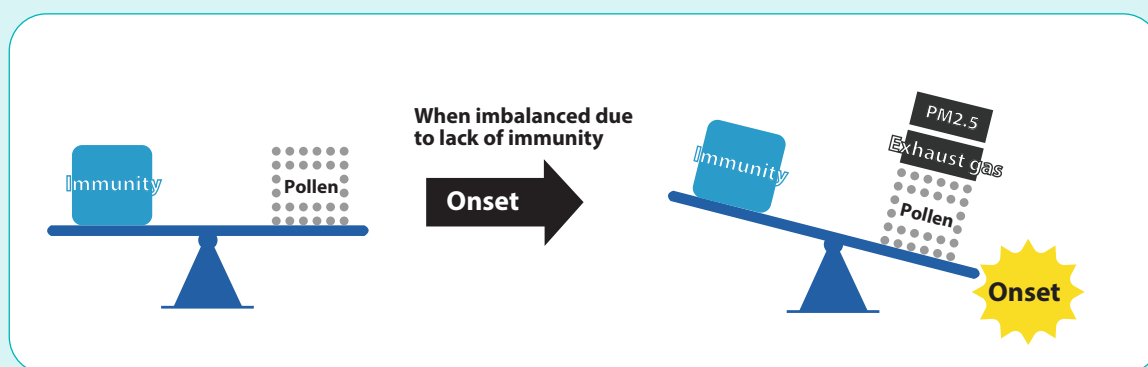
A comparative experiment was performed on 3 groups of mice. (Group A) allergen, (B group) allergen + exhaust gas, (C group) allergen + PM2.5, (D group) allergen + exhaust gas + PM2.5, (Group E) allergen + exhaust gas + PM2.5 after the Streamer irradiation, was administered respectively. Administration to mice was continued every 2 weeks, and 8 weeks later, IgE antibody\*1 concentration in the blood of the mice was measured. We used ovalbumin as the allergen, which is a typical substance used in immunity experiments as an alternative to pollen.

\*1: When a reaction with an allergen occurs in the body, an IgE antibody that can bind only to the allergen is produced, and when the reentered allergen reacts with the IgE antibody, various allergic symptoms are caused. Since it is detected only in a very small amount in healthy people, it is generally used for immunological tests.

## Hay fever development

Adjuvant substances that worsen allergic symptoms may adhere to pollen, which may upset the balance that was previously maintained and increase the risk of developing hay fever.

- The Image of the hay fever development



\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)



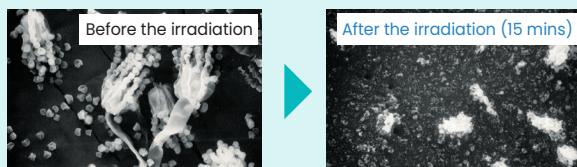
# Decomposes molds and mites (feces and carcasses). Suppresses the causes of allergies.

Decomposes molds and mites (feces and carcasses). Suppresses the causes of allergies.

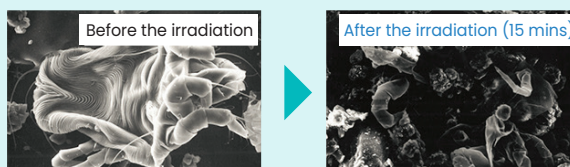
\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Demonstration of the decomposition against molds and mites (carcasses)

The picture of molds



The picture of mites (carcasses)



## Testing organization

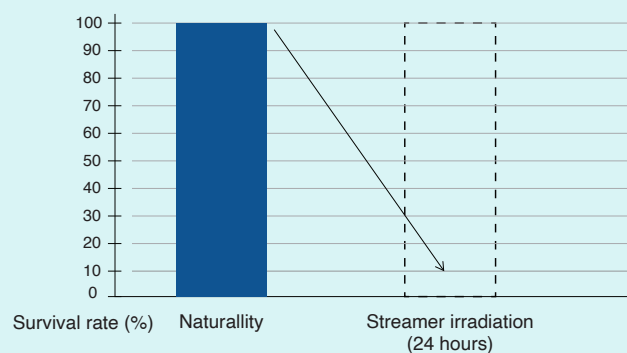
Joint research with Wakayama Medical University.

## Test method

"Mold" and "mite (carcass)" were placed on the electrodes of the Streamer discharge unit, and after being exposed to the Streamer discharge for 15 minutes, they were photographed with an electron microscope.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Demonstration of the suppression against molds



## Testing organization

Japan Food Research Laboratories

## Test method

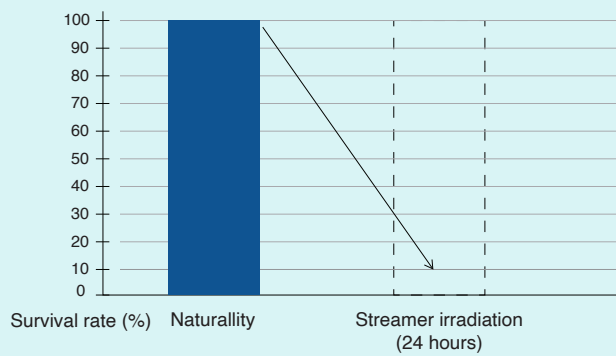
A test piece in which the bacterial solution was cultured was placed in a container, the test Streamer generator was operated, and the viable cell count was measured after 24 hours.

As a result of the experiment, it was confirmed that 99.9% of molds was suppressed in 24 hours by the Streamer irradiation.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)

### Demonstration of the suppression against allergic effects of mites (feces and carcasses)



## Testing organization

Wakayama Medical University.

## Test method

Allergen analysis was confirmed by ELISA method using a test Streamer generator.

As a result of the experiment, it was confirmed that 99.6% of allergic effects of mites (feces and carcasses) was suppressed in 24 hours by the Streamer irradiation.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Relationship between molds, mites and allergies

Since both molds and mites prefer a moist environment, they breed when the humidity is high. Moreover, because the mites in the room are fed by molds, mites are more likely to occur in places where molds breed. When these molds and the feces/carcasses of mites touch human's skin or be inhaled, they cause various allergic symptoms such as atopic dermatitis, asthma, rhinitis and itchy eyes.

\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)

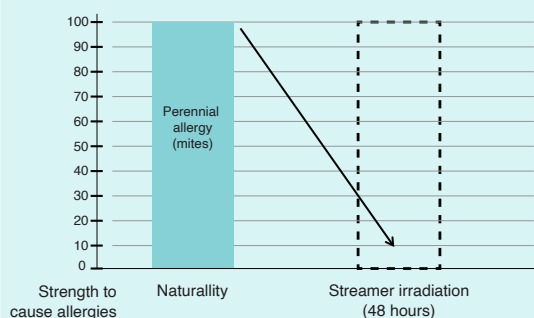


# Decomposes house dust (mite's feces and carcasses) that causes perennial allergic symptoms

It has been confirmed that the Streamer technology decomposes house dust (mite's feces and carcasses) that causes perennial allergies. It was also found that when year-round allergy and seasonal allergy are combined, allergic symptoms may worsen or develop, but these causative substances are also decomposed at the same time.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Suppresses the deterioration of allergic symptoms caused by mites (feces and carcasses)



As a result of the test, it was confirmed that allergic symptoms caused by mites (feces and carcasses) were suppressed 99% or more in 48 hours by the Streamer irradiation.

This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

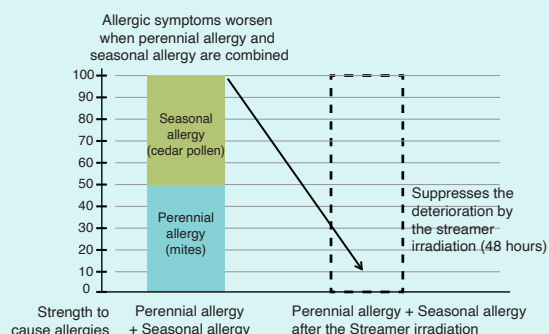
## Testing organization

Demonstrated at Yamagata University under the supervision of Professor Shirasawa, Tohoku Bunka Gakuen University

## Test method

As a typical causative agent of perennial allergy, the Streamer was irradiated to house dust mite (*Dermatophagoides pteronyssinus*) at different times. The inactivation rate (the rate of loss of allergic ability) is measured by the allergen activity before and after the irradiation by the ELISA method (a method of detecting and quantifying the ability of an allergen to bind to an antibody by using an enzymatic reaction).

## Suppresses the deterioration of allergic symptoms caused by mites (feces and carcasses) + cedar pollen



As a result of the test, it was confirmed that the 99% or more of the deterioration of allergic symptoms due to mites (feces and carcasses) + cedar pollen was suppressed in 48 hours after the Streamer irradiation.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

## Testing organization

Demonstrated at Yamagata University under the supervision of Professor Shirasawa, Tohoku Bunka Gakuen University

## Test method

The house dust mite (*Dermatophagoides pteronyssinus*) as a typical causative agent of perennial allergy, and the cedar pollen antigen as a typical causative agent of seasonal allergy were irradiated with the Streamer at different times. The inactivation rate (the rate of losing the ability to cause allergies) was measured by the allergen activity before and after the irradiation by the ELISA method (a method of detecting and quantifying the power of an allergen to bind to an antibody using an enzymatic reaction).



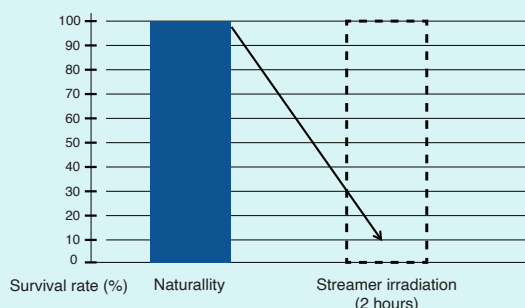
\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)

## Decomposes and suppresses Moraxella bacterium, which causes the laundry's damp odour.

It is known that the bacteria causing the laundry's damp odour that occurs when drying clothes in the room are Moraxella bacteria. It was confirmed that the Streamer technology decomposes and suppresses the bacteria that cause this damp odour.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

### Demonstration of the suppression against Moraxella bacterium Bacillus (causative agent of the laundry's damp odour)



As a result of the test, it was confirmed that Moraxella bacterium (causative agent of the laundry's damp odour) was decomposed and suppressed by 99.8% in 2 hours after the Streamer irradiation.

\* This is the demonstration result using a streamer discharge device for testing.  
The effect of products equipped with Streamer technology or the effect in actual use environment may differ.

### Testing organization

Japan Food Research Laboratories

### Test method

A sample containing 2 ml of the test bacterial solution in a petri dish (φ60 mm) was left to stand in the streamer generator. The suppression effect was obtained from the results of measuring the number of bacteria after 1, 2, 3, 4, and 6 hours. The Streamer discharge device and test bacteria were provided by Daikin. The number of measurements was 3 times.



## To suppress the laundry's damp odour, it is ideal to dry it within 5 hours!

The most important thing to prevent the generation of the damp odour is the "time from the end of washing to the drying". Moraxella bacteria explosively grows after about 5 hours, so if you can dry it within 5 hours, you can suppress the damp odour to some extent. What we would like to keep in mind here is the trick of drying clothes in the room. First, it is important to hang it in a well-ventilated place. It is assumed that many people hang it on the curtain rail, but it is the worst place because it is easy for moisture to accumulate at the window and there are many germs and, we also devised how to dry. You can quickly dry the clothes by hanging the long one on the outermost side of the clothes hanger, the "arch drying" that hangs the short one in the middle, or the "ghost drying" that puts only the sleeve part of the long-sleeved shirt on another hanger... Considering the growth of bacteria, it is recommended to use a dehumidifier or air conditioner equipped with an air cleaning function. If you're worried about odour, please give it a try, as the laundry odour can be suppressed with a little effort like this.

\* (This result was obtained by discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.)



# Daikin's Active Plasma Ion Technology

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.

### Assumed mechanism of elimination

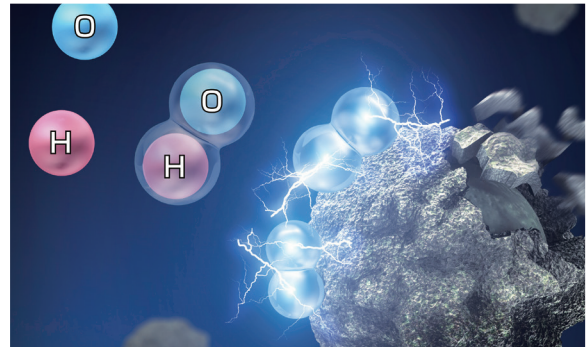
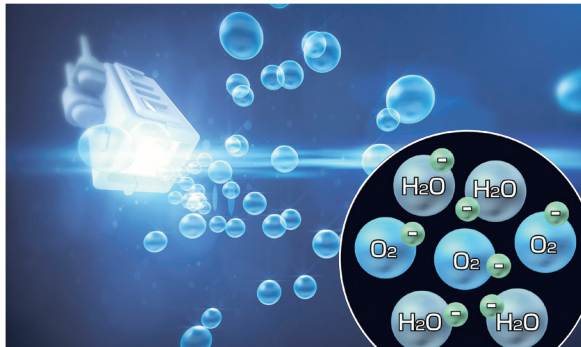


Image is for illustrative purposes

Daikin's plasma ions have been proved to be 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

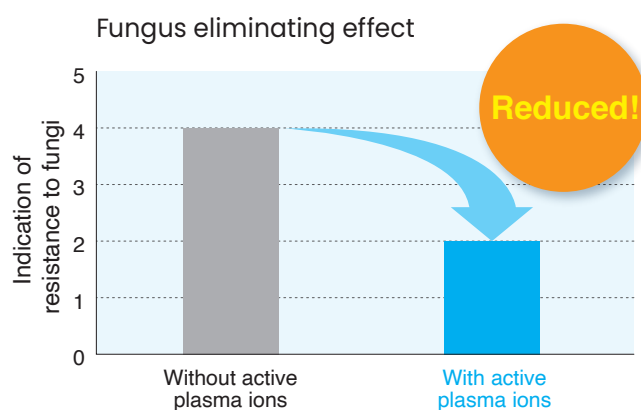
**Concentration: 25,000 ions/cm<sup>3</sup> \*1**

Note:

\*1 The number of ions per 1cm<sup>3</sup> of air blown into the atmosphere measured near the air outlet during operation with maximum airflow.  
Test conditions: temperature 25°C, humidity 50%

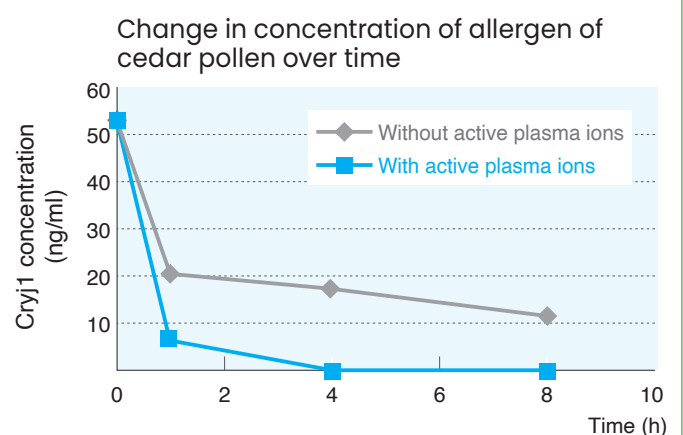
These are effects in an active plasma ion test space and not verification results in an actual operation space.

### Reduction of attached fungi



Test name: test of resistance to fungi.  
Testing organization: Japan Spinners Inspecting Foundation.  
Test number: 019190-1.  
Test result: After cultivation in a 9L container according to Japanese Industrial Standard JISZ2911, generation of fungi was reduced to less than half.

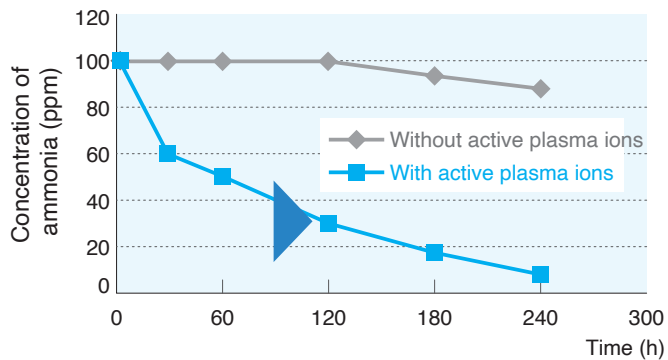
### Reduction of allergens



Test name: Test of reduction of allergen of cedar pollen.  
Testing organization: ITEA/Institute of Tokyo Environmental Allergy.  
Test number: IIMRPTMAY031.  
Test result: Allergen of cedar pollen in a 45L container was reduced by more than 95.5% in about 8 hours.

## Deodorisation

Deodorisation of ammonia



Test name: Deodorisation test.

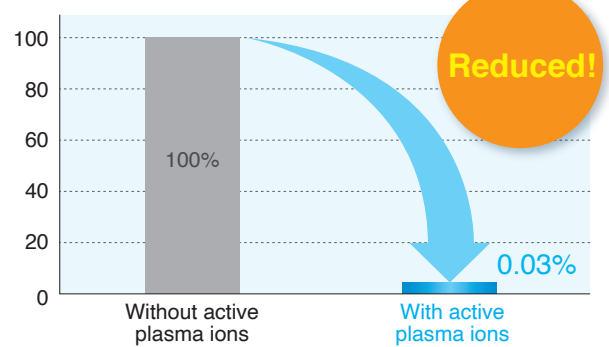
Testing organization: Japan Spinners' Inspecting Foundation.

Test number: 200097-1.

Test result: In a 5L container, ammonia was reduced by 92.3% in about 240 minutes.

## Reduction of attached bacteria

Effect to remove attached bacteria



Test name: antibacterial test.

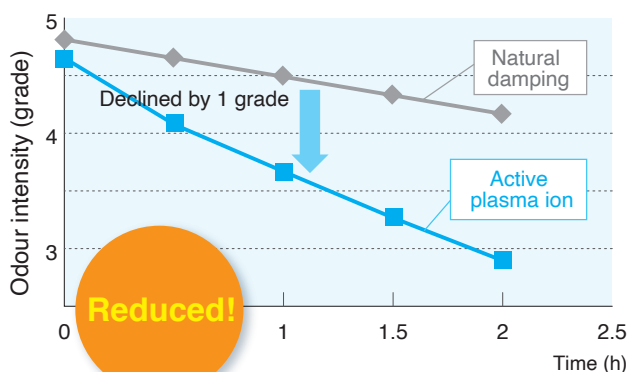
Testing organization: Japan Spinners' Inspecting Foundation.

Test number: 028669.

Test result: In a 9L container, reduced by more than 99.97% in 24 hours

## Removal of attached odour

Effect to remove attached odour



Test method: In a test chamber of a size of about 6 tatami mats, evaluated deodorising effect on a piece of cloth to which tobacco odour components were attached by 6-grade odour intensity indication method.

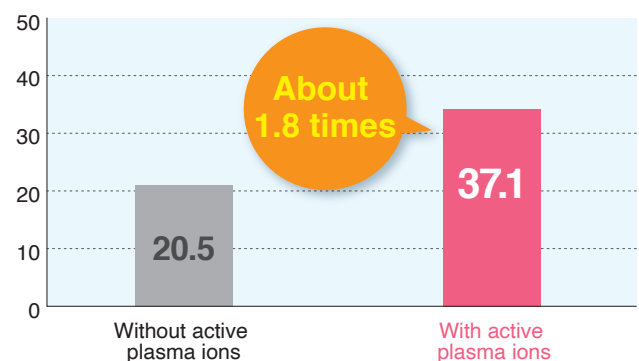
Test result: Odour intensity declined by 1 grade in about 1 hour (tested by Daikin).\*

A one-grade decline of odour intensity means a 90% reduction of odour.

\* The deodorisation effect varies depending on the ambient environment (temperature and humidity), operation time, odour, and the type of fiber.

## Increase of skin moisture

Change in skin moisture (difference in integrated skin moisture of 120 minutes)



Organization: Soiken (Comprehensive Medical Science Laboratory).

Number: MII-2010-10.

Method: Measured skin moisture of 8 healthy women prone to skin dryness in a room of about 6 tatami mats under conditions with and without active plasma ions.

Result: Skin moisture increased by about 1.8 times in about 120 minutes.

\* Actual effect will vary depending on room conditions and method of use.



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