DAIKIN STREAMER AIR PURIFIER

MCK55TVM6
Streamer Air Purifier
Humidifying 55 type

MC55UVM6
MC40UVM6
Streamer Air Purifier
55/40 type

MC30VVM-H
Standard Air Purifier
30 type

TOP AIR PURIFIER IN SINGAPORE
**Electrostatic HEPA Filter**

**FEATURES HIGH-PERFORMANCE FILTER TO CATCH FINE PARTICLES OF DUST**

Removes 99.97% of fine particles of 0.3µm *1

Note:
*1 This 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!

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Comparison between Electrostatic HEPA Filter and Non-electrostatic Filter

<table>
<thead>
<tr>
<th>Electrostatic HEPA Filter</th>
<th>Non-Electrostatic Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter fiber itself is charged with static electricity, and collects particles efficiently. Does not clog easily because of low pressure loss.</td>
<td>Because it catches particles relying only on mesh size, it is necessary to make mesh finer, making it easy to be clogged.</td>
</tr>
</tbody>
</table>

Low pressure loss

High pressure loss

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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 Suction and Reduced Operation Sound**

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

- **MC55 / 40 models**
- Arranged vertically
- Pre-filter
- Deodorising filter
- Dust collection filter

**POWERFUL SUCTION IN 3 DIRECTIONS**

Effectively takes in dust over a wide area

- **Common design**
- Arranged horizontally
- Dust collection filter
- Deodorising filter

**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.

**Note:**

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

Removes 99.97% of fine particles of 0.3/μm

**FEATURES HIGH-PERFORMANCE FILTER TO CATCH FINE PARTICLES OF DUST**

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

- 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**

- **High pressure loss**
  Electrostatic HEPA Filter

- **Low pressure loss**
  Non-Electrostatic Filter

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The Three C’s of Streamer

THE STREAMER SYMBOL CONSISTS OF THREE C’S

1. Clash
   - Pre-filter: Catches large particles of dust
     - No need to change
   - Deodorising filter: Absorbs odour
     - No need to change
   - Active plasma ion generation unit
     - No maintenance or exchange needed

2. Clean
   - Dust collection filter
     - No maintenance or exchange needed
     - Removes 99.97% of fine particles of dust
     - (Electrostatic HEPA filter)
   - Humidifying filter
     - No need to change for 10 seasons
     - Double-layer filter for humidification

3. Cycle
   - Streamer unit
     - No maintenance or exchange needed
   - Water wheel
     - Humidifying tray
     - Humidifying water
     - Odour
     - Streamer unit
     - Decomposes harmful gases and floating substances
     - Streamer irradiation
     - Regeneration

Unique vertical structure

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

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About the dust collection and deodorising capacity of air purifiers:

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

THE STREAMER SYMBOL CONSISTS OF THREE C’S

Arranged vertically

Unique vertical structure

Clean

(MCK55 model only)

dust

Pre-filter

Absorbs odour

Deodorising filter

Humidification

Double-layer filter for

Humidifying filter

No need to change for 10 seasons

No need to change

No need to change

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

(MCK55 and MC55 models only.)

Catches fine particles of dust

(Electrostatic HEPA filter)

Dust collection filter

Active plasma ion

No maintenance or exchange needed

No maintenance or exchange needed

Removes 99.97% of fine particles of 0.3/µm

TECHNOLOGY

TECHNOLOGY

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).*

Clean

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

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.

Test number: 15044988001-0201. 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 m². 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 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).

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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.
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/cm³ **¹**

Note:

*¹ The number of ions per 1 cm³ 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 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

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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**

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.

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**Pollutants that can be collected and deodorised by filter**

- House dust
- Pollen (cedar, etc.)
- Yellow dust
- City exhaust gas (trichloroethylene, etc.)
- NOx
- VOC-type chemical substances
- Dog epidermis (dander)
- Cat epidermis (dander)
- Hamster epidermis (dander)
- Ammonia
- Garbage odour
- Cooking odour
- Cigarette smoke odour
- PM2.5
- Moulds
- Pet hair
3 Steps to decompose harmful substances

1 Powerful Suction
Takes in dust over a wide area from 3 directions.

2 Effective Capture Of Pollutants
Catches dust and pollutants effectively with an electrostatic HEPA filter.

3 Decomposition
Uses Daikin’s Streamer technology to decompose harmful substances caught on the filter by oxidation. 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/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).

### Pollutants that can be reduced
- Indoor air pollutants (formaldehyde, etc.)
- Diesel exhaust particulates (DEP)
- Cockroaches (droppings)
- House dust mites (droppings and dead mites)
- Wheat flour
- Body odour
- Mould odour
- Floating viruses
- Attached viruses
- Floating mould
- Attached bacteria
- Attached odour

Effect after nine hours in a space of about 200L.
**New Stylish and Compact**

**FLEXIBLE CHOICE OF WHERE TO PLACE THE UNIT**

![MCK55 model and MC55 / 40 models](image)

- MCK55 model
- MC55 / 40 models

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

**Only 27cm width & depth**

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**Standard Air Purifier 30 type**

Entry model with simple and compact design

<table>
<thead>
<tr>
<th>Dust collection</th>
<th>Deodorisation</th>
</tr>
</thead>
</table>

**Air purification**

- **Airflow**: 3.0 m³/min.
- **Applicable room area**: ~21.5 m²
- **Approximate room cleaning time**: 13.2 m²/20min.

- This model has no humidifying function.
- Capacity during turbo mode.

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**PM2.5 SENSOR AND AIR QUALITY INDICATOR**

Equipped with PM2.5 sensor enables quick detection of ultrafine particles, easy display and smart operation.

- **DUST indicator**: Large house dust (approx. 2.5 μm and above)
- **PM2.5 indicator**: Ultrafine particles (approx. 2.5 μm and smaller)

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**3-STAGE FILTRATION SYSTEM**

3-stage filtration system of pre-filter, deodorising filter and dust collection filter (Electrostatic HEPA filter) ensures thorough and rapid purification.

**Note:**

- *1 Calculated by test method based on Japan Electrical Manufacturers’ Association Standard JEM1467.
- Operation during turbo mode has been approximated.
Installation Images
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.

**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

**SELECT THE TARGET HUMIDITY FROM 3 LEVELS**

(The target humidity is a rough estimation.)

<table>
<thead>
<tr>
<th>Humidity</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>40%</td>
<td>50%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INDICATES HUMIDITY OF THE ROOM**

**ELIMINATES BACTERIA ON THE HUMIDIFYING FILTER**

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**

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.

**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 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).
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.

**Features for clean humidification**

- 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.

(The target humidity is a rough estimation.)

- The humidifying tray is equipped with a silver ion agent.
- The humidifying tray needs regular maintenance (once in about a week).
- This is not a verification result in an actual operation environment.

**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.

- **Low Standard**
  - Protects the skin, the throat and the nostril from dryness.
- **High Standard**
  - Protects against viruses by maintaining appropriate humidity of the room.

**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.

- “PM2.5” refers to general fine particulate matters sized 2.5μm 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 32m² and not in an actual operation space.
- Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series.

**Note:**

*1 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 32m² within 90 minutes. (Converted to a value in a test space of 32m³)

**BENEFIT OF HUMIDIFICATION**

**SELECT THE TARGET HUMIDITY FROM 3 LEVELS**

- Indicates humidity of the room.

**ELIMINATES BACTERIA ON THE HUMIDIFYING FILTER *1**

**REDUCES BACTERIA IN HUMIDIFYING WATER BY STREAMER *2**

**Easy water replenishment in a wash basin**

19cm

**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)

**PM2.5**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>House dust (large particle)</td>
<td>House dust (small particle) (2.5μm or smaller)</td>
<td></td>
</tr>
</tbody>
</table>

**DUST ODOUR PM2.5 INDICATOR**

- House dust (large particle)
- House dust (small particle) (2.5μm or smaller)

<table>
<thead>
<tr>
<th>Odour (concentration)</th>
</tr>
</thead>
</table>

(MC55 / 40 models)

**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.

(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.
# Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Standard Air Purifier 30 type</th>
<th>Streamer Air Purifier 40 type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC30VVM-H</td>
<td></td>
<td>MC40UVM6</td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
<td>White</td>
</tr>
<tr>
<td>Power supply</td>
<td>1 Phase, 220–240/220–230V, 50/60Hz</td>
<td>1 Phase, 220–240/220–230V, 50/60Hz</td>
</tr>
<tr>
<td>Mode</td>
<td>Air purifying operation</td>
<td>C type</td>
</tr>
<tr>
<td>Airflow rate (m³/min)</td>
<td>1.0 1.5 2.0 3.0</td>
<td>Quiet Low Standard Turbo</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>5.5 6 11 16</td>
<td>1.1 1.8 2.8 4.0</td>
</tr>
<tr>
<td>Sound pressure level (dB)</td>
<td>19 29 33 44</td>
<td>19 27 36 49</td>
</tr>
<tr>
<td>Humidification (mL/h)</td>
<td>Electrostatic HEPA filter</td>
<td>Electrostatic HEPA filter</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>H455 × W280 × D189</td>
<td>H500 × W270 × D270</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>5.0</td>
<td>6.8</td>
</tr>
<tr>
<td>Dust collection filter</td>
<td>BAFP001AE (1 sheet) (Purchase of new filters is needed after about 2 years)²</td>
<td>KAFP080B4E (1 sheet) (Purchase of new filters is needed after about 10 years)³</td>
</tr>
<tr>
<td>Humidifying method</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank capacity (litres)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dust collection filter</td>
<td>BAFP001AE (4 sheets) (Purchase of new filters is needed after about 3 months)² (approx. 3 months / sheet X 4 sheets = 1 year)</td>
<td></td>
</tr>
<tr>
<td>Humidifying filter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- * 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 exchange 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.
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>Streamer Air Purifier 55 type</th>
<th>Streamer Air Purifier Humidifying 55 type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC55UVM6</td>
<td>MCK55TVM6</td>
</tr>
<tr>
<td></td>
<td>With wireless remote controller</td>
<td>With wireless remote controller</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Mode</td>
<td>Quiet</td>
<td>Quiet Moose</td>
</tr>
<tr>
<td>Applicable room area</td>
<td>m²</td>
<td>Humidifying operation</td>
</tr>
<tr>
<td>Air purification</td>
<td>m³/min.</td>
<td>41 (13.2m³ purified in approx. 11 min.)</td>
</tr>
<tr>
<td>Air purification + Humidification</td>
<td>mL/h</td>
<td>41 (13.2m³ purified in approx. 11 min.)</td>
</tr>
<tr>
<td>Power supply</td>
<td>1 Phase, 220–240/220–230V, 50/60Hz</td>
<td>Humidifying operation</td>
</tr>
<tr>
<td>Plug shape</td>
<td></td>
<td>1 Phase, 220–240/220–230V, 50/60Hz</td>
</tr>
<tr>
<td>Mode</td>
<td>Quiet</td>
<td>Quiet Moose</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>m³/min.</td>
<td>1.1</td>
</tr>
<tr>
<td>Power consumption</td>
<td>W</td>
<td>2.0</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>dB</td>
<td>3.2</td>
</tr>
<tr>
<td>Humidification</td>
<td>mL/h</td>
<td>5.5</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>19</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>29</td>
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<td>Dust collection filter</td>
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<tr>
<td>Humidifying method</td>
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<tr>
<td>Tank capacity</td>
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<td>19</td>
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<tr>
<td>Optional accessories</td>
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<td>41</td>
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<tr>
<td>Replacement filter</td>
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<tr>
<td>Deodorising</td>
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<td>53</td>
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<tr>
<td>Humidifying</td>
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<td>25</td>
</tr>
<tr>
<td>Country of Origin</td>
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<tr>
<td></td>
<td>China</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>China</td>
<td>500</td>
</tr>
</tbody>
</table>

Note:
* Calculation based on testing method of the Japan Electrical Manufacturers Association standard JEM1467.
* Humidification amount changes in accordance with indoor and outdoor temperature and humidity.
  Measurement condition: 20°C in temperature, 30% in humidity (JEM1426)
* 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

<table>
<thead>
<tr>
<th>Humidification</th>
<th>MC30VVM-H</th>
<th>MC40UVM6</th>
<th>MC55UVM6</th>
<th>MCK55TVM6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Temperature and humidity sensors</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>2 Dust (PM2.5/dust) and odour sensor lamps</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>3 Dust (PM2.5/dust) sensor lamps</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>4 Streamer discharge</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>5 Active plasma ion</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>6 Electrostatic HEPA filter</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>7 Deodorising filter</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>8 Moist mode</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>9 Econo mode</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>10 Auto fan mode</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>11 Anti-pollen mode</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>12 Turbo mode</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>13 Child proof lock</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>14 Brightness adjustment</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>15 Auto-restart after power failure</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
<tr>
<td>16 Stabilizer free</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
<td>![Icon]</td>
</tr>
</tbody>
</table>
1 **Temperature and humidity sensors**
Humidity is detected and shown by an easy-to-understand indicator.

2 **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 are caught on the deodorising filter. Models excluding MC30 model utilize streamer to decompose these odours and adjuvants on the filter.

8 **Moist mode**
Automatic control maintains relatively high humidity that is gentle to the throat and the skin.

9 **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.

11 **Anti-Pollen Mode**
Switching between “standard” and “low” modes to create a gentle turbulence, pollen is caught before it lands on the floor.

12 **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.

13 **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.

15 **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.
“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

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

Works on objects caught by the filter.

<table>
<thead>
<tr>
<th>Before irradiation</th>
<th>15 minutes after irradiation</th>
<th>Before irradiation</th>
<th>15 minutes after irradiation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Decompose and eliminate pollen</th>
<th>Decompose and eliminate mould</th>
<th>Decompose and eliminate allergens such as mite droppings and dead mites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminated more than 99.6% *2 in 2 hours!</td>
<td>Eliminated more than 99.9% *3 in 24 hours!</td>
<td>Eliminated more than 99.61% *2 in 24 hours!</td>
</tr>
</tbody>
</table>

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. (Works on objects caught by the filter)

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.

<table>
<thead>
<tr>
<th>Target of experiment</th>
<th>Public institutions (Testing organization)</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virus</td>
<td>National Institute of Hygiene and Epidemiology (Vietnam)</td>
<td>CPE and TCID50</td>
</tr>
<tr>
<td></td>
<td>Kitasato Research Center of Environmental Sciences</td>
<td>CPE and TCID50</td>
</tr>
<tr>
<td></td>
<td>Kobe University Graduate School</td>
<td>ELISA method</td>
</tr>
<tr>
<td></td>
<td>Yamagata University</td>
<td>Scanning electron microscope</td>
</tr>
<tr>
<td>Bacteria</td>
<td>Japan Food Research Laboratories</td>
<td>PCR method</td>
</tr>
<tr>
<td></td>
<td>The Jikei University</td>
<td>CFU</td>
</tr>
<tr>
<td>Mould</td>
<td>Japan Food Research Laboratories</td>
<td>Pour plate culture method</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allergens</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollen based allergens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allergens from animate beings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fungal allergens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flour</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous chemical substances</th>
<th>Public institutions (Testing organization)</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjuvant (DEP)</td>
<td>Yamagata University</td>
<td>ELISA method</td>
</tr>
<tr>
<td>Adjuvant (VOC)</td>
<td>Tohoku Bunka Gakuen University</td>
<td>Damping technique</td>
</tr>
<tr>
<td>Adjuvant inhibiting effect</td>
<td>Wakayama Medical University, National institute for Environmental Studies</td>
<td>ELISA method</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Tohoku Bunka Gakuen University</td>
<td>Constant generation method</td>
</tr>
</tbody>
</table>

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, feawort pollen, Japanese beech
- Allergens from animate beings: house dust mite [dermatophagoides pteronyssinus] (droppings and dead mites), house dust mite [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
- Diesel exhaust particulates (DEP)
- Hazardous chemical substances in exhaust gas: NOx, tetrachloethylene, 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:
** Test method: constant generation method
- Test room: 22 to 24 m³
- 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 m³/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 m³ 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.

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.
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 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/cm³**

Note:
* 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%

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 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: 11MRPTMAY031.
Test result: Allergen of cedar pollen in a 45L container was reduced by more than 95.5% in about 8 hours.
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**

**Effect to remove attached odour**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Odour intensity (grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>0.5</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2.5</td>
<td>0</td>
</tr>
</tbody>
</table>

- Natural damping
- Declined by 1 grade
- Active plasma ion

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.

**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.

**Deodorisation**

Deodorisation of ammonia

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Concentration of ammonia (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>120</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>120</td>
<td>30</td>
</tr>
<tr>
<td>180</td>
<td>20</td>
</tr>
<tr>
<td>240</td>
<td>10</td>
</tr>
<tr>
<td>300</td>
<td>0</td>
</tr>
</tbody>
</table>

- Without active plasma ions
- With active plasma ions

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.

**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.

**Retention of attached odour**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Odour intensity (grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>100</td>
<td>0</td>
</tr>
</tbody>
</table>

- Without active plasma ions
- With active plasma ions

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.

**Test name:** Test of reduction of allergen of cedar pollen.
**Testing organization:** ITEA/Institute of Tokyo Environmental Allergy.
**Test number:** 11MRPTMAY031.
**Test result:** Allergen of cedar pollen in a 45L container was reduced by more than 95.5% in about 8 hours.

**Efficiency of the reduction of allergens**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Odour intensity (ng/ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>4</td>
<td>30</td>
</tr>
<tr>
<td>6</td>
<td>20</td>
</tr>
<tr>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>100</td>
<td>0</td>
</tr>
</tbody>
</table>

- Without active plasma ions
- With active plasma ions

**Effect to remove attached bacteria**

**Reduction of attached bacteria**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Concentration of ammonia (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>25000</td>
</tr>
<tr>
<td>30</td>
<td>15000</td>
</tr>
<tr>
<td>60</td>
<td>5000</td>
</tr>
<tr>
<td>90</td>
<td>2000</td>
</tr>
<tr>
<td>120</td>
<td>1000</td>
</tr>
<tr>
<td>150</td>
<td>500</td>
</tr>
<tr>
<td>180</td>
<td>200</td>
</tr>
<tr>
<td>210</td>
<td>100</td>
</tr>
<tr>
<td>240</td>
<td>50</td>
</tr>
<tr>
<td>270</td>
<td>20</td>
</tr>
<tr>
<td>300</td>
<td>10</td>
</tr>
</tbody>
</table>

- Without active plasma ions
- With active plasma ions

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.

**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**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Change in skin moisture (difference in integrated skin moisture of 120 minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>15</td>
<td>20.5</td>
</tr>
<tr>
<td>30</td>
<td>37.1</td>
</tr>
</tbody>
</table>

- Without active plasma ions
- With active plasma ions

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.

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**Reduction of attached bacteria**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>Concentration of ammonia (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>25000</td>
</tr>
<tr>
<td>30</td>
<td>15000</td>
</tr>
<tr>
<td>60</td>
<td>5000</td>
</tr>
<tr>
<td>90</td>
<td>2000</td>
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<tr>
<td>120</td>
<td>1000</td>
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<td>150</td>
<td>500</td>
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<td>180</td>
<td>200</td>
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</tr>
<tr>
<td>270</td>
<td>20</td>
</tr>
<tr>
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- Without active plasma ions
- With active plasma ions

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.

**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.

**Safety concerning effect on skin, eyes, and respiratory organs**

**Test name:** repeated-dose toxicity test.
**Testing organization:** Life Science Laboratories, Ltd.
**Test number:** 12-II A2-0401
**Test result:** Safe when used as per the instructions.

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

*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%
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- Use only those parts and accessories supplied or specified by Daikin.
- Read the user’s manual carefully before using this product. The user’s manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

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