DAIKIN

PCAMT1736A

STREAMER

AIR PURIFIER

NEW
MCK55TVM6
Humidifying type

NEW
MC55UVM6

NEW
MC40UVM6

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.

STREAMER

New concept for an air purifier in a slim tower design.

Model debut in a compact and stylish design!

MCK55TVM6		
Humidification	Dust collection	Deodorisation
Capacity in turbo operation mode		
Air purification		**Humidifying capacity*2**
Air purification only Airflow 5.5 m³/min.	Humidification + air purification Airflow 5.5 m³/min.	500 mL/h
Applicable room area ~41m² *1		Applicable room area Prefab:~23m² Wooden:~14m²
Approximate room cleaning time 13.2m²/11min.		

MC55UVM6	
Dust collection	Deodorisation
Capacity in turbo operation mode	
Air purification	
Air purification only Airflow 5.5 m³/min.	
Applicable room area ~41m² *1	
Approximate room cleaning time 13.2m²/11min.	

MC40UVM6	
Dust collection	Deodorisation
Capacity in turbo operation mode	
Air purification	
Air purification only Airflow 4.0 m³/min.	
Applicable room area ~31m² *1	
Approximate room cleaning time 13.2m²/15min.	

Note:

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

*2 Humidifying capacity by JEM1426 (electric humidifier) with turbo operation at temperature of 20°C and humidity of 30%.

With wireless remote controller

NEW

MCK55TVM6

Double method

With wireless remote controller

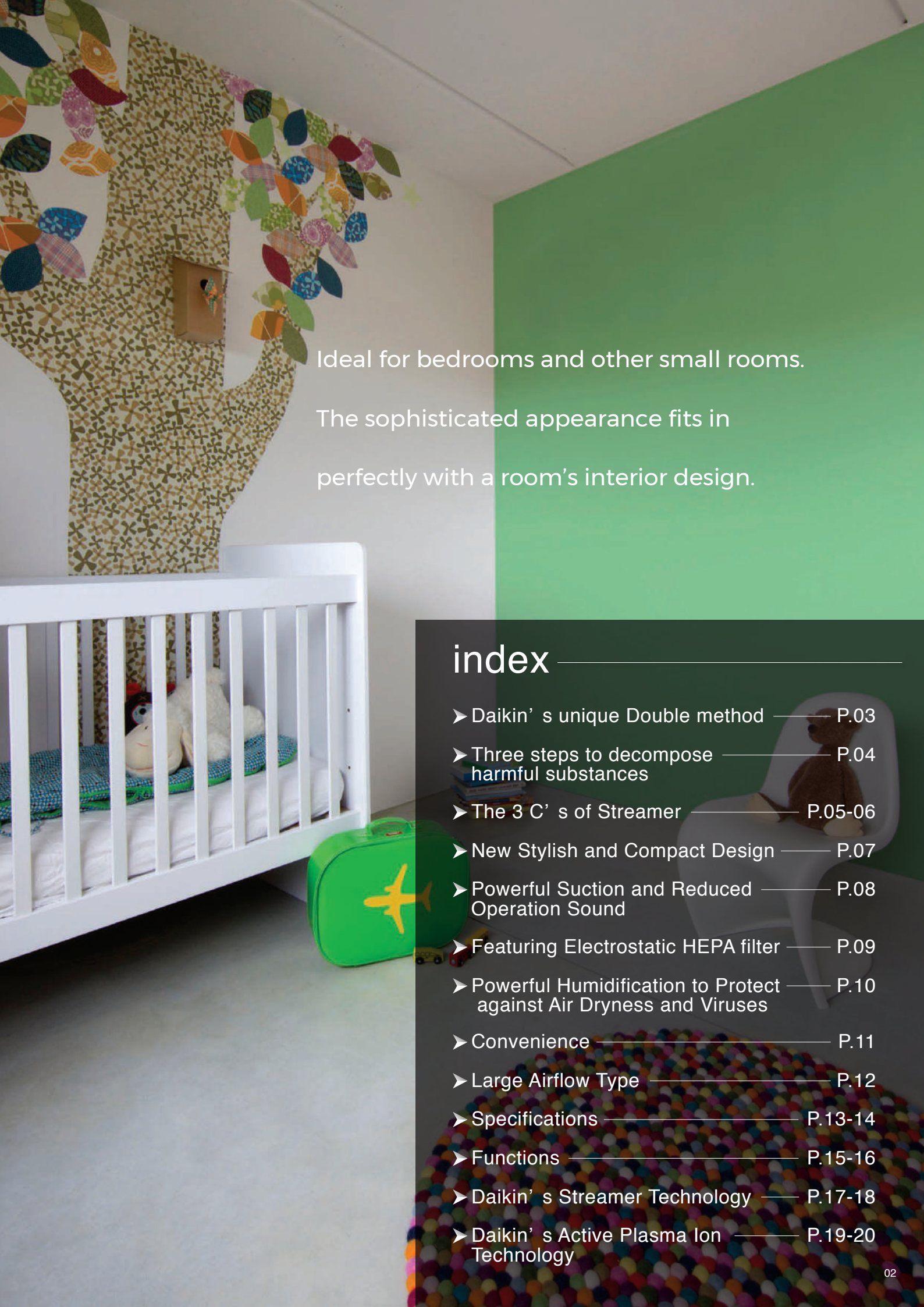
NEW

MC55UVM6

Double method

NEW

MC40UVM6



Ideal for bedrooms and other small rooms.

The sophisticated appearance fits in

perfectly with a room's interior design.

index

Daikin's unique Double method

Outside

Active plasma ion flow out

*MCK55 and MC55 models only.

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

Daikin's plasma ions have been proved safe.
Safety concerning effect on skin, eyes, and respiratory organs
Testing organization: Life Science Laboratories, Ltd.
Name of test: repeated-dose toxicity test
Test number: 12-II A2-0401

Mechanism of reduction by active plasma ions

Concentration: 25,000 ions/cm³ *1

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

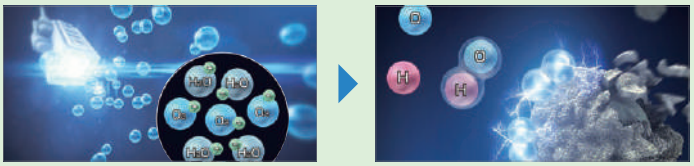
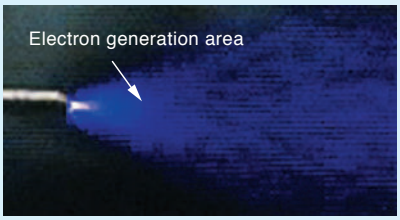


Image is for illustrative purposes

Inside

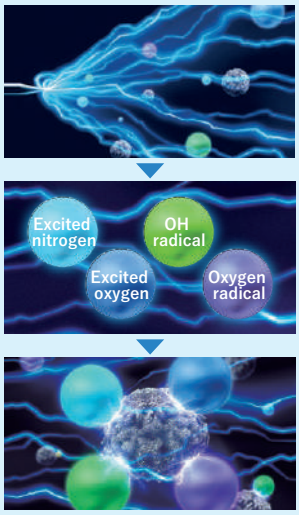
Streamer decomposes by suction

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



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

Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.

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

The decomposing elements provide decomposition power.

Pollutants that can be collected and deodorised by filter

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

Three 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. *1

STREAMER

Effect after nine hours in a space of about 200L.

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^3), 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).

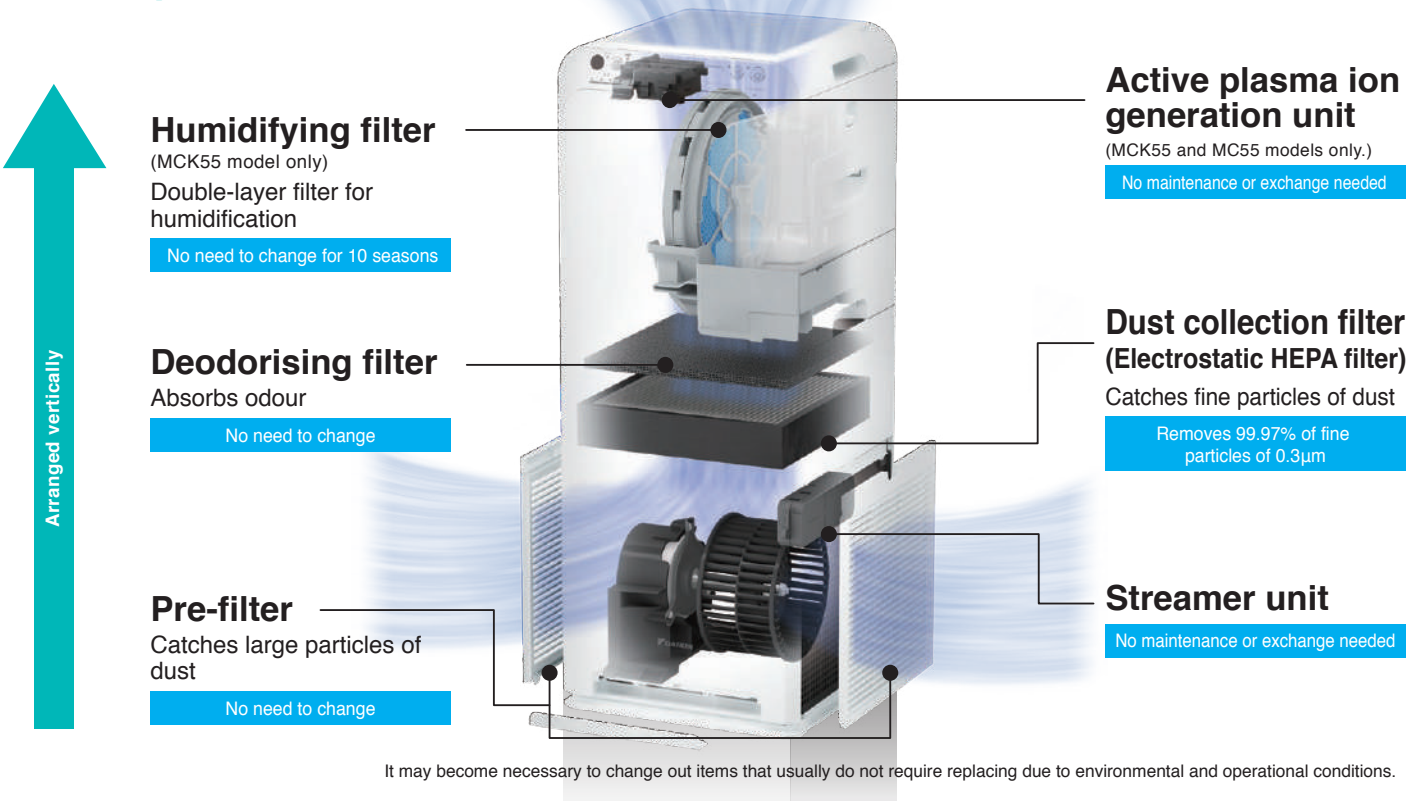
Pollutants that can be reduced

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

The 3 C's of Streamer

The Streamer symbol consists of three C's

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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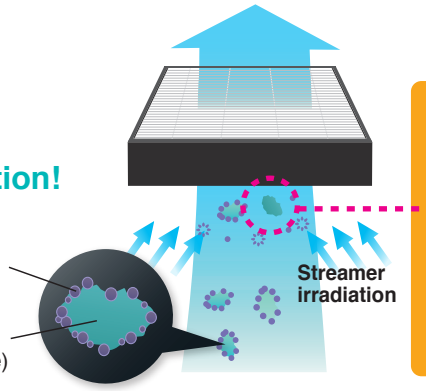
1 Clash

Decomposes harmful substances on the dust collection filter by oxidation!

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



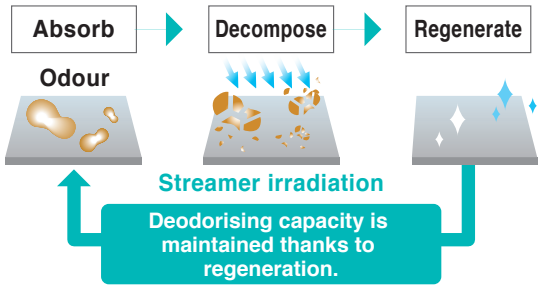
The dust collection filter catches the floating substances with the attached harmful gases and Streamer decomposes the harmful gases by oxidation. *1

2 Cycle

The deodorising filter absorbs and decomposes odour.

The deodorising capacity is maintained because the adsorbing capacity regenerates.

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

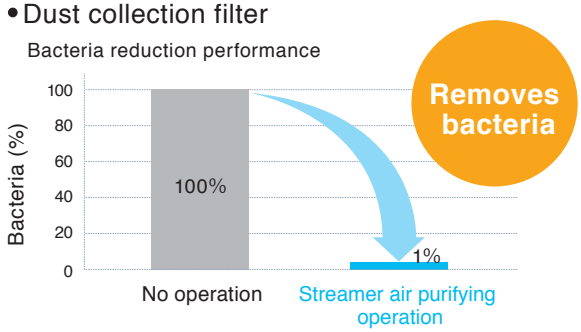


No need to change deodorising filters

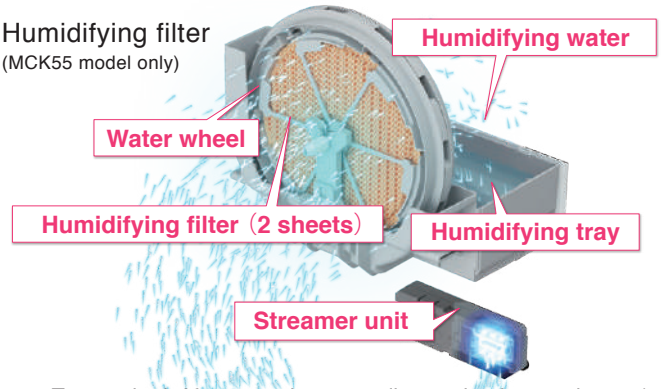
3 Clean

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

• Dust collection filter



• Humidifying filter
(MCK55 model only)



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*2 Placed the air purifier and an odour component, acetaldehyde, in a box of 21 m^3 and operated the air purifier. Examined increase of concentration of product (CO_2) 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^3. 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^3. 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).

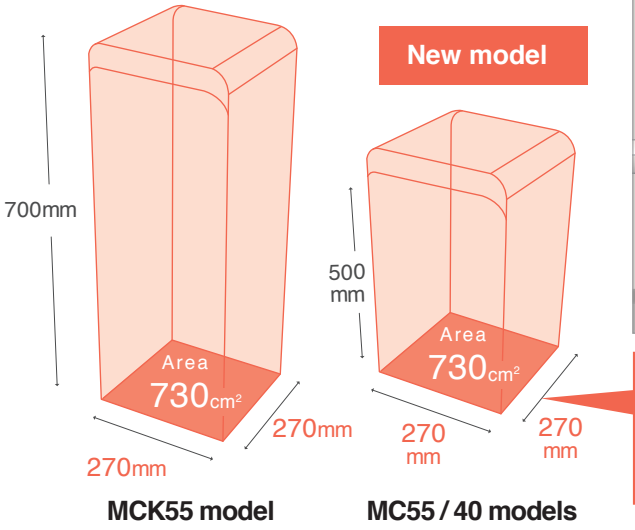
*5 (Reduction of bacteria in humidifying tray) Testing organization: Japan Food Research Laboratories. Test number: 15044985004-0101.
Test method: Performance evaluation test by voluntary standard of Japan Electrical Manufacturers' Association (HD-133). Test object: Moulds and bacteria in humidifying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

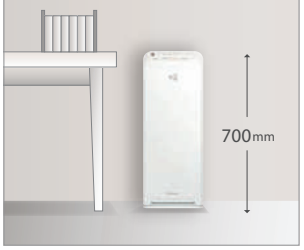
This description relates to the Streamer Technology devised by Daikin, but not to this Air Purifier. Test results from use of the Streamer Technology are generated according to prescribed test methods conducted by Daikin. Although the Streamer Technology is contained within this Air Purifier, this does 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.

New Stylish and Compact Design

Flexible choice of where to place the unit



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

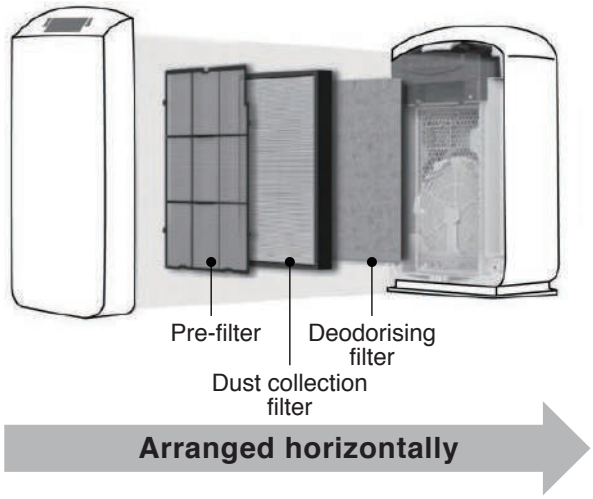


Only 27cm width & depth

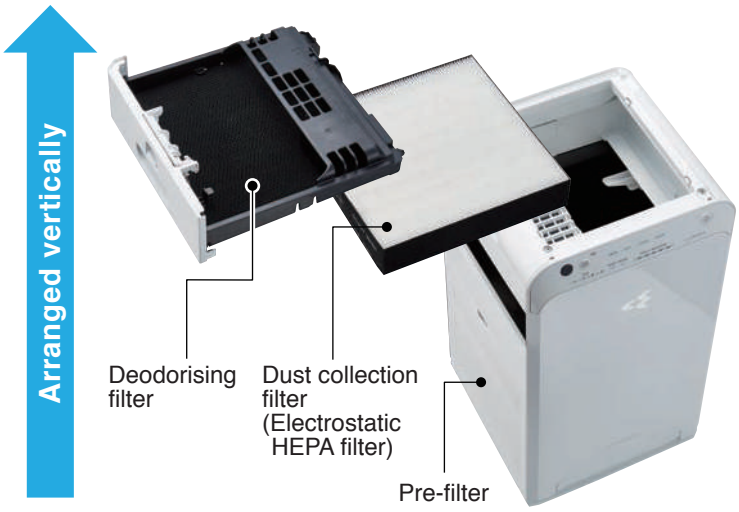
Powerful Suction and Reduced Operation Sound

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

Common design



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

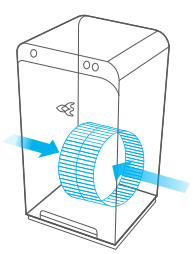
(Comparison with conventional Daikin products. In turbo operation)

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.



Featuring Electrostatic HEPA filter

Features high-performance filter to catch fine particles of dust

Removes 99.97% of fine particles of 0.3μm *1

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

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

▶

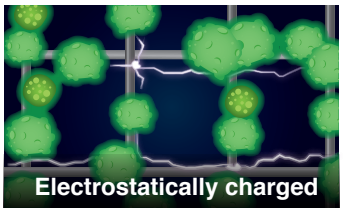
Therefore, a larger amount of air can pass through the filter.

▶

The filter can purify a larger amount of air!

Comparison between Electrostatic HEPA Filter and Non-electrostatic Filter

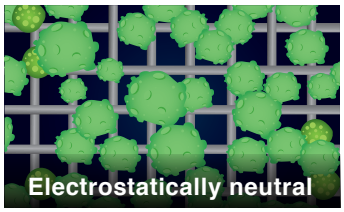
Electrostatic HEPA Filter



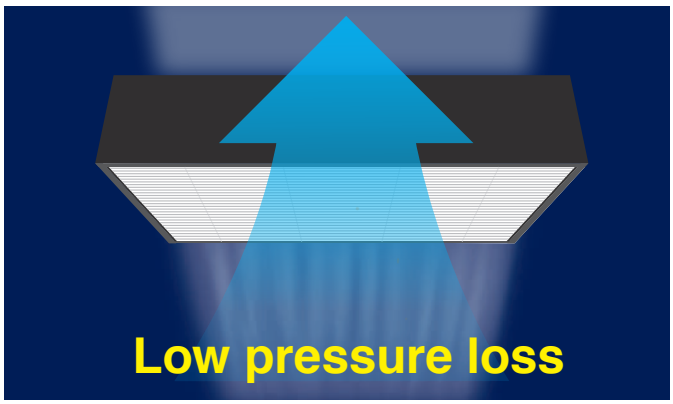
Filter fiber itself is charged with static electricity, and collects particles efficiently.

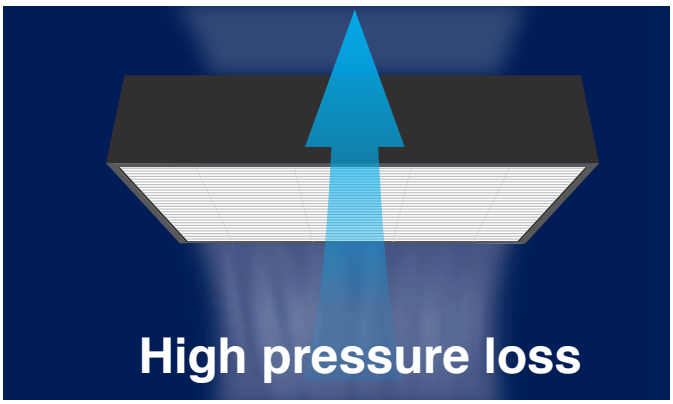
Doesn't clog easily because of low pressure loss.

Non-Electrostatic Filter



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





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Powerful Humidification to Protect against Air Dryness and Viruses

*MCK55 model only.

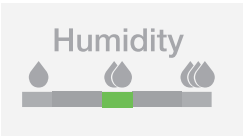
Benefit of Humidification

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

Protects against viruses by maintaining appropriate humidity of the room.

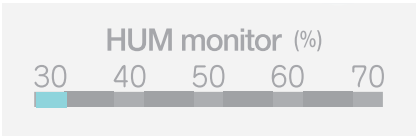
Select the target humidity from 3 levels

(The target humidity is a rough estimation.)



Low 40% Standard 50% High 60%

Indicates humidity of the room



Eliminates bacteria on the humidifying filter*1

Effect after five hours in a test space of about 25 m^3.
This is an effect in a test space and not a test result in an actual operation space.

STREAMER

Reduces bacteria in humidifying water by Streamer*2

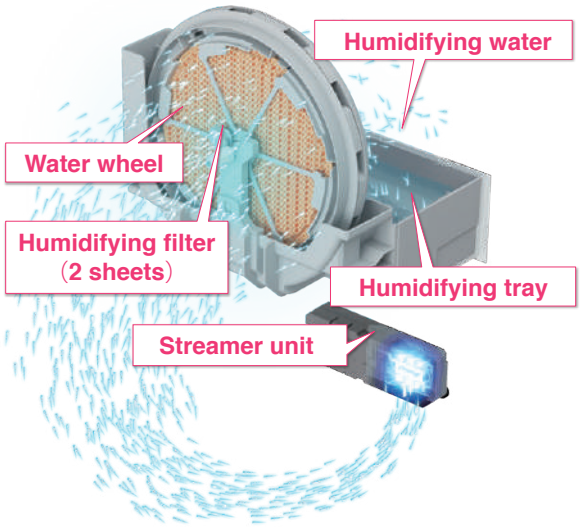
The humidifying tray needs regular maintenance (once in about a week).
This is not a verification result in an actual operation environment.

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



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Object part: Humidifying filter.
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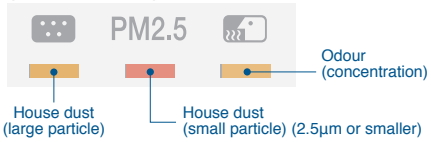
Test object: Moulds and bacteria in humidifying water.
Test result: Reduced by more than 99% in 24 hours.
Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55T series (turbo operation).

Convenience

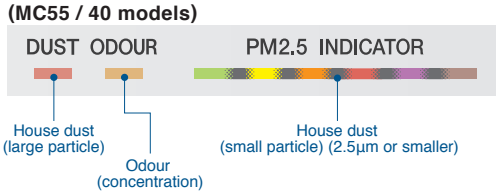
"Triple detection" sensor to quickly detect PM2.5

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

(MCK55 model)



(MC55 / 40 models)



An air purifier to remove PM2.5

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

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

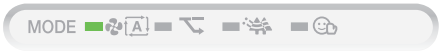
"PM2.5" refers to general fine particulate matters sized 2.5µm or smaller. This air purifier has not been proved to remove very fine particles of less than 0.1µm.
This product does not remove all harmful substances in the air.
The test results are effects in a closed space of 32m³ and not in an actual 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 32m³ within 90 minutes. (Converted to a value in a test space of 32m³)

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 opening the panel

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

Equipped with a remote controller

Convenient for operation from a distant position.

MCK55 model | MC55 model

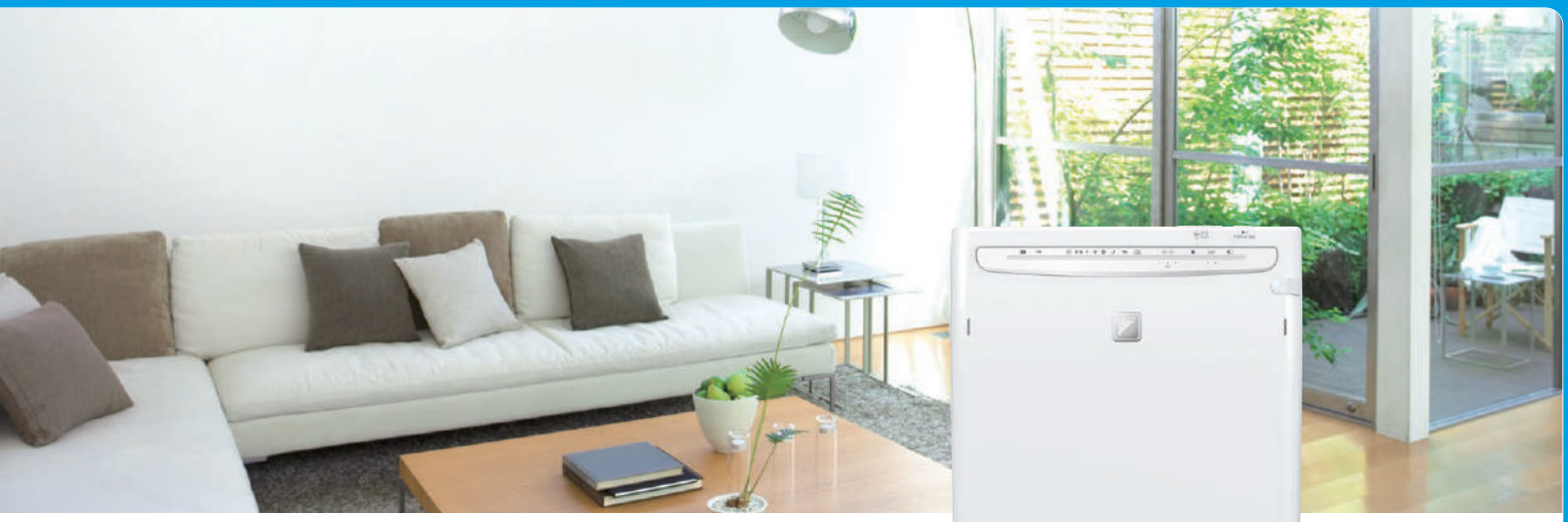
Easy-to-detach water tank (MCK55 model only)

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.

Large Airflow Type



Standard model with powerful air purification

Dust collection | **Deodorisation**

Air purification

Airflow 7.0 m³/min.

Applicable room area : ~46m² *1

Approximate room cleaning time : 13.2m²/10min.

STREAMER

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

MC70MVM6

With wireless remote controller

Powerful suction with large airflow of 7.0m³/min.

Large airflow of 7.0m³/min. quickly draws in air from three directions to rapidly clean the air in the room.

Quiet operation even in turbo mode

48dB during turbo operation

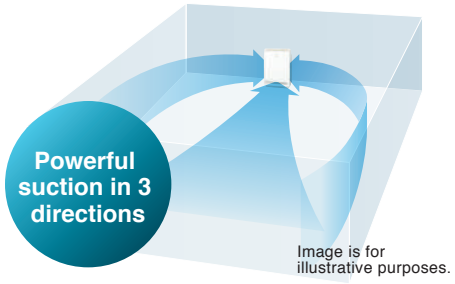


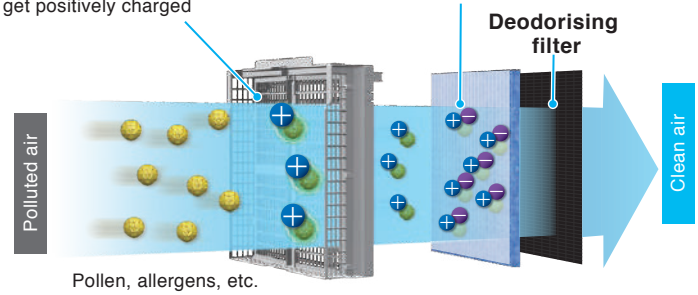
Image is for illustrative purposes.

Electrostatic dust collection system effectively catches dust

An electrostatic dust collection system uses electrical charges to effectively catch dust.
It features long-lasting dust collection capacity.

Plasma ionizer
Mould, mites (droppings and dead mites), pollen, and other allergens get positively charged

Pleated filter
Caught by the negatively-charged filter
(Front(white): Dust collection filter
Rear(blue): Titanium apatite deodorising filter)



No need to buy additional pleated filter for 10 years*2

Five filters sheets are included as standard equipment.
(1 sheet installed. 4 sheets for replacement.)

Easy filter changing

Just remove the filter and install a new one (about every two years)

Replacement filters are stored in the unit.

Note:

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

*2 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.

Specifications

MODEL																	
			Humidifying type NEW STREAMER   With wireless remote controller **MCK55TVM6**								NEW STREAMER   Withwireless remote controller **MC55UVM6**				NEW STREAMER  **MC40UVM6**		
Colour			White														
Mode			Air purifying operation				Humidifying operation				Air purifying operation						
Applicable room area*1	Air purification	m²	41 (13.2m² purified in approx. 11 min.)				———				41 (13.2m² purified in approx. 11 min.)				31 (13.2m² purified in approx. 15 min.)		
	Air purification + Humidification		41				Prefab : 23 Wooden : 14				———				———		
Power supply			1 Phase, 220–240/220–230V, 50/60Hz														
Mode			Quiet	Low	Standard	Turbo	Quiet	Low	Standard	Turbo	Quiet	Low	Standard	Turbo	Quiet	Low	Standard	Turbo
Airflow rate		m³/min.	0.9	2.0	3.2	5.5	1.7	2.4	3.2	5.5	1.1	2.0	3.2	5.5	1.1	1.8	2.8	4.0
Power consumption		W	7	10	17	56	11	14	19	58	8	10	15	37	7	9	13	23
Sound pressure level		dB	19	29	39	53	25	33	39	53	19	29	39	53	19	27	36	49
Humidification*2		mL/h	——	——	——	——	200	240	300	500	——	——	——	——	——	——	——	——
Dimensions		mm	H700(718 with caster) × W270 × D270								H500 × W270 × D270							
Weight		kg	9.5 (Without water)								6.8							
Dust collection filter			Electrostatic HEPA filter														
Humidifying method			Evaporation type Element								———						
Tank capacity			About 2.7L								———						
Optional accessories	Replacement filter	Dust collection	KAFP080B4E (1 sheet) (Purchase of new filters is needed after about 10 years)*3														
		Deodorising	———								———						
		Humidifying	KNME080A4E								———						

Note:

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

*2 Humidification amount changes in accordance with indoor and outdoor temperature and humidity.
Measurement condition: 20°C in temperature, 30% in humidity.(JEM1426)

*3 Verified by test method based on Japan Electrical Manufacturers' Association Standard JEM1467.
The standard assumes five or more cigarettes are smoked per day.
Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
More frequent filter changing may be needed depending on operating conditions.

MODEL							
			 With wireless remote controller				
			MC70MVM6				
Colour			White				
Mode			Air purifying operation				
Applicable room area*1	Air purification	m²	46 (13.2m² purified in approx. 10 minutes)				
	Air purification + Humidification		-------				
Power supply			1 phase 220-240 / 220-230 V (50/60 Hz)				
Mode			Quiet	Low	Standard	High	Turbo
Airflow rate		m³/min.	0.91	2.2	3.5	4.8	7.0
Power consumption		W	7	10	16	26	65
Sound pressure level		dB	16	24	32	39	48
Humidification*2		mL/h	-------				
Dimensions		mm	H576 × W403 × D241				
Weight		kg	8.5				
Dust collection filter			Pleated filter (+ Electric dust collection)				
Humidifying method			-------				
Tank capacity			-------				
Optional accessories	Replacement filter	Dust collection	KAC017A4E (5 sheets) (Purchase of new filters is needed after about 10 years)*2 (apporox. 2 years / sheet × 5 sheets = 10 years) 5 sheets are included as standard equipment.				
		Deodorising	-------				
		Humidifying	-------				

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

*2 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.
- 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.

Functions

		NEW  MCK55TVM6	NEW  MC55UVM6	NEW  MC40UVM6	 MC70MVM6
	Humidification	●	—	—	—
1	Temperature and humidity sensors	●	—	—	—
2	Dust (PM2.5/dust) and odour sensor lamps	●	●	●	—
3	Dust and odour sensor lamps	—	—	—	●
4	Streamer discharge	●	●	●	●
5	Active plasma ion	●	●	—	—
6	Electrostatic HEPA filter	●	●	●	—
7	Electric dust collection	—	—	—	●
8	Pleated dust collection filter	—	—	—	●
9	Titanium apatite deodorising filter	—	—	—	●
10	Deodorising filter	●	●	●	●
11	Moist mode	●	—	—	—
12	Econo mode	●	●	●	—
13	Auto fan mode	●	●	●	●
14	Anti-pollen mode	●	●	●	●
15	Sleep mode	—	—	—	●
16	Turbo mode	●	●	●	●
17	Off timer	—	—	—	●
18	Child proof lock	●	●	—	●
19	Brightness adjustment	●	●	●	●
20	Auto-restart after power failure	●	●	●	●
21	Stabilizer free	●	●	●	—

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 and odour sensor lamps

Dust and odours are detected and shown in 3 easy-to-understand colours to indicate the level.

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 Electric dust collection

Dust and pollen are collected by charging them positively and using the electrostatic dust collection filter charged negatively.

8 Pleated dust collection filter

Very economical, the air purifier comes standard with 5 replacement filters. You will not have to buy filters for 10 years (1 filter can be used for 2 years).

9 Titanium apatite deodorising filter

Odours and allergens are thoroughly adsorbed by the titanium apatite and then removed.

10 Deodorising filter

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

11 Moist mode

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

12 Econo mode

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

13 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.

14 Anti-Pollen Mode

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

15 Sleep mode

Operation automatically switches only between “Quiet” and “Low” modes in accordance with how polluted the air is.
This is recommended for times such as when sleeping.

16 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.

17 Off timer

Operation stop time can be set.

18 Child proof lock

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

19 Brightness adjustment

The brightness of the indicator panel lamp can be adjusted.

20 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.

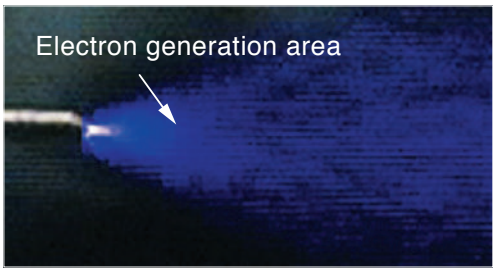
21 Stabilizer free

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.

Test results of Streamer devices

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



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

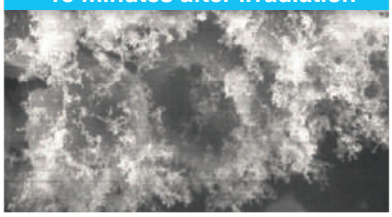
These are effects in a Streamer test space and not verification results in an actual operation space.

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

Works on objects caught by the filter.

Before irradiation

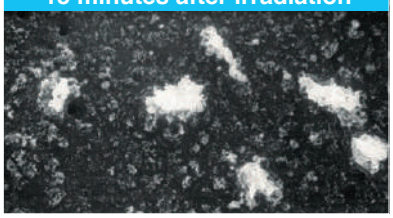
15 minutes after irradiation



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. (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.

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, ragwood 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 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*4
- 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^3
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^3/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^3 room.)

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

Test results of active plasma ion device

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.

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

Assumed mechanism of elimination

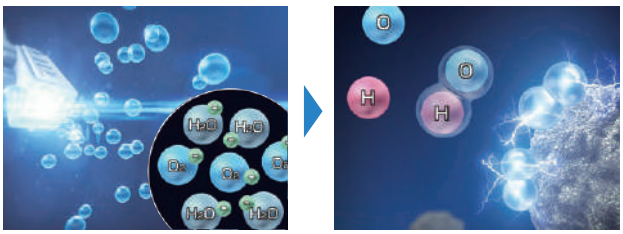


Image is for illustrative purposes

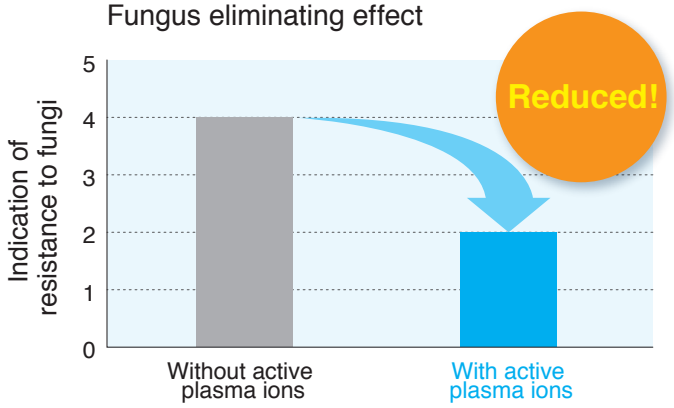
Concentration: 25,000 ions/cm^3 *1

Note:
*1 The number of ions per 1cm^3 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

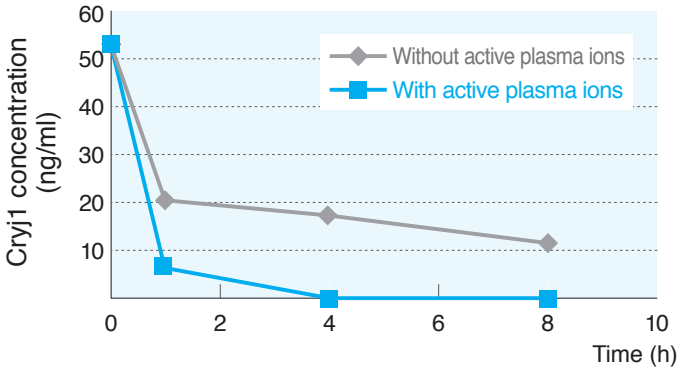
Fungus eliminating effect



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

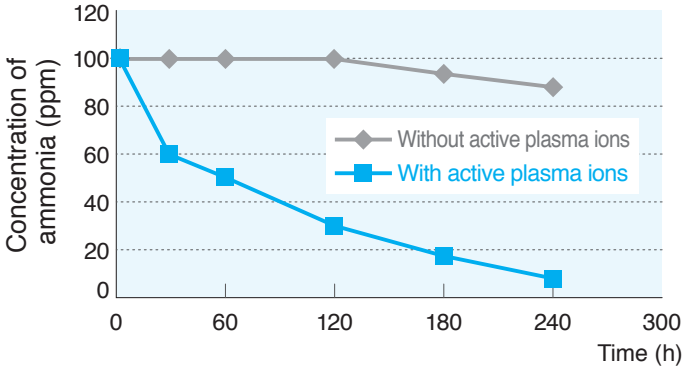
Change in concentration of allergen of cedar pollen over time



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.

Deodorisation

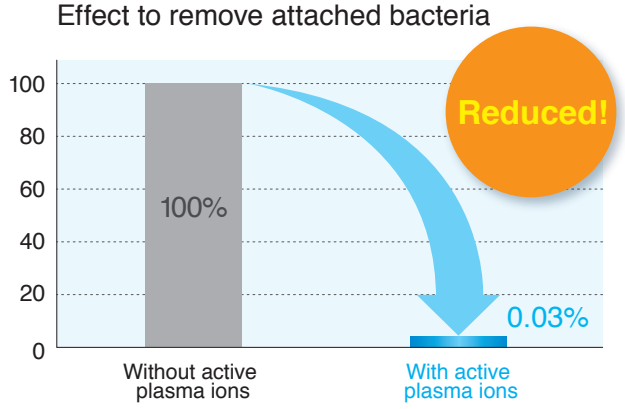
Deodorisation of ammonia



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

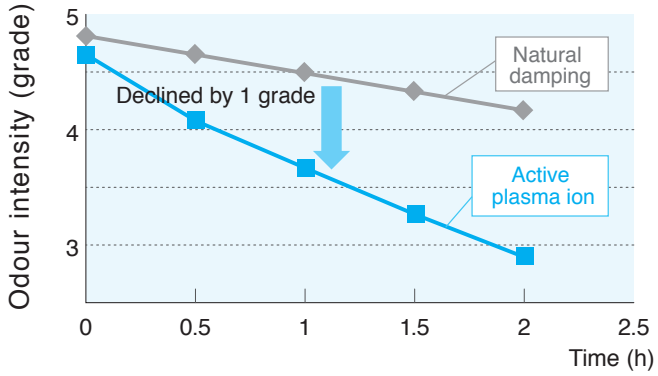
Effect to remove attached bacteria



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

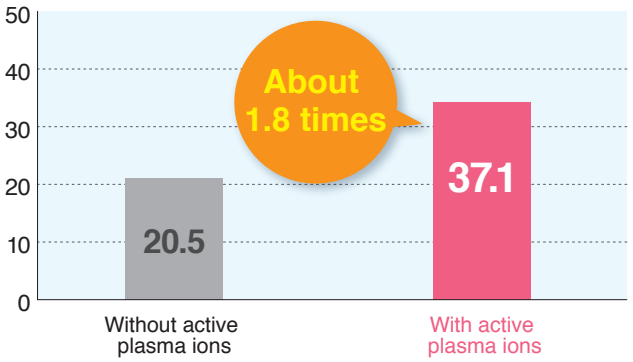


Test method: In a test chamber of a size of about 6 tatami mats, evaluated deodorising effect on a piece of cloth to which tobacco odour components were attached by 6-grade odour intensity indication method.
Test result: Odour intensity declined by 1 grade in about 1 hour (tested by Daikin).*
A one-grade 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.

NOTES

NOTES

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- 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.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer

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Daikin Contact Center : 0800 1 081 081 (Toll Free)

•Specifications, designs and other content in this brochure are current as November 2017, but subject to change without notice

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