



# STREAMER TECHNOLOGY AIR PURIFIER

MC55VB



- Pure air thanks to active plasma ion discharge and flash streamer technology
- High performance HEPA filter to catch fine particles of dust (10-Year HEPA Filter)
- Powerful suction and whisper quiet
- New stylish and compact design



FLASH STREAMER  
TECHNOLOGY



HEPA FILTER



WHISPER QUIET

## WHY CHOOSE **DAIKIN**?



As a global leader in the HVAC-R industry, we rely on more than 90 years of experience and expertise to deliver the highest quality solutions and services.

Daikin air purifiers uphold our promise to provide cleaner and healthier indoor climates in homes, offices and commercial spaces around the world. Because our care for the planet is absolute, our air purifiers are designed with the latest technology to consume less energy and reduce their environmental impact.

Our commitment to quality also means providing the best service experience for our customers. From on-site support and installations to troubleshooting and maintenance, our experts are here to help you achieve the perfect climate.

# DAIKIN'S UNIQUE DOUBLE METHOD

1. The Streamer unit, a high power plasma discharge technology, decomposes harmful substances\* inside the unit. These substances are either trapped on the HEPA filter or adsorbed to the deodorizing filter element.
2. The Active Plasma Ion generation unit provides further purification to the space, by adding purifying elements to the cleaned air. These could for example assist to deodorize smelling curtains and carpets.

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



#### Note:

- 1 Testing organization: Kitasato Research Center for Environmental Science; Test result certificate 21\_0026 (issued by same organization); Result of experiment: 99.9% removal of A-H1N1 virus after 1 hour.
- 2 Testing organization: Japan Food Research Laboratories; Test number: 1504988001-0201; Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a dust collection filter installed in an air purifier, and operated it in a test area of 25 m<sup>2</sup>. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCKSSS (Japanese model), a model equivalent to MCKSSW series (turbo operation).
- 3 Various allergens were irradiated by streamer discharge and the breakdown of protein in the allergens was verified using the ELISA method, cataphoresis, or an electron microscope (Joint research with Wakayama Medical University). Test example: Japanese cedar pollen Cryj-1; Test result: 99.6% or more decomposed and removed in 2 hours.
- 4 Testing organization: Japan Food Research Laboratories; Test number: 204041635-001; Test result: 99.9% or more of mould (Cladosporium) spores decomposed and removed in 24 hours.

## THREE STEPS TO DECOMPOSE HARMFUL SUBSTANCES

### 1 Powerful suction

Takes in air over a wide area from 3 directions.



### 2 Effective capturing of pollutants

Efficiently catches dust and pollutants with an electrostatic HEPA filter.



### 3 Decomposition

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



## THE STREAMER SYMBOL CONSISTS OF THREE C'S



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

**CYCLE:** The deodorising filter adsorbs and decomposes odour. Thanks to the regeneration of the adsorbing capacity, the deodorising capacity is maintained. No need to change the deodorising filter, unlike air purifiers with activated carbon filters.

**CLEAN:** Removes bacteria from dust collection filter.

## HIGH PERFORMANCE HEPA FILTER TO CATCH FINE PARTICLES OF DUST

Removes 99% of particles between  $0.1\mu\text{m}$  and  $2.5\mu\text{m}$  in size

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

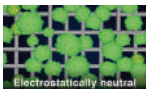
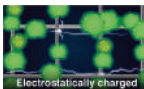


**Electrostatic  
HEPA filter**

versus

**Non-electrostatic  
filter**

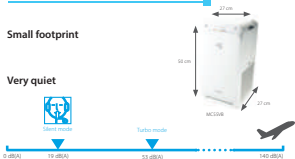
- › Removes 99.97% of fine particles of  $0,3\mu\text{m}$
- › Filter fiber itself is charged with static electricity, and collects particles efficiently
- › Doesn't clog easily, hence less pressure loss



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

Small footprint

Very quiet



### MODEL DEBUT IN A COMPACT AND STYLISH DESIGN

\* Calculated by test method based on Japan Electrical Manufacturers' Association Standard JEM1407.

#### MC55VB

Dust collection

Deodorisation

Capacity in turbo operation mode

Air purification

Air purification only

Airflow 5.5 m<sup>3</sup>/min. 330 m<sup>3</sup>/hour

Applicable room area

~41 m<sup>2</sup>

### DIFFERENT FILTERS FOR THE BEST INDOOR AIR



### TRIPLE DETECTION SENSOR TO QUICKLY DETECT AIR POLLUTION

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



# MC55VB

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Single Unit				MC55VB	
Application				Floor standing type	
Applicable room area				m <sup>2</sup> 41	
Dimensions	Unit	Height x Width x Depth		mm 500 x 270 x 270	
Weight	Unit			kg 6.8	
Casing				Colour White	
				Type Multi Blade Fan (Sirocco fan)	
Fan	Air flow rate	Air purifying operation	Silent/ Low/ Medium/ Turbo	m <sup>3</sup> /h	66 / 120 / 192 / 330
Sound pressure level	Air purifying operation	Silent/ Low/ Medium/ Turbo		dB(A)	19 / 29 / 39 / 53
Air purifying operation	Power input	Silent/ Low/ Medium/ Turbo		kW	0.005 / 0.010 / 0.015 / 0.037
Deodorizing method				Flash streamer + Deodorizing catalyst	
Dust collecting method				Electrostatic HEPA filter	
Air filter	Type			Polyethylene terephthalate net	
Sign	Item			Dust Sign: 3 stages / Odour: 3 stages / Anti-pollen mode / Child proof lock lamp / PM2.5 sensor lamp: 6 stages / Airflow rate: Quiet/Low/Standard/Turbo / AUTO FAN mode / Econo mode / ON/OFF lamp / Streamer lamp	
Power supply	Phase/Frequency/Voltage		Hz/V	Single Phase 50Hz 220-240 / 60Hz 220-230	
Type				Air Purifier	
Optional Accessories	Replacement filter	Dust Collection		KAFP080B4 (1 sheet) (Purchase of new filters is needed after about 10 years)	
		Deodorising		-	
		Humidifying		-	

The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. (JEM 1467) | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function: Active plasmation function. Auto-restart function.

About the dust collection and deodorizing capacity of an air purifier:

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

The Daikin air purifier is not a medical device and is not meant to be used as a substitute to any medical or pharmaceutical treatment.

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