



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



DAIKIN'S UNIQUE **DOUBLE METHOD**

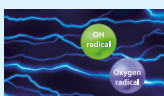
1. The Streamer unit, a high power plasma discharge technology, decomposes harmful substances* inside the unit. These substances are either trapped on the HEPA filter or absorbed to the deodorizing filter element.

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.

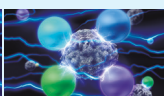
*Substances including: viruses¹, bacteria², pollen³, mould spores⁴



Plasma discharge emits high-speed electrons



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



These elements provide decomposition power.

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: 1504498001-0201. 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 25m³. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK^{SS} (Japanese model) a model equivalent to MCK^{SW} 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% more decomposed and removed in 2 hours.

4. Testing organization: Japan Food Research Laboratories. Test number: 204041835-001. 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

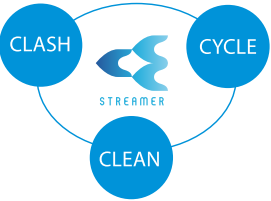
Decomposition

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



STREAMER

THE STREAMER SYMBOL CONSISTS OF THREE C'S



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

CYCLE: The deodorising filter absorbs and decomposes odour. Thanks to the regeneration of the absorbing 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 0.1µm and 2.5 µm 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.

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

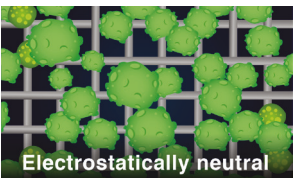
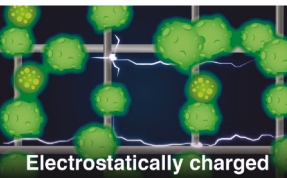
The filter can purify a larger amount of air!

Electrostatic HEPA filter

versus

Non-electrostatic filter

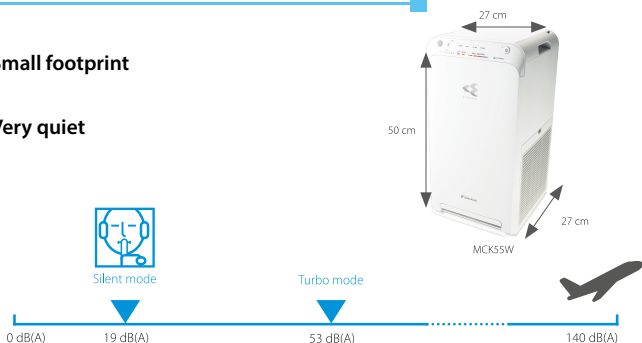
- › Removes 99.9% of fine particles of 0.3µm
- › Filter fiber itself is charged with static electricity, and collects particles efficiently
- › Doesn't clog easily, hence less pressure loss



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 JEM1467.

MC55VB

Dust collection

Deodorisation

Capacity in turbo operation mode

Air Purification

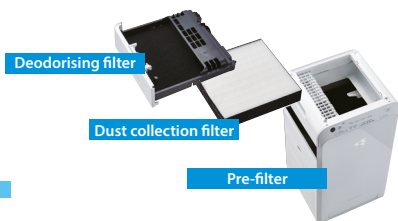
Air purification only

Airflow 5.5 m³/min 330 m³/hour

Applicable room area

~41 m²

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.



According to tests performed in the laboratories of the Institut Pasteur de Lille, Daikin's air purifiers eliminate more than 99.98% of the human coronavirus HCoV-229E in 2.5 minutes.

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.

MC55VB



Single Unit				MC55VB
Application				Floor standing type
Applicable room area for air purification		JEM1467	m ²	41*
		NRCC-54013	m ²	82**
area	Unit	Height x Width x Depth	mm	500 x 270 x 270
Dimensions	Unit		kg	6.8
Weight	Colour			White
Casing	Type			Multi-Blade Fan (Sirocco Fan)
Fan	Air flow rate	Air purifying operation	Silent/ Low/ Medium/ Turbo m ³ /h	66 / 120 / 192 / 330
Sound Pressure Level	Air purifying operation		Silent/ Low/ Medium/ Turbo dbA	19 / 29 / 39 / 53
Air Purifying Operation	Power input		Silent/ Low/ Medium/ Turbo kW	0.008 / 0.010 / 0.015 / 0.037
Deodorizing method				Flash streamer + Deodorising catalyst
Dust collecting method				Electrostatic HEPA filter
Air filter	Type			Polyethylene terephthalate net
Air quality sensors indication				Dust level indication: 3 stages Odour level indication: 3 stages PM 2.5 Indication: 6 stages Streamer lamp
Operation modes				Automatic Econo mode Anti-pollen mode
Power supply	Phase/Frequency/Voltage		Hz/V	Single Phase 50Hz 220 - 240 / 60Hz 220 - 230
Type				Air purifier
Optional accessories	Replacement filter	Dust Collection		KAFP08084 (1 sheet) (Purchase of new filters is needed after about 10 years)
		Deodorising		-
		Humidifying		-

* Coverage area was calculated in accordance with JEM1467. (when FAN setting is "Turbo")

** Coverage area was calculated in accordance with NRCC-54013 standard using cigarette smoke CADR that was tested according to JEM1467. (when FAN setting is "Turbo")

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 plasmatron function. Auto-restart function.

About the dust collection and deodorising 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

DAIKIN MIDDLE EAST AND AFRICA FZE

P.O. Box 18674, Plot M00426, JAFZA North, Jebel Ali Free Zone, Dubai, UAE | Tel: +971 (0) 4 815 9300 | Fax: +971 (0) 4 815 9311
E-mail: info@daikinmea.com Web: www.daikinmea.com Toll Free: 800-DAIKIN (324546)



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