



# AIR PURIFIERS

## STREAMER TECHNOLOGY

Ideal for indoor spaces such as your Home, Hotel Rooms, Classrooms, Doctor Rooms, Pharmacies, Offices and more.



*Perfecting the Air*



# INDOOR ENVIRONMENTAL QUALITY

New Zealand is renowned for its clean and fresh air, so it's hard to imagine the air causing negative impacts to our health, however we spend roughly **90% or more** of our time indoors such as home at home, schools, workplace etc<sup>2</sup>.

Between pollen, dust mites and our beloved furry friends, there's usually something in the air when it comes to allergies. In fact, New Zealand has some of the worst allergy rates in the world with **between 30-40% of adults suffering from allergies\***.

Respiratory conditions like asthma are also affecting an astonishingly high number of New Zealanders- in fact, according to the Allergy and Asthma Foundation, **1 in 6 Kiwis are affected**

**by respiratory disease<sup>1</sup>**, which is the third leading cause of death in NZ.

At Daikin, we're dedicated to delivering products and technologies that not only create a comfortable living environment, but also a healthy environment.

## THE SENSITIVE CHOICE FOR YOUR HOME

Daikin Air Purifiers are approved by the Sensitive Choice® New Zealand program as a better choice for people who suffer from asthma and allergies.



\*<https://www.healthpoint.co.nz/community-health-services/community-health/allergy-new-zealand-4/>

<sup>1</sup> <https://www.asthmafoundation.org.nz/>

<sup>2</sup> <https://www.tandfonline.com/doi/full/10.1080/1177083X.2016.1187636>

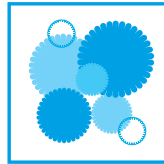


# COMMON HOUSEHOLD POLLUTANTS

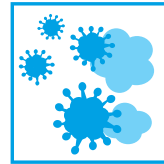
Daikin air purifiers capture, suppress and break down a number of pollutants found in the home.

The air inside any home contains a range of pollutants and allergens that can contribute to poor indoor air quality, leading to potentially serious health problems for occupants.

## Substances that can be controlled/broken down



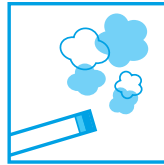
Mould



Pollen



Allergens such as dust mite droppings and remains



Odours



Formaldehyde



Diesel particulate matter



NOx



Dust



Yellow sand

## Substances that can be trapped



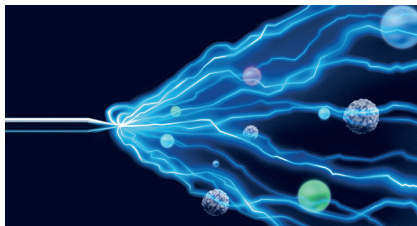


# MARKET LEADING STREAMER TECHNOLOGY

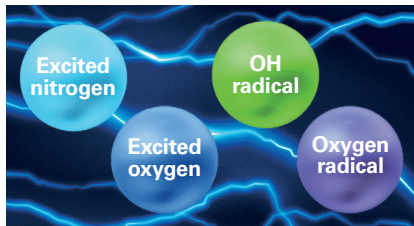


The secret to high performance air purification is Daikin's Streamer Technology. This innovative technology features a high-power plasma discharge that generates high-speed electrons to decompose harmful substances. This powerful oxidative decomposition process continuously removes odours, bacteria and indoor air pollutants such as formaldehyde for superior air purification.

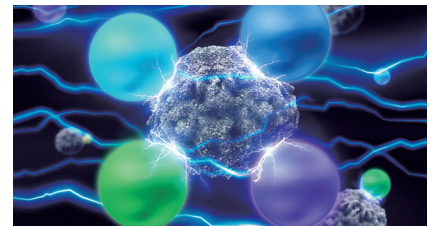
Compared to standard plasma discharge, the speed of oxidative decomposition is **over 1000 times greater with the same electrical power!**



Streamer emits high-speed electrons.



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



These elements break down unwanted substances.



# HOW EFFECTIVE IS DAIKIN STREAMER TECHNOLOGY?

## ELIMINATES POLLEN

More than 99.6%<sup>1</sup> in 2hrs

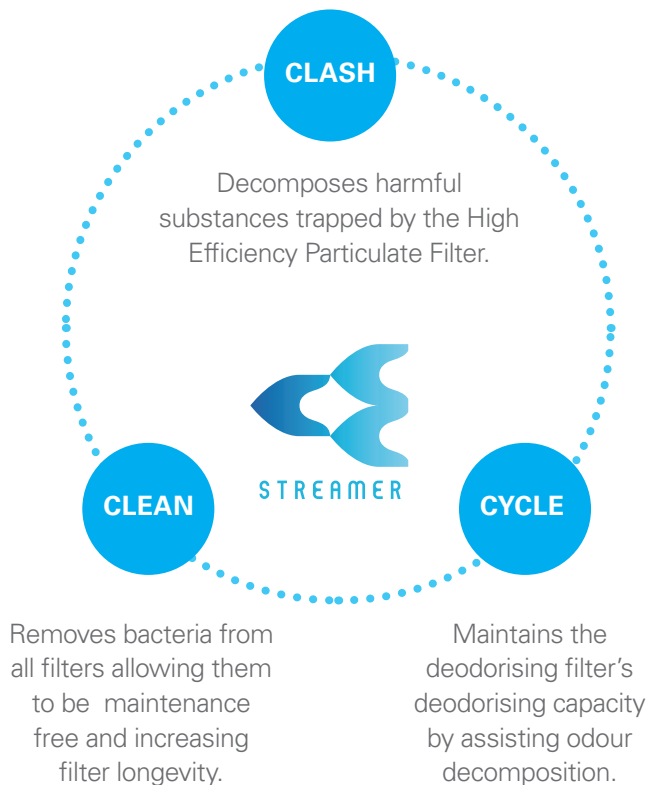
## ELIMINATES MOULD

More than 99.9%<sup>2</sup> in 24hrs

## ELIMINATES ALLERGENS

More than 99.61%<sup>2</sup> in 24hrs

# STREAMER TECHNOLOGY - THE THREE C'S



<sup>1</sup> Verified at Wakayama Medical University with the following test condition: Irradiated allergens with Streamer & checked decomposition of allergen proteins by either the ELISA method, electrophoresis or electron microscopy.

<sup>2</sup> Verified at Japan Food Research Laboratories using antibacterial test/mould elimination test (test number: 204041635-001).



# THE DAIKIN AIR PURIFIER RANGE

Turn your home into the great indoors. Daikin's Air Purifiers keep your indoor space fresh and healthy all year round.



## 4 LAYERS OF FILTRATION

Features Prefilter, Deodorising Filter, High Efficiency Particulate filter and Daikin's signature Streamer Technology.



## WIRELESS CONTROLLER

A wireless remote controller is included with MC55YPVM models for simple, convenient operation at your fingertips.



## ANTI POLLEN MODE

By creating gentle air turbulence from fan speed modulation, pollen is trapped by the air filters before it settles.



## TRIPLE DETECTION SENSOR

Dust, PM2.5 particles and odour levels are displayed on the top of unit for easy live monitoring.



## TURBO MODE

High power operation for quick removal of pollutants. Ideal for use when there is a sudden increase of occupants in the room.



## AUTO FAN MODE

Airflow is optimised to suit contamination levels detected from the sensors for efficient energy usage.



## ECONO MODE

Automatically switches between 'Quiet' & 'Low' operation mode to suit contamination levels. Ideal for sleeping hours



## ULTRA QUIET OPERATION

Whisper quiet operation with sound levels of as low as 19dBA (in Quiet Mode).



# UNIQUE DAIKIN TECHNOLOGY

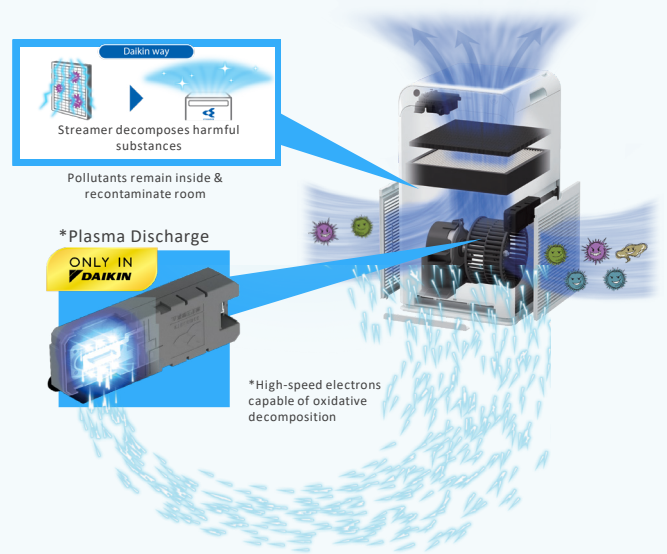
## 1. STREAMER TECHNOLOGY

Daikin's Patented Streamer Technology is the only one that decomposes bacteria, allergens and particles.

### How does this work?

In normal Air Purifiers, the bacteria, allergens and particles are still alive and active on the filter. They can still come out! So how can the bacteria, allergens and particles be decomposed and deactivated?

Daikin Streamer Technology can do it!



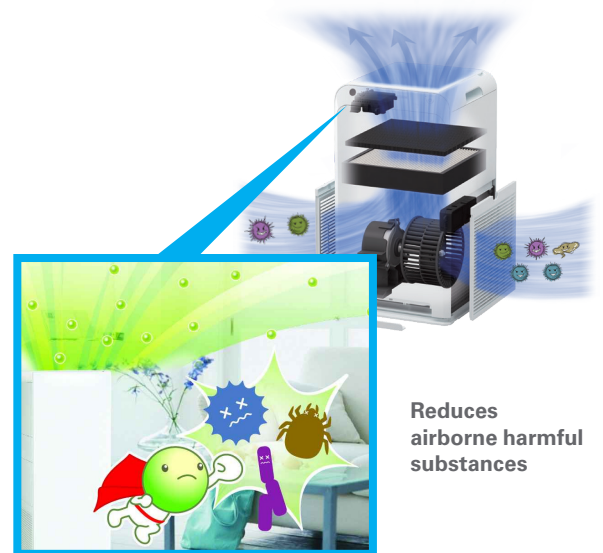
## 2. ACTIVE PLASMA ION\* NEW

Reacts with the air to generate OH Radical which decays unpleasant protein particles to eliminate germs, fungus, allergens, odor, and bacteria. It also helps moisturize the skin.

### How does this work?

Normal Air Purifiers cannot assure you that the air you are breathing does not contain harmful particles because there is stagnant air that does not pass through the HEPA filter.

Daikin Active Plasma ION Technology will spread out to reach every corner of the room to deactivate the allergens and particles.



\*Valid for model MC55YPVM only

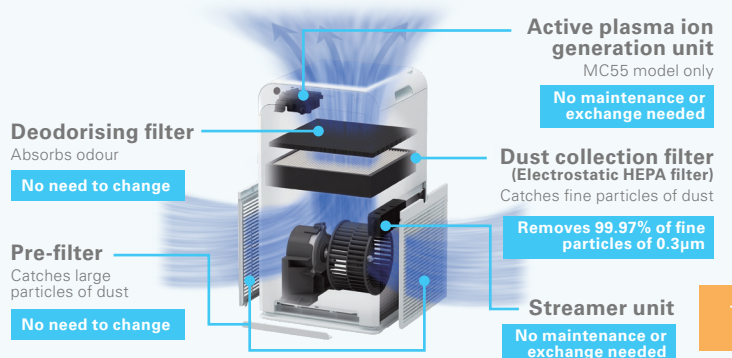
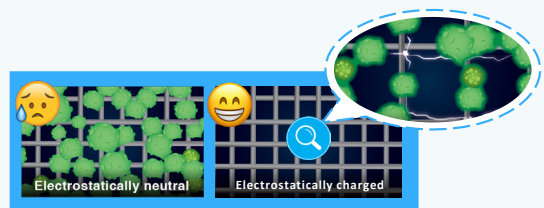
## 3. ELECTROSTATIC HEPA FILTER NEW

Dust collection filter that catches fine particles of dust down to 0.3 microns using electrostatic forces. It is not prone to clogging and can purify a larger amount of air.

### How does this work?

Normal HEPA filters can only catch fine particles but Daikin's Electrostatic HEPA filter ensures that even the smallest particle will be captured with electrostatic power.

The Electrostatic HEPA Filter is available in Daikin Air Purifiers!





# LEADING TECHNOLOGY AND INNOVATION

For over 90 years, Daikin has invested heavily in Research and Development to deliver market-leading technology and products that are efficient, powerful, reliable and easy to use.

## Active plasma ion generation unit

MC55 model only

No maintenance or exchange needed

## Pre-filter

Catches large particles of dust

No need to change

## Deodorising filter

Absorbs odour

No need to change

## Electrostatic High Efficiency Particulate Filter (Dust collection filter)

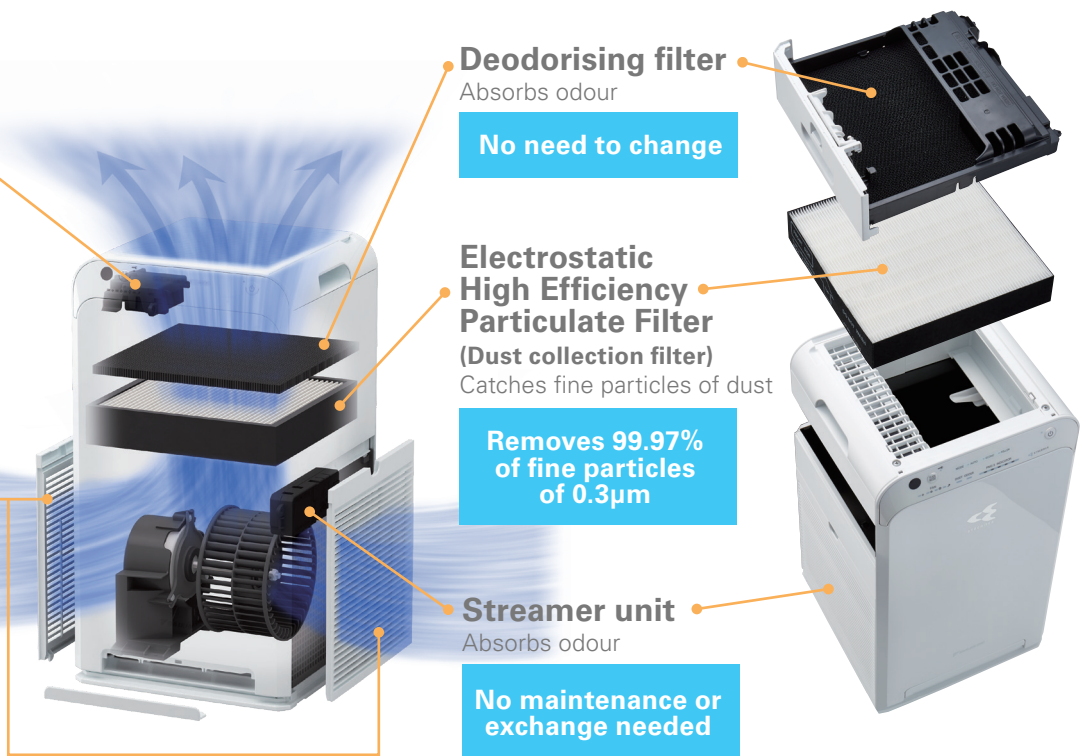
Catches fine particles of dust

Removes 99.97% of fine particles of 0.3µm

## Streamer unit

Absorbs odour

No maintenance or exchange needed



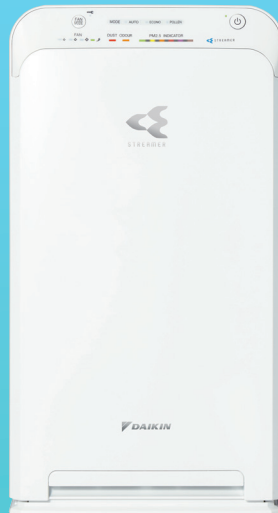


## Streamer Air Purifier MC55YPVM



Rooms up to 82m<sup>2</sup>  
Airflow Rate: 330m<sup>3</sup>/h

## Streamer Air Purifier MC40YPVM



Rooms up to 62m<sup>2</sup>  
Airflow Rate: 240m<sup>3</sup>/h

## Streamer Air Purifier MC30YPVM



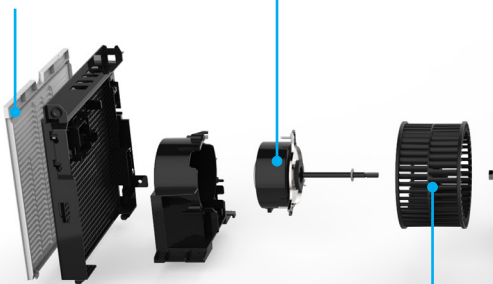
Rooms up to 46m<sup>2</sup>  
Airflow Rate: 180m<sup>3</sup>/h

### DC FAN MOTOR

Efficiently controls fan rotational speed for greater power savings and quiet operations as low as 19dBA.

### PREFILTER

PET net filter captures larger particulates to ensure unimpeded operation of other system elements.



### SIROCCO FAN

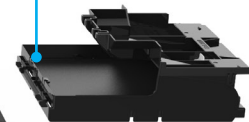
Light weight sirocco fan. These fans feature an aerodynamic fan blade design which reduces turbulence for a more efficient and quieter air flow delivery.

### TRIPLE DETECTION SENSOR

Highly sensitive triple detection sensors measure the indoor air quality levels of the room.

### DEODORISING FILTER

Odours are absorbed by the deodorising catalyst and further decomposed by the Streamer, therefore retaining the deodorising capacity of the filter.



### STREAMER TECHNOLOGY

Releases high speed electrons that collide with oxygen and nitrogen molecules, this activates them and enables oxidative decomposition.

### HIGH EFFICIENCY PARTICULATE FILTER

(Dust Collection Filter)

Removes 99.97% of fine particles<sup>1</sup>. Particulates are attracted to the electrostatic fibres and trapped, freeing up airflow for increased filter longevity.

<sup>1</sup>Verified by the test method of The Japan Electrical Manufacturers' Association Standard JEM1467. It is the initial removal performance of the filter. It is different from the removal performance for the entire room.



## SMART INSTALLATION

The most ideal placement for your Daikin Air Purifier is opposite a Daikin Split System air conditioning unit to optimise the circular airflow effect.

The unit controls unevenness in the room temperature while cleaning the air during heating or cooling operation.

To maximise dust collection, it is most effective to place your Daikin Air Purifier on the floor, or as low as possible.





# SPECIFICATION & FEATURES



MODEL		MC55YPVM				MC40YPVM				MC30YPVM		
Colour		White										
Mode		Air Purification										
Applicable Room Size*	m <sup>2</sup> (30min/60min)	41/82				31/62				23/46		
Power Supply		1 Phase, 220-240V, 50Hz										
Power Cord Length (m)		1.8										
Fan Mode		TURBO	STD	LOW	QUIET	TURBO	STD	LOW	QUIET	TURBO	STD	QUIET
Airflow Rate	m <sup>3</sup> /h	330	192	120	66	240	168	108	66	180	120	60
	L/s	92	53	33	18	67	47	30	18	50	33	17
Power Consumption (W)		37	15	10	8	23	13	9	7	25	15	8
Sound Pressure Level (dBA)		53	39	29	19	49	36	27	19	37	27	19
Dimensions (HxWxD) (mm)		500x270x270								450x270x270		
Weight (kg)		6.8								5.8		
Filtration	Dust (0.3µm)	High Efficiency Particulate Filter (Dust Collection Filter)										
	Odour	Deodorising Filter + Daikin Streamer Technology										
	Formaldehyde & Bacteria	Daikin Streamer Technology										
Replacement Filters	Dust Collection Filters	KAFP080B4E								BAFP500A		

\*Room Size is calculated according to NRCC-54013 standard using cigarette smoke CADR tested according to JEM1467.

MODEL	MC55YPVM	MC40YPVM	MC30YPVM
<b>FEATURES</b>			
Streamer Technology	✓	✓	✓
High Efficiency Particulate Filter (Dust Collection Filter)	✓	✓	✓
Deodorising filter	✓	✓	✓
Prefilter	✓	✓	✓
Active Plasma Ion Technology	✓	-	-
Streamer Operation Indicator (Regular/Low)	✓	✓	-
Triple Detection Sensor & Indicator (Dust/PM2.5/Odour)	✓	✓	-
Fan Speed Setting & Indicator (Quiet/Low/Standard/Turbo)	✓	✓	✓ <sup>1</sup>
Operation Mode Indicator	✓	✓	✓
Fresh Mode	-	-	✓
Auto Fan Mode	✓	✓	-
Econo Mode	✓	✓	-
Anti-Pollen Mode	✓	✓	-
Wireless Remote Controller	✓	-	-
LED Brightness (Bright/Dim/Off)	✓	✓	✓
Sensor Sensitivity Adjustment	✓	✓	-
Child Proof Lock	✓	-	-
Auto-Restart After Power Failure	✓	✓	✓

\*MC30YPVM features Turbo, Standard & Quiet Fan Speed only.

The specifications, designs and information in this brochure are subject to Change without notice. Unit colours shown are as close as possible to actual unit colours. Colours depicted in this brochure may vary slightly.

#### ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

#### QUALITY CERTIFICATIONS

Daikin Industries Ltd was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

#### ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Ltd has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

Head Office / Tokyo Office  
Shiga Plant (Japan)  
Sakai Plant (Japan)  
Daikin Industries (Thailand) Ltd  
Yodogawa Plant (Japan)  
Daikin Australia Pty. Ltd.

Certificate number: EC02J0355  
Certificate number: EC99J2044  
Certificate number: JOA-E-80009  
Certificate number: JOA-E-90108  
Certificate number: EC99J2057  
Certificate number: CEM20437

**Daikin Air Conditioning  
New Zealand Limited  
(ISO 9001)**  
QMS42380  
Auckland



**Residential Air Conditioning  
Manufacturing Div (ISO 9001)**  
JOA-0486 May 2, 1994  
(Shiga Plant)

**Commercial Air Conditioning  
and Refrigeration  
Manufacturing Div (ISO 9001)**  
JMI0107 December 28, 1992  
(Kanaoka Factory and Rinkai  
Factory at Sakai Plant)

**Industrial System and Chiller  
Products Manufacturing Div  
(ISO 9001)**  
JOA-0495 May 16, 1994  
(Yodogawa Plant and Kanaoka  
Factory and Kishiwada Factory)

**Daikin Europe N.V (ISO 9001)**  
Lloyd 928589.1 June 2, 1993

**Daikin Industries (Thailand) Ltd**  
JOA-1452 September 13, 2002  
(ISO 9001)



DAIKIN SPECIALIST

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