

**DAIKIN**  
A I R P U R I F I E R



Daikin cares  
for your air



IMPROVED BREATHING COMFORT FOR ALLERGY AND ASTHMA SUFFERERS



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# A tradition of **caring** for your air



Daikin has been a technology leader in energy-efficient climate control solutions for more than 80 years. Its products are renowned the world over for their mix of high technology, ease of use and pioneering concern for the environment.

This extensive background can be seen in our new fourth generation air purifier, the MC707. The technologically ground-breaking MC707 adds a new dimension of comfort to your life with its improved performance, ultra quiet operation, large airflow and new stylish design.

Daikin's latest air purifier model, the MC707, is the result of many years of investment in innovation at the service of the customer's well-being. These efforts place the MC707 among the best residential air purifiers on the market today.



MC707VM-W



MC707VM-S

# The Importance of **clean** indoor air



## Clean indoor air is hard to find these days

A link is increasingly being made between health problems and the quality of the air we breathe. Reported cases of allergic diseases and asthma are on the rise. According to the EFA\*, over **80 million people across Europe** have some form of **allergic disease** and their prevalence is increasing.

\*EFA: European Federation of Allergy and Airway Diseases Patients Association / [www.efanet.org](http://www.efanet.org) / February '06.

Today's residences and buildings are better insulated than ever, but this implies a limited exchange of outdoor air with indoor air. As a result, the air we breathe indoors can be more polluted than outdoor air. Moreover, we commonly spend up to 90% of our time in indoor environments.\*

\*European commission at [www.europe.eu.int](http://www.europe.eu.int) / February '06.



Indoor air can include

- Airborne allergens such as pollen, dust, house dust mites droppings and pet dander.
- Triggers to allergens such as moulds, tobacco smoke and adjuvant substances.

*Allergens are impurities in the air that can bring on an allergic reaction. In an urban environment, a mixture of these allergens with other impurities present in the air – called **adjuvant substances** – such as Diesel Exhaust Particles (DEP's) produced by engines and Volatile Organic Compounds (VOC's) present in building materials, cosmetics, etc. can turn allergens into **heavy allergens**. These in turn can have increased negative health effects such as aggravated symptoms and the triggering of latent allergies.*

## Breathtaking results



Thanks to the Flash Streamer technology, developed by Daikin, the MC707 is highly efficient in eliminating these potentially harmful agents\*.

99.6%

### Allergen removal

The MC707 removes the most common allergens such as pollen, dust, mite droppings and mold and adjuvant substances such as formaldehyde.

"Allergen Inactivation Experiments with Photo-Streamer", Wakayama Medical University (September 2004), "Verification of Inactivating Effects of Flash Streamer on Various Kinds of Allergen", Wakayama Medical University (October 2004) & "Verification Experiment of Allergen Degradation by Streamer Discharge", Wakayama Medical University (July 2005).

99.99%

### Removal of viruses and bacteria

Airborne viruses are removed by a **new Bio-Antibody filter** in less than 1 minute. Bacteria and mould spores are broken down by the Flash Streamer after being adsorbed by the Titanium Apatite photocatalytic filter.

"Test for Antibacterial Activity", "Report No. 203120769-004, Japan Food Research Laboratories (April 2004), "Test for Colony Count of Mold", Report No. 205090528-002, Japan Food Research Laboratories (September 2005) "Evaluation of the Anti-influenza Virus IgY Filter", joint research report with Waseda University (March 2004)

95%

### Deodorisation

The Flash Streamer breaks down and removes odours before the purified air is returned to the room.

Tested in accordance with the Japan Electrical Manufacturer's Association Standard JEM 1467. Be aware that the unit is unable to remove the harmful carbon monoxide that results from smoking cigarettes. Deodorising efficiency decreases with use. Not all continuously present odour components can be removed.

\* The Daikin Air Purifier is not a medical device and is not meant to be used as a substitute for any medical or pharmaceutical treatment. All figures given here may differ depending on the actual conditions of use.

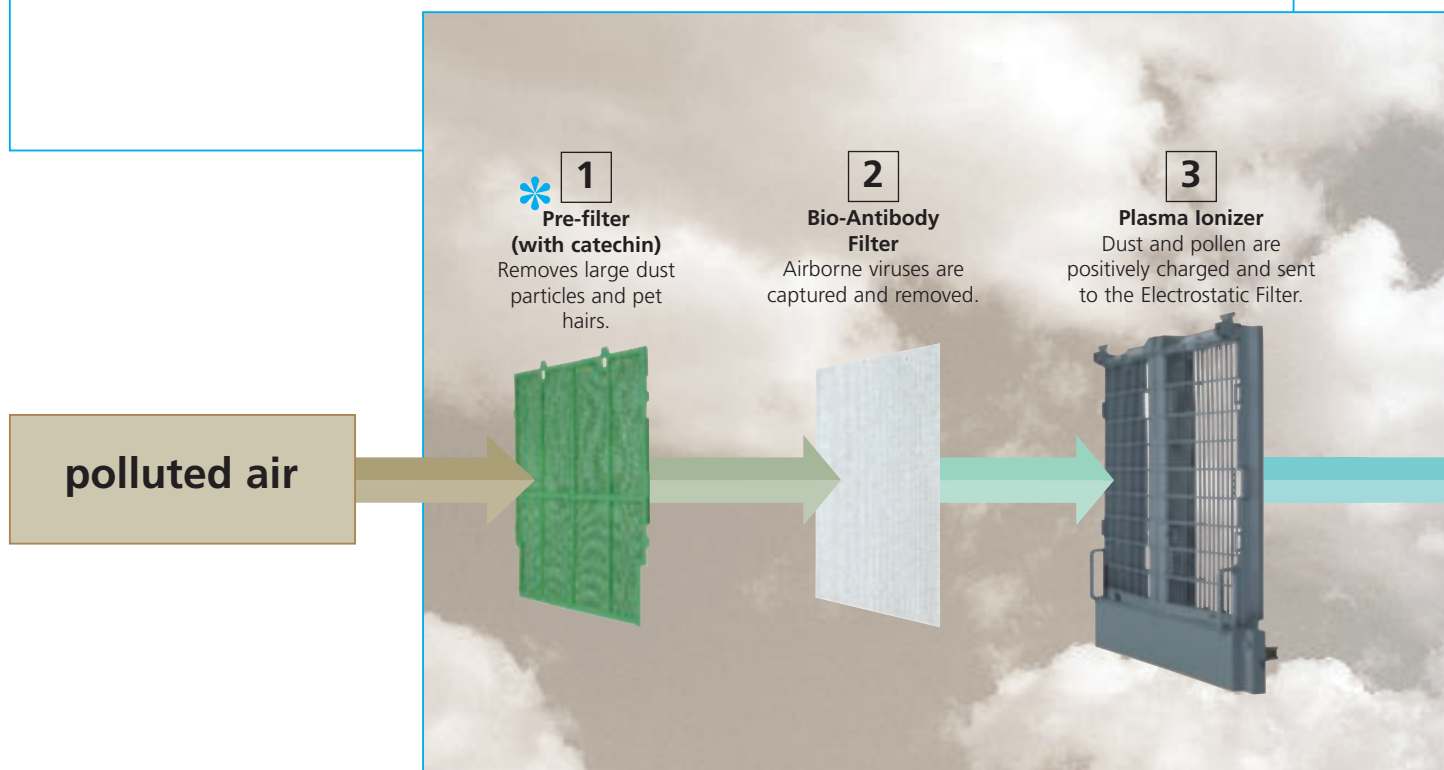
# Enhanced technology means **cleaner air**



Besides a number of practical features, the MC707 owes its enhanced performance to an advanced 7-layer filtering system, the product of Daikin's continuous drive for innovation and efficiency.

## How does the 7-layer filtering system work?

- 1 The Pre-filter – containing catechin – captures large dust particles and pet hairs.
- 2 The new active Bio-Antibody Filter removes airborne viruses.
- 3 The Plasma Ionizer positively charges dust and pollen particles, which are removed by the negatively charged Electrostatic Dust Filter.
- 4 The Flash Streamer decomposes chemical substances such as odours and formaldehyde into harmless by-products.
- 5 The Flash Streamer also promotes a photocatalytic reaction on the surface of the Titanium Apatite Photocatalytic Filter **6** that removes bacteria and viruses.
- 7 The Deodorising Catalyst breaks down odours.





- Catechin is a natural anti-bacterial substance derived from tea leaves that kills germs that can attach to these particles.
- The filtering surface of a pleated filter is approximately 1.5 times larger than that of a conventional flat filter.

### Flash Streamer unit

4

#### Flash Streamer

High-speed electrons are generated by the Flash Streamer. These electrons powerfully break down odours and formaldehyde.

5

#### Electrostatic Dust Collection Filter (front)

Positively charged dust and pollen are adsorbed by the negatively charged filter.

7

#### Deodorising Catalyst

Odours are adsorbed and broken down before the air is returned to the room.

6

**Titanium Apatite Photocatalytic Filter (back)**  
Odour, bacteria and viruses are adsorbed and decomposed.

PLEATED FILTER

purified air

# Main features

**Large air flow: 420m<sup>3</sup>/h\***

\*(in TURBO MODE)

The Powerful 4-directional fan action reaches every corner of the room.

**Applicable room size up to 48 m<sup>2</sup>**

**Ultra quiet operation: 16dB(A)\***

\*(in SILENT MODE)

This makes the unit suitable for use in bedrooms.

**Compact size**

Fits everywhere. No room or office corner is too small for the MC707.

**Portable**

The unit can easily (only 9 kg) be moved from one room to another.



**Low maintenance, Easy to clean**

Easy to clean flat panel.



Hand washable pre-filter and plasma ionizer.

**Cleaning the plasma ionizer**



**1** When cleaning indicator lights

**2** Remove dust from filter and in water

To maintain performance, the lower part of the plasma ionizer should be maintained periodically.

Bio-Antibody filter\* must be replaced yearly in order to maintain anti-virus action.

\*The Bio-Antibody filter is usable for one year after opening. The filter should be replaced annually. Nevertheless, overall operation will not be adversely affected if a Bio-Antibody filter is not used. The filter is effective 3 years from the date of manufacture.

Pleated filter to be replaced yearly. The unit includes 7\* pleated filters, one for immediate use and 6 spares.

\*Calculation of filter life is based on 10 cigarettes per day smoked in the room. (Results based on testing carried out in accordance with Japan Electrical Manufacturers Association JEM1467 standard.) The unit is unable to remove all harmful substances such as carbon monoxide found in cigarette smoke. Replacing the filters once per year is provided as a guide. The replacement interval will differ depending on how the unit is used and where it is located.

# Functional features



## Child lock

Set the child lock with the remote control to prevent small children from operating the air purifier.

## Automatic operation

Air flow is adjusted to the level of dirt in the air. When the air is cleaner, lower air flow rates are enabled. Thus saving electricity.

## TURBO Mode

This convenient mode provides high-power operation. Use it when you first arrive home or when you have unexpected guests.

## Off timer

The remote control can be set to turn the unit off after 1, 2 or 4 hours.

## Pollen Ion Mode

By creating a gentle turbulence in the room air, pollen is caught before it lands on the floor.

## Brightness adjustment

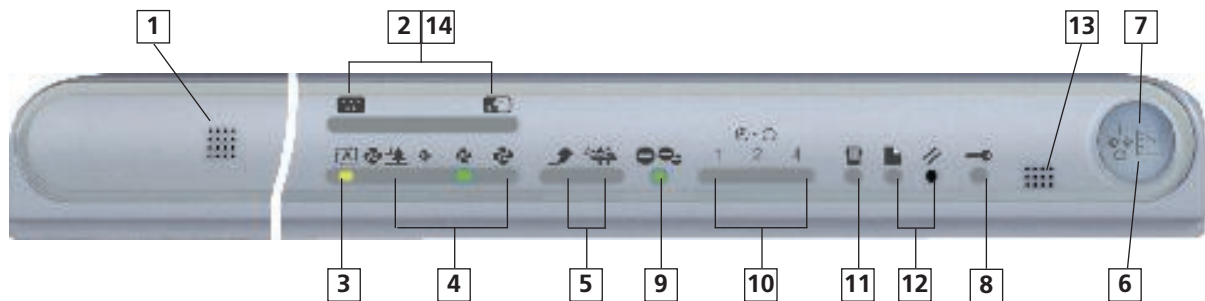
The brightness of the lamps on the indicator panel can be adjusted to one of three levels.

## Negative Ion Mode

Turning on the 'RELAX' switch is all it takes to generate negative ions. The large air flow fills the entire room, corner to corner, with freshened air.

## 4 fan speeds

Fan speed can be adjusted in four steps from LL to H mode.



- 1 Air inlet for dust sensor**  
Air enters here so that the dust sensor can detect how much dirt there is.
- 2 Dust monitor**  
The amount of dust detected in the air is indicated by these lamps.
- 3 Automatic operation indicator**  
Illuminates during automatic operation.  
One of the airflow lamps will also illuminate.
- 4 Airflow rate indicator**  
Illuminates when setting the airflow rate.
- 5 Turbo and Pollen mode indicators**
- 6 Receiver**  
This receives signals from the remote control.
- 7 Operation switch/stop button**  
Toggles through the operation modes.

- 8 Child lock lamp**
- 9 Negative ion indicator**  
Illuminates during Negative Ion mode.
- 10 Off timer setting indicator**  
The lamp for the Off timer setting illuminates.  
After setting, the remaining time is indicated by a lamp.
- 11 Clean indicator**  
When flashing, it is time to clean the plasma ionizer.
- 12 Filter replacement indicator and reset switch**  
Illuminates when it is time to replace the pleated photocatalytic filter. No action is taken, it will start flashing. Please press the Reset switch after replacing the filter.
- 13 Air inlet for odour sensor**  
Air enters to allow the dust sensor to detect how much odour is present.
- 14 Odour monitor**  
Indicates the amount of odour detected in the air.

The stylish design of the MC707 matches any interior design



Home



Hotel



Office



Restaurant



# Main specifications

## MC707VM-W/S

### MODEL

Power supply		
Dimensions	HxWxD	mm
Colour		
Weight		Kg

### MODE (50HZ)

Power input	kW
Sound pressure level	dB(A)
Sound power level	dB(A)
Inflow rate	m <sup>3</sup> /h

Dust collecting method		
Deodorising	Method	
	Deodorising performance (%)	
Bacteria filtering method	Regenerate method	
	Filter	Dust collection and deodorisation
Form		Function
	Lifetime	
	Bio-Antibody Filter	
	Pre-filter	

### MC707VM-W/S

1 ~, 220-240/220-230V, 50/60Hz

533x425x213

(W) = White + sparkling silver or (S) = Sparkling silver + metallic ocean blue

8.7

TURBO	H	M	L	SILENT
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0.055	0.023	0.014	0.010	0.008
47	38	31	24	16
62	52	40	39	31
420	285	180	120	60

Plasma ionizer (electrostatic dust collection) + Electrostatic dust collection filter

Flash Streamer + Titanium Apatite Photocatalytic filter + Deodorising catalyst

95

The Flash Streamer activates the photocatalytic reaction

Bio Antibody Filter + Flash Streamer + Titanium Apatite Photocatalytic Filter

Pleated filter

Deodorisation + disinfection + dust collection + adjuvant removal

1 filter/1 year

New

Catechin pre-filter

## OPTIONS

Titanium Apatite Photocatalytic Pleated Filter for replacement

Bio-Antibody Filter for replacement

KAC972A4E

KAF972A4E



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. Daikin strives to be a leader in providing of environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system that involves energy conservation and the reduction of waste.



The Quality Management System of Daikin Europe N.V. has been approved by LRQA in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.

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