



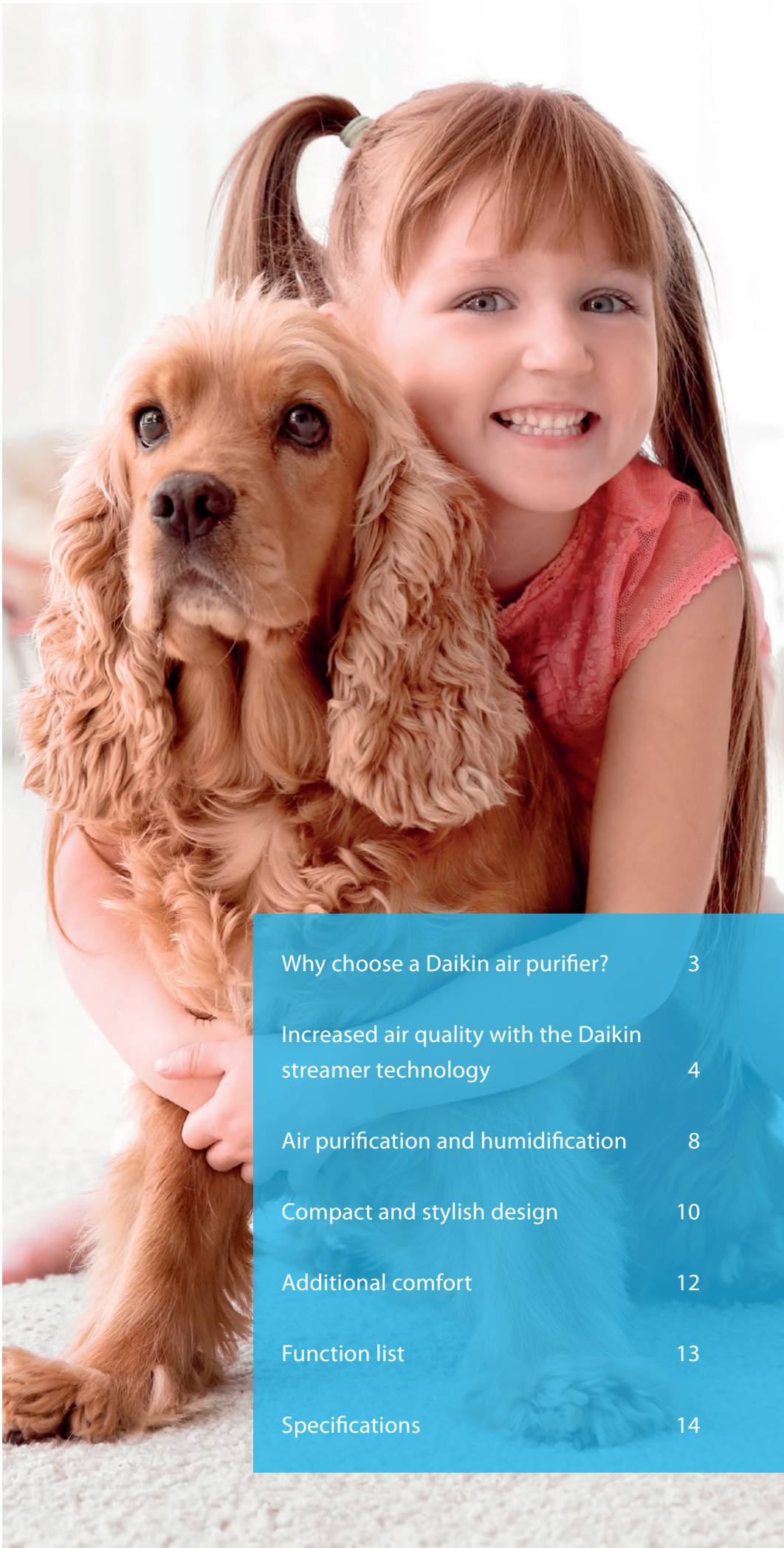
# Daikin Air Purifiers because indoor air matters



MCK55W



MC55W



Why choose a Daikin air purifier?	3
Increased air quality with the Daikin streamer technology	4
Air purification and humidification	8
Compact and stylish design	10
Additional comfort	12
Function list	13
Specifications	14

# Why choose a Daikin air purifier?

Daikin is the world leader when it comes to energy-efficient climate control solutions. Thanks to our constant innovation in **comfort, energy efficiency, control** and **reliability** we define the benchmarks for quality within the industry.

## Indoor Air Quality

- ✓ Breathing clean air is one of the joys of life and is certainly a major health benefit. **Clean air** delivered at the right humidity and in the right place is a perfect foundation for optimal comfort.
- ✓ Daikin's air purifiers filter out particles, allergens and unpleasant odours to deliver clean air for you to breathe and so optimizing your comfort levels and **reducing health risks**.

## Control

- ✓ Our air purifiers allow you to be in total control of where and when clean air is delivered.
- ✓ The compact size and light weight allows you to place the air purifier where it is needed and the **simple-to-operate** but highly sophisticated controls put you in total control of flow rate, humidity levels and scheduling of use.
- ✓ The **various modes** are pre-set functions that can be used when special situations arise.

## Energy efficiency

- ✓ It would not be a Daikin product if it had anything less than the highest level of energy efficiency. Like all our products and systems, our air purifiers are highly energy-efficient and this is enhanced by **special sensors** that detect the level of pollutants in the air and switch the unit on and off accordingly, while **timers** allow automatic air purification to be scheduled.

## Reliability

- ✓ Daikin products are renowned for their reliability. And you can rely on **service** to match.



## Purest indoor air with **Daikin streamer technology**



# What is the Daikin streamer technology?

The massive streamer discharge hits the viruses, mould, bacteria, allergens and hazardous chemical substances, decomposing and fragmenting their surface proteins, which are then destroyed through oxidation, thus rendering the virus safe. The streamer discharge then breaks down into safe nitrogen and oxygen atoms and water molecules.

Compared to the standard technologies in use, the Daikin streamer technology creates a wider plasma discharge within the machine that allows a greater number of electrons to be produced, resulting in an oxidative decomposition speed that is nearly 1,000 times greater.

Note:

\*1 The number of ions per 1cm<sup>3</sup> of air blown into the atmosphere measured near the air outlet during operation with maximum airflow. Test conditions: temperature 25°C, humidity 50%.

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

\*3 (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<sup>3</sup>), 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).

\*4 Placed the air purifier and an odour component, acetaldehyde, in a box of 21m<sup>3</sup> and operated the air purifier. Examined increase of concentration of product (CO<sub>2</sub>) generated by decomposition of acetaldehyde by Streamer (evaluation by Daikin). Test unit: Tested with MCK555 (Japanese model), a model equivalent to MCK55W series.

\*5 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 25m<sup>3</sup>. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK555 (Japanese model), a model equivalent to MCK55W series (turbo operation).

\*6 (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<sup>3</sup>. 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 MCK555 (Japanese model), a model equivalent to MCK55W series (turbo operation).

\*7 (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 MCK555 (Japanese model), a model equivalent to MCK55W series (turbo operation).

\*8 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 32m<sup>3</sup> within 90 minutes. (Converted to a value in a test space of 32m<sup>3</sup>)



## Three steps to decompose harmful substances.

- 1 Powerful suction
- 2 Effective capturing of pollutants
- 3 Decomposition

Takes in air over a wide area from 3 directions.



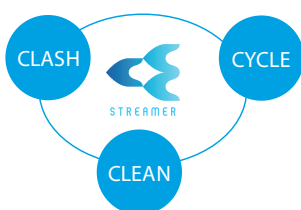
Efficiently catches dust and pollutants with an electrostatic HEPA filter.



Uses Daikin's Streamer technology to decompose, by oxidation, harmful substances caught on the filter.\*3



## 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\*3.

**CYCLE:** The deodorising filter absorbs and decomposes odour. Thanks to the regeneration of the adsorbing capacity, the deodorising capacity is maintained. No need to change the deodorising filter\*4.

**CLEAN:** Removes bacteria from dust collection filter\*5, humidifying filter\*6 and humidifying water tray\*7.



# Pure air Because Daikin cares

Daikin's air purifiers have 99% filtering capacity and efficiently remove allergens (e.g. pollen, dust, etc.), bacteria and viruses. They have a six layers filtering system which is the perfect solution and relieve for people suffering from asthma and pet allergens. In addition, the purifiers have a high deodorizing efficiency: they eliminate tobacco smoke whilst decomposing other smells. Enjoy your allergen-free home today.

## 1. Daikin's unique double method:

### Outside: Active plasma ion discharge

Plasma ion technology releases ions into the air by plasma discharge and combines them with components in the air to generate active components such as OH radicals with strong oxidising power. They attach to the surface of fungi and allergens and decompose proteins in the air by oxidation.

#### > Mechanism of reduction by active plasma ions

Concentration:  
25.000 ions/cm<sup>3</sup> \*1

Daikin's plasma ions have been proved safe, in relation to the 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.

### Inside: Streamer decomposes hazardous elements

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

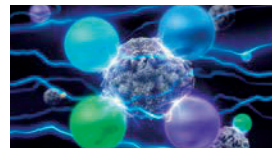
#### > Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



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



These elements provide decomposition power

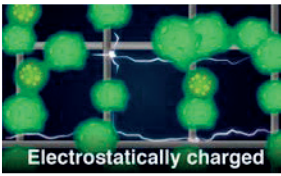
## 2. High performance HEPA filter to catch fine particles of dust.

Removes 99% of particles between 0.1µm and 2.5µm in size\*8

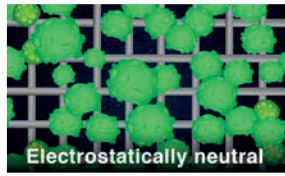
The filter collects dust efficiently with electrostatic forces. It is not prone to clogging compared with non-electrostatic HEPA filters which collect particles only by the fineness of the mesh.

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

The filter can purify a larger amount of air!



Electrostatic HEPA filter



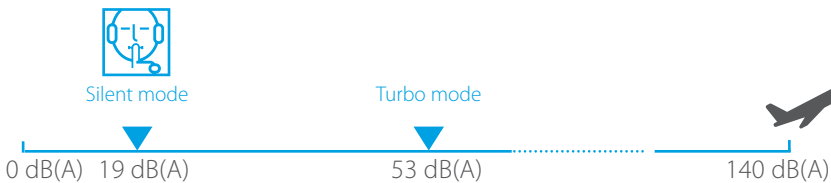
Non-electrostatic filter

versus

- Removes 99,97% of fine particles of 0,3µm
- Filter fiber itself is charged with static electricity, and collects particles efficiently.
- Doesn't clog easily, hence causes low pressure loss.

- Because it catches particles relying only on mesh size, it is necessary to make mesh finer, making it easy to be clogged and cause high pressure loss.

## 3. Compact, effective and quiet thanks to the new, innovative structure



### Air purifier MCK55W

**NEW** Humidifying streamer technology air purifier



- > Humidification and purification in one
- > Pure air thanks to active plasma ion flow out and flash streamer technology
- > High performance HEPA filter to catch fine particles of dust
- > Powerful suction and whisper quiet
- > New stylish and compact design

### Air purifier MC55W

**NEW** Streamer technology air purifier



- > Pure air thanks to active plasma ion flow out and flash streamer technology
- > High performance HEPA filter to catch fine particles of dust
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Air purification and humidification in one





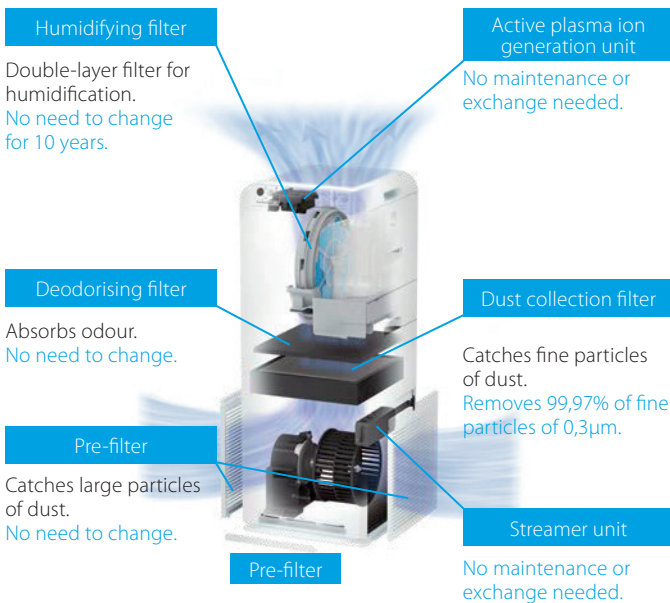
# Ururu humidification

There are many substances in the air you breathe such as allergen, bacteria, viruses and tobacco smoke, which causes your health to suffer. Above all things, dryness is especially a big issue during the wintertime. Daikin's Ururu air purifier moisturizes the air inside your home and relieves the effects of dry air. Just fill the water tank occasionally and it will humidify your room with a maximum volume of 500 ml/h. This useful and innovative function of humidification – called "Ururu" in Japanese – stems from the incorporation of a slim-line water tank and combined water wheel and vaporization filter assembly.



**MCK55W**

## Unique vertical structure



## MCK55W

HUMIDIFICATION

DUST COLLECTION

DEODORISATION

Capacity in turbo operation mode

AIR PURIFICATION		HUMIDIFYING CAPACITY
Air purification only Airflow <b>5.5</b> m <sup>3</sup> /min.	Humidification + Air purification Airflow <b>330</b> m <sup>3</sup> /hour	<b>500</b> ml/h
Applicable room area <b>~41</b> M <sup>2</sup> *		Applicable room area <b>~23</b> M <sup>2</sup>

Pure air in a compact  
and stylish design



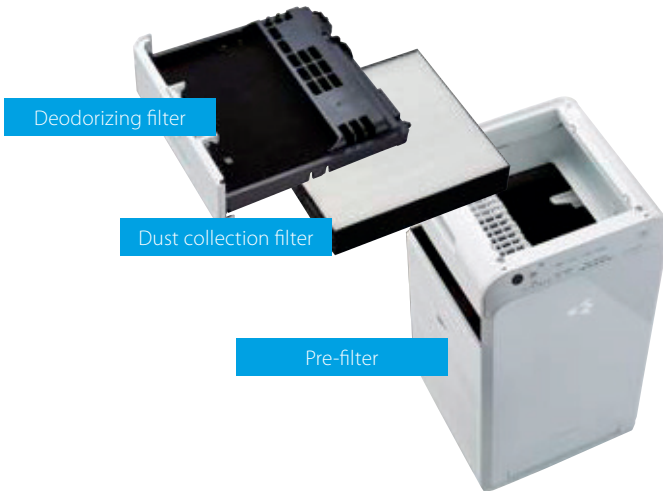
# Compact, effective and quiet thanks to the new, innovative structure

Daikin's air purifier MC55W is compact enough to fit on your desk but powerful enough to remove 99% of the dust, pollen, smoke, odour, mould spores and pet allergens. Equipped with a high sensitivity dust sensor which quickly detects air pollution, distinguishes small particles such as PM2.5 and reacts accordingly. Triple detection of dust, PM2.5 and odour is provided.



MC55W

## Triple Detection sensor to quickly detect air pollution



### MC55W

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>\*\*

# Additional comfort



MCK55W



MC55W

Suitable for rooms of up to 41 m <sup>2</sup>	✓	✓
The powerful fan action reaches every corner of the room	✓	✓
Large air flow* <small>*in TURBO MODE</small>	330 m <sup>3</sup> /h	330 m <sup>3</sup> /h
Ultra quiet operation* This makes the unit suitable for use in bedrooms. <small>*iin SILENT MODE</small>	19dB(A)	19dB(A)
Compact size Fits everywhere. No room or office corner is too small for the unit.	✓	✓
Portable	9.5 kg	6.8kg
Low maintenance, easy to clean	✓	✓
Remote control operation	✓	✓
No need to change the filters (10 years)	✓	✓



# Function

## list

### › Deodorizing filter

Absorbs odours and there is no need to change it.

### › Electrostatic HEPA filter

Efficiently catches dust and pollutants. Removes 99,97% of fine particles of 0,3µm.

### › Anti Pollen Mode

By switching between normal and low airflow to create a gentle turbulence, pollen is caught before it lands on the floor.

### › Streamer discharge

This function quickly decomposes odours and allergens, etc., with high speed electrons that have a powerful ability to oxidize.

### › Dust, PM<sub>2.5</sub> and odour sensor lamps

Dust, level of PM<sub>2.5</sub> and odours are detected and shown in three easy-to-understand colours to indicate the level.

### › Child proof lock

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

### › Power-saving mode

In Power saving mode, the FAN setting automatically switches between Quiet and Low only. Power consumption and operating sounds are reduced. Recommended for use during sleep hours.

### › Auto Fan Mode

FAN setting (Quiet, Low, Standard, High) is automatically adjusted according to the degree of air impurity and humidity (when the Humidifying operation is active). Purifying capacity increases as airflow rate rises.

### › Display adjustment

The brightness of the indicator panel lamp can be adjusted .

### › Active Plasma Ion Technology

“Plasma ion” technology releases ions into the air by plasma discharge and combines them with components in the air to generate active compounds such as OH radicals with strong oxidising power.

### › 3 Prefilters

This catches large dust particles. Bacteria and allergens are removed by the streamer and filter.

### › Low life-cycle costs

Daikin HEPA filter lasts approximately 10 years, according Japanese JEM tests.

### › Four fan speeds\*

Fan speed can be adjusted in four steps.

### › Controlling PM<sub>2.5</sub>

Elimination of 99% of 0.1-2.5µm particles.

### **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.**

# MCK55W

Powerful air purification and humidification in one




			MCK55W							
Model										
Colour			White							
Mode			Air purifying operation				Humidifying and Air Purifying Operation			
Applicable room area	Air purification	m <sup>2</sup>	41				-			
	Air purification + humidification		41				23			
Power supply			1 Phase, 220-240/220-230v, 50/60hz							
Plug shape			C type							
Mode			Quiet	Low	Standard	Turbo	Quiet	Low	Standard	Turbo
Airflow rate	m <sup>3</sup> /min.		0.9	2.0	3.2	5.5	1.7	2.4	3.2	5.5
Power consumption	W		7	10	17	56	11	14	19	58
Sound pressure level	dB(A)		19	29	39	53	25	33	39	53
Humidification	ml/h		-	-	-	-	200	240	300	500
Dimensions	mm		H 700 (718 with caster) x W 270 x D 270							
Weight	kg		9.5 (without water)							
Dust collection filter			Electrostatic HEPA filter							
Humidifying method			Evaporation type element							
Tank capacity			2.7l							
Optional Accessories	Replacement filter	Dust collection	KAFP080B4 (1 sheet) (purchase of new filters is needed after about 10 years)							
		Deodorising	-							
		Humidifying	KNME080A4							

# MC55W

Model debut in a compact and stylish design



			MC55W			
Model						
Colour			White			
Mode			Air purifying operation			
Applicable room area	Air purification	m <sup>2</sup>	41			
	Air purification + humidification		-			
Power supply			1 Phase, 220-240/220-230v, 50/60hz			
Plug shape			C type / UK plug type for VB model			
Mode			Quiet	Low	Standard	Turbo
Airflow rate		m <sup>3</sup> /min.	1.1	2.0	3.2	5.5
Power consumption		W	8	10	15	35
Sound pressure level		dB(A)	19	29	39	53
Humidification		ml/h	-	-	-	-
Dimensions		mm	H500 x W270 x D270			
Weight		kg	6.8			
Dust collection filter			Electrostatic HEPA filter			
Optional Accessories	Replacement filter	Dust collection	KAFP080B4 (1 sheet) (Purchase of new filters is needed After about 10 years)			
		Deodorising	-			
		Humidifying	-			

Daikin's air purifiers have 99% filtering capacity and efficiently remove allergens (e.g. pollen, dust, etc.), bacteria and viruses. They have a six layers filtering system which is the perfect solution and relieve for people suffering from asthma and pet allergens. In addition, the purifiers have a high deodorizing efficiency: they eliminate tobacco smoke whilst decomposing other smells. Enjoy your allergen-free home today.

