The background of the page is a photograph of a classroom. Students are seated at desks, and several have their hands raised. A teacher is visible in the background near a chalkboard. A semi-transparent blue rectangle is overlaid on the right side of the image, containing the title text.

Importance of Air Purifiers

For Educational Centers

How air pollutants affect students and teachers in a classroom



Increased absence



Impact on respiratory health and performance due to long hours in a closed area



Low productivity



Increased risk of spread of communicative diseases



Allergic reactions to dust, pollen, etc.



Are you looking for a holistic and healthy solution for your children?

Studies have shown that air purifiers can help eliminate indoor air contaminants including allergens, pollen, bacteria, and even viruses.

Why do you need an air purifier in school classrooms?

- COVID -19 particles can live in the air for up to three hours. Airborne infection is 15-20 times more likely to occur indoors than outdoors.
- Experts recommend that air quality and ventilation must be periodically checked in classrooms. It has now become more important than ever as we fight novel viruses.
- More ventilation (air movement) and better filtration (air cleaning) can cut down on the number of airborne particles that linger when an infected person coughs or exhales indoors.
- Most classrooms have insufficient ventilation.
- Indoor pollutants have less obvious consequences on people, but have effects that can be felt in the long-term.
- Air purifiers eliminate viruses, allergens, molds, and odors for better air quality.





Why should you choose Daikin's air purifier?

Currently, schools are equipped with natural or untreated ventilation. This leads to an increase in air contamination and air quality. However, upgrading buildings to install fresh air mechanisms can lead to massive investment and infrastructure modification which is not always feasible.

This is why air purifiers are the most convenient and effective solutions for regular filtration and sterilization of indoor air, in lieu of mechanical fresh air.



Powerful suction technology

Takes in air over a wide area, up to 41m² from 3 directions while maintaining whisper quiet atmosphere



HEPA filter

Efficiently catches dust, pollutants, and allergens through an electrostatic filter



Streamer technology

Decomposes harmful substances such as viruses, bacteria, mold spores, etc. using the oxidation process



Fresh air

Controls odors so that classrooms always remain fresh and clean



Clean and healthy air

Minimizes asthma and allergy symptoms by removing dust particles and pollen, and keeps your children healthy by filtering airborne bacteria and viruses

Triple detection sensor to quickly detect PM2.5

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



Daikin's unique double method

Outside

Active plasma ion flow out

Plasma ion technology uses plasma discharge to release ions into the air, which combine with components of the air to form active species with strong oxidizing power like OH radical. They attach to the surface of fungi and allergens and decompose proteins in the air by oxidation.

Daikin's plasma ions have been proven safe relative to the effects 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

Concentration: 25,000 ions/cm^{*1}

Note:

*1 The number of ions per 1cm³ of air blown into the atmosphere measured near the air outlet during operation with maximum airflow.

Test conditions: temperature 25c^o, humidity 50 %

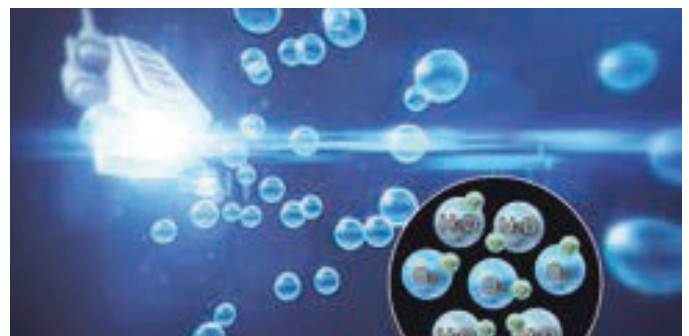
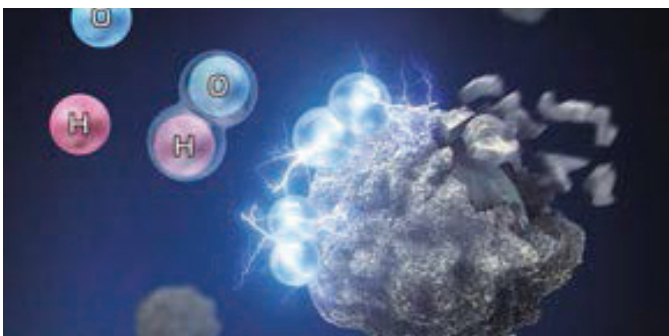


Image is for illustrative purposes

Streamer decomposes by suction

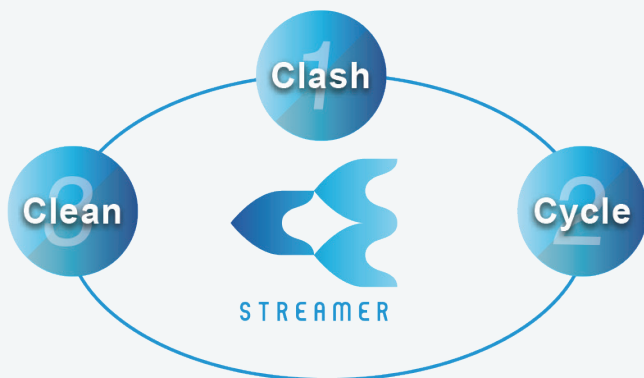
Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*2



Note:

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

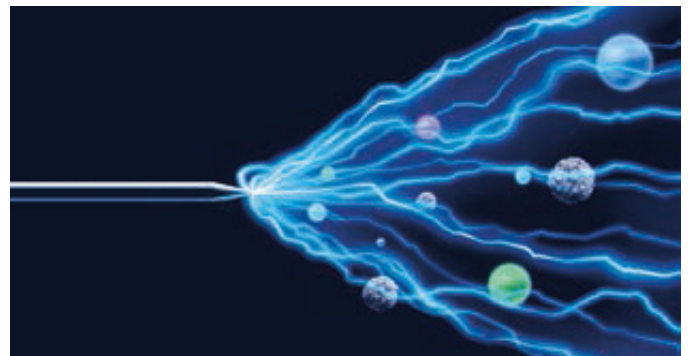
The 3 C's to Clean Air



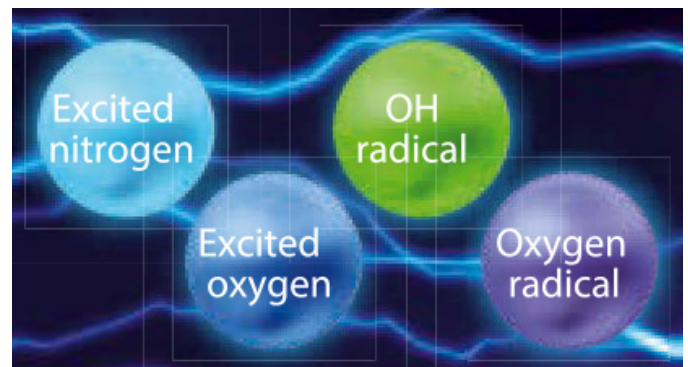
- Decomposes harmful substances on the dust collection filter by oxidation
- The deodorising filter absorbs and decomposes odour
- Removes bacteria from dust collection filter

Mechanism of decomposition by Streamer

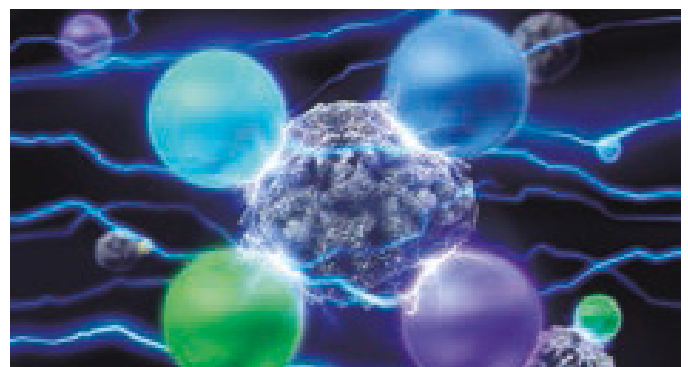
Streamer emits high-speed electrons.



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



The decomposing elements provide decomposition power.



MC55VB

- › Pure air thanks to air purification technologies
- › Catches fine particles of dust
- › Powerful suction and whisper quiet
- › New stylish and compact design



Single Unit				MC55VB	
Application				Floor standing type	
Applicable room area			m ²	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	Quiet/ Low/Standard/ Turbo	m ³ /h	66 / 120 / 192 / 330
	Sound pressure level	Air purifying operation	Quiet/ Low/Standard/ Turbo	dB(A)	19 / 29 / 39 / 53
Air purifying operation	Power input		Quiet/ Low/Standard/ Turbo	kW	0.008 / 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. 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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