

# CERTIFIED WORLDWIDE

PLASMACLUSTER—PROVEN EFFICACY. ENHANCING YOUR LIFE.

### Georgia

- Efficacy proven in clinical trials
- National Centre of Tuberculosis and Lung Disease

### Germany

- Fungi
- University of Lübeck
- Dr. Gerhard Artmann, Aachen University of Applied Sciences
- Bacteria
- University of Lübeck
- Dr. Gerhard Artmann, Aachen University of Applied Sciences
- Working mechanism of inhibitory effects on viruses, fungi, and bacteria
- Dr. Gerhard Artmann, Aachen University of Applied Sciences

### U.K.

- Viruses
- Retroscreen Virology

### Japan

- Efficacy proven in clinical trials
- Graduate School of Medicine, University of Tokyo / Public Health Research Foundation
- Faculty of Science and Engineering, Chuo University / Clinical Research Support Centre, University Hospital, University of Tokyo
- Animal Clinical Research Foundation
- Soiken Inc.
- School of Bioscience and Biotechnology, Tokyo University of Technology
- HARG Treatment Centre, National Trust Co., Ltd.
- Viruses
- Kitasato Research Centre of Environmental Sciences
- Kitasato Institute Medical Centre Hospital
- Shokukanken Inc.
- Allergens
- Department of Biochemistry and Molecular Pathology, Graduate School of Medicine, Osaka City University
- Graduate School of Advanced Sciences of Matter, Hiroshima University
- Fungi
- Shokukanken Inc.
- Ishikawa Health Service Association
- Japan Food Research Laboratories

### Bacteria

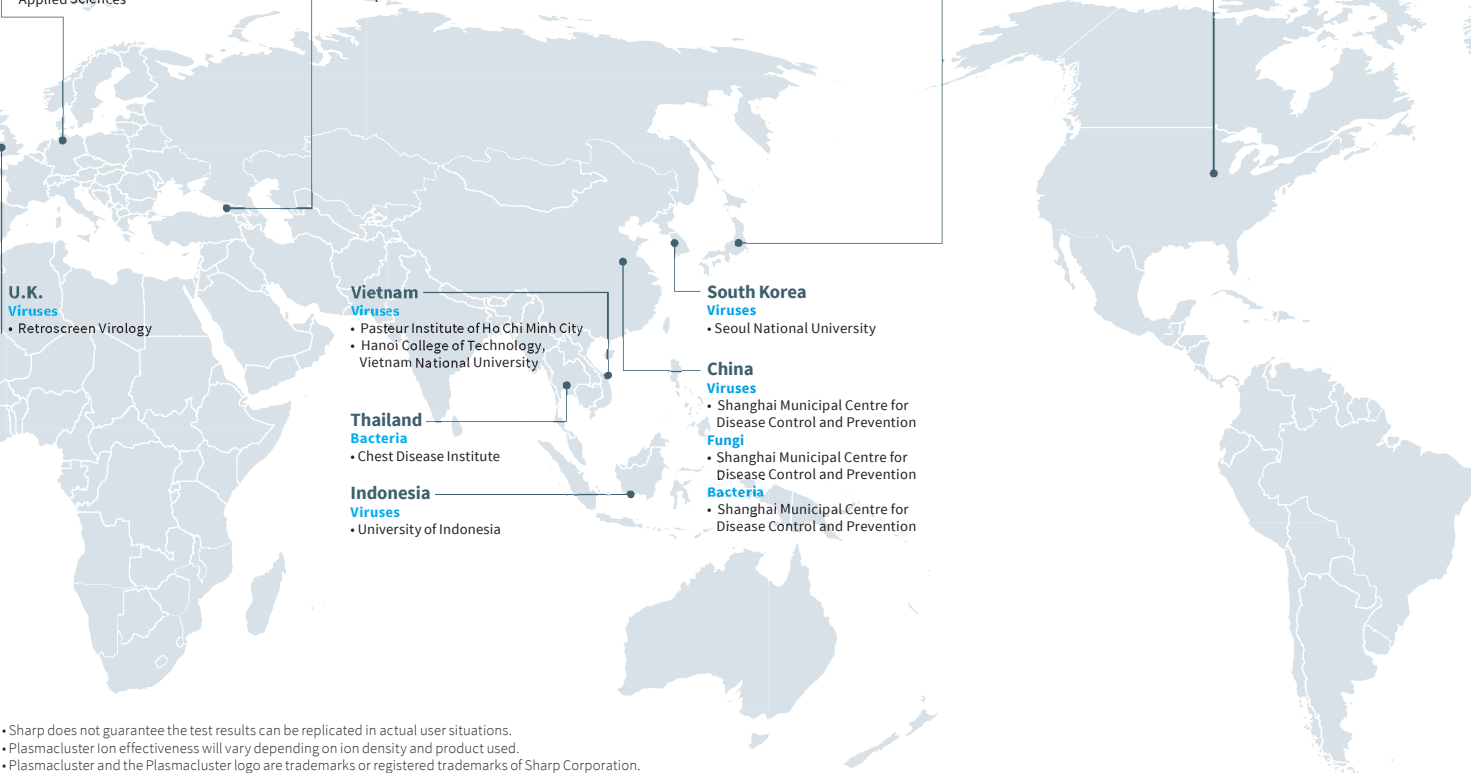
- Ishikawa Health Service Association
- Kitasato Research Centre of Environmental Sciences
- Kitasato Institute Medical Centre Hospital
- Animal Clinical Research Foundation
- Japan Food Research Laboratories
- Shokukanken Inc.
- Odours, pet smells
- Boken Quality Evaluation Institute
- Skin beautifying effects
- School of Bioscience and Biotechnology, Tokyo University of Technology
- Hair beautifying effects
- Saticine Medical Co., Ltd.
- C.T.C Japan, Ltd.
- Working mechanism of inhibitory effects on allergens
- Graduate School of Advanced Sciences of Matter, Hiroshima University
- Working mechanism of skin moisturising (water molecule coating) effect
- Research Institute of Electrical Communication, Tohoku University

### U.S.A.

- Bacteria
- Dr. Melvin W. First, Prof. Emeritus, Harvard School of Public Health



TESTED BY 28 INSTITUTES AND ORGANISATIONS

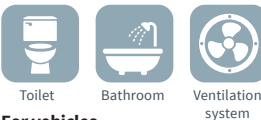


- Sharp does not guarantee the test results can be replicated in actual user situations.
- Plasmacluster ion effectiveness will vary depending on ion density and product used.
- Plasmacluster and the Plasmacluster logo are trademarks or registered trademarks of Sharp Corporation.

## USED IN A VARIETY OF INDUSTRIES

YOU NEVER HAVE TO BE WITHOUT IT

### For homes



### For vehicles



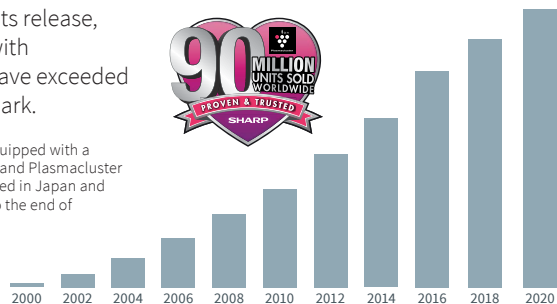
### For buildings



## OVER 90 MILLION PRODUCTS SOLD IN 18 YEARS

In the 20 years since its release, products equipped with Plasmacluster ions have exceeded the 90-million-unit mark.

- Total number of products equipped with a Sharp Plasmacluster device and Plasmacluster ion generating devices shipped in Japan and abroad from October 2000 to the end of September 2020.



SHARP

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Sharp Malaysia | [my.sharp](https://my.sharp)



SHARP



Plasmacluster  
only from SHARP

20<sup>th</sup> Years Anniversary

AIR PURIFIER &  
ION GENERATOR  
CATALOGUE



Proven To Generate Pure, Safe Air







# PURIFY AIR WITH THE SAME IONS AS IN NATURE

## PLASMACLUSTER – ONLY FROM SHARP



Plasmacluster ions are positive and negative ions that occur in nature.

Plasmacluster is air-purifying technology. Its effectiveness has been supported by test data, and Plasmacluster is thus increasingly finding applications in various areas of activity, such as in businesses, in addition to household use.

Plasmacluster provides you with natural and safe air. This unique technology from Sharp applies the power of nature.

## SHARP'S ORIGINAL TECHNOLOGY

Sharp's patented Plasmacluster air purifying technology removes airborne mould and viruses by generating healthy positive and negative ions.



**Winner of the 2008 Invention Prize**  
National Invention Awards Ceremony held by the Japan Institute of Invention and Innovation (JIII)

Patented by Sharp (patent number 3680121)

## ASSURED SAFETY

GLP\*-compliant test facilities have gathered highly reliable safety data on Sharp's Plasmacluster technology.

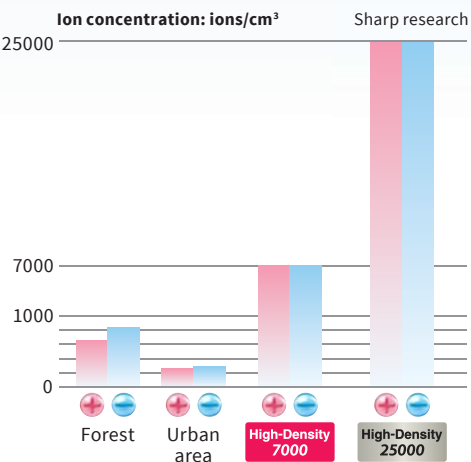
\* GLP (good laboratory practice) is a system of management controls for test facilities and test procedures designed to ensure the reliability of chemical safety assessment tests.

Purpose	Test name (abbreviation)	Ion density setting
Skin irritancy (general condition)	Acute skin irritation/corrosion	Approx. 1,000,000 ions/cm <sup>3</sup>
Eye irritancy (general condition)	Acute eye irritation/corrosion	Approx. 13,000,000 ions/cm <sup>3</sup>
Gene toxicity (general condition)	Inhalation toxicity (evaluation of genetic effect on pulmonary tissue)	Approx. 7,000,000 ions/cm <sup>3</sup>
Body and organ toxicity (general condition)	Inhalation toxicity	Approx. 7,000,000 ions/cm <sup>3</sup>
Pregnant woman and fetus toxicity (general condition)	Inhalation toxicity	Approx. 7,000,000 ions/cm <sup>3</sup>

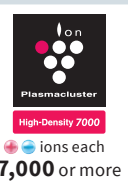
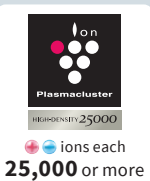
Testing institution: LSI Medience Corporation

## THE SAME SAFE IONS AS IN NATURE

Plasmacluster Technology emits more positive and negative ions in a room than even those found in a forest and is proven to be safe, no matter how high the density of ions.



Numbers of + and - ions per 1 cm<sup>3</sup> when measured near the centre of a room (at a height of 1.2 m from the floor) with the product placed at a wall:







# PLASMACLUSTER – PROVEN TO ELIMINATE AIRBORNE CONTAMINANTS.



The number in this technology mark indicates the approximate number of ions supplied into 1 cm<sup>3</sup> of air. This is measured around the centre of a room (at a height of 1.2 m above the floor) with the applicable floor area and at the maximum airflow when a Plasmacluster ion generator using a high-density Plasmacluster ion-generating device is placed close to a wall.

## PLASMACLUSTER IONS CLEAN THE ROOM AIR



### Removal of Airborne Mould

HIGH-DENSITY 25000 High-Density 7000

Result after approx. 49 minutes in a testing space of approx. 25 m<sup>3</sup>.

### Suppressing the Activity of Adhering Viruses

HIGH-DENSITY 25000

Result after approx. 10 hours in an airtight testing space of approx. 25 m<sup>3</sup>.

### Reducing Growth of Adhering Mould

HIGH-DENSITY 25000

Result after approx. three days (one day as 24 hours) in a testing space of approx. 20 m<sup>3</sup>.

### Suppressing the Activity of Airborne Microbes

HIGH-DENSITY 25000 High-Density 7000

Result after approx. 51 minutes in a testing space of approx. 25 m<sup>3</sup>.

### Suppressing the Activity of Airborne Viruses

HIGH-DENSITY 25000 High-Density 7000

Result after approx. 18 minutes in an airtight testing space of approx. 25 m<sup>3</sup>.

### Suppressing the Activity of Airborne Allergens from Dust Mite Feces and Remains

HIGH-DENSITY 25000 High-Density 7000

Result after approx. 51 minutes in a testing space of approx. 25 m<sup>3</sup>.



## PLASMACLUSTER IONS AND AIR-PURIFICATION TECHNOLOGY REMOVE HAZE

Sharp's Plasmacluster Ion Technology Has A Proven Effect on Haze in A Study Conducted With University Putra Malaysia.

Plasmacluster Ions Reduce 98% of Toluene and 70% of Pentanone.

Air-Purification Technology Removes 99% of Haze Particles as Small as 0.06 µm in Size.



## REMOVING STUBBORN ODOURS WITH PLASMACLUSTER

### Breakdown and Elimination of Clinging Odours

HIGH-DENSITY 25000 High-Density 7000

Breakdown and Removal of Clinging Cigarette Odour Result after approx. 55 minutes for a model in the same class as FP-J60 and approx. 90 minutes for the FP-F30 in a testing space of approx. 41 m<sup>3</sup>.

Spot Deodorisation of Sweat Odour Clinging to Clothing in Approx. Six Hours.

Spot Deodorisation of Damp-dry Odour on Clothes Drying Indoors in Approx. Three Hours.



## SKIN-BEAUTIFYING EFFECTS OF HIGH-DENSITY PLASMACLUSTER IONS

### Beautifying Skin with a Lustrous Sheen

HIGH-DENSITY 25000

Result after approx. 20 minutes in a testing space of approx. 41 m<sup>3</sup>.



## REDUCTION OF STATIC ELECTRICITY

### Reducing Static Electricity

HIGH-DENSITY 25000 High-Density 7000

Result after approx. 2.7 minutes for a model in the same class as the FP-J60 and approx. 13 minutes for the FP-F30 in a testing space of approx. 41 m<sup>3</sup>.





# HOW AIRBORNE ALLERGENS CAN POLLUTE YOUR HOME AND OFFICE

## A USE IN CARS

Odours from eating food, smoking cigarettes or mould are easily trapped in the interior of a car, preventing you from driving in comfort.



### Recommendation

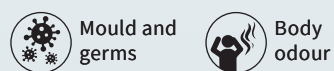
Recommended Area Size:  
3.6m<sup>3</sup>



Plasmacluster Ion  
Generators for Car Use

## B CLOSETS

The air in a closet can easily become stagnant, causing mould to grow and persistent sweat odours.



### Recommendation

Recommended Area Size:  
1.65m<sup>2</sup> - 23 m<sup>2</sup>



## C SMALL ROOMS (FOR CHILDREN OR PETS)

As children have a weaker immune system than adults, it is vital to provide them with a clean air environment, free from dust, germs, pet hair and other impurities.



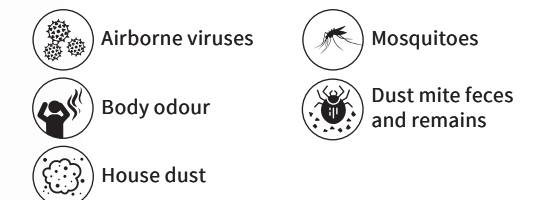
### Recommendation

Recommended Area Size:  
21 m<sup>2</sup> - 30 m<sup>2</sup>



## D BEDROOMS / MEETING ROOM

Lingering odours of sweat, lurking dust mites, or their feces and remains can prevent you from sleeping comfortably.



### Recommendation

Recommended Area Size:  
30 m<sup>2</sup> - 50 m<sup>2</sup>



## E LIVING ROOMS / OFFICE SPACE

Family members often gather here and the air contains invisible contaminants such as viruses, germs, haze, and other allergens.



### Recommendation

Recommended Area Size:  
40 m<sup>2</sup> - 62 m<sup>2</sup>





# AIR PURIFIERS WITH HUMIDIFYING



## 7 DETECTION INTELLIGENT AUTOMATIC OPERATION



PM2.5



USUAL DUST



ODOUR  
(KC-G60/G50)



TEMPERATURE



HUMIDITY

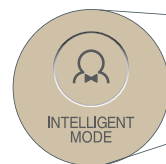


LIGHT



MOTION  
(KC-G60/G50)

With the press of a button, everything operates automatically. Humidifying and air purification are controlled according to various factors in the room. A motion sensor works in coordination with a light sensor to automatically switch to energy-saving mode.



INTELLIGENT  
MODE



## KC-G60/50/40L

### THREE-STEP DUST COLLECTION SYSTEM

1

#### REMOVE

Plasmacluster Ions Can Remove Mould\*, Viruses\*, Allergens\*, Odours\*, and Static Electricity

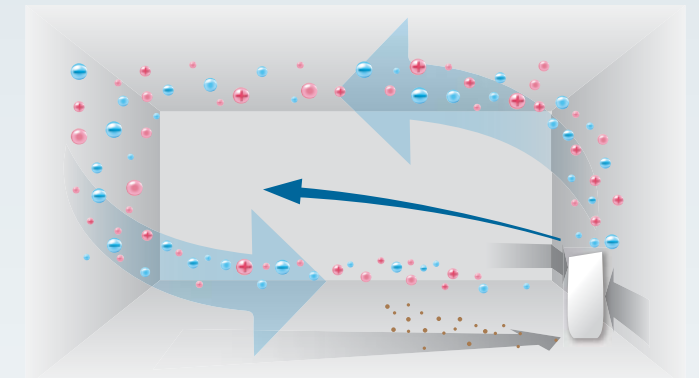


2

#### COLLECT

Powerful Air Suction and Unique Airflow Quickly and Efficiently Collect Dust and Other Particles

Faster airflow at a 20° angle collects dust at lower levels in the room for more effective cleaning.



Plasmacluster can remove static electricity and can thus prevent dust from attaching to walls and other surfaces.

3

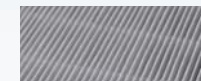
#### CAPTURE

Three Filters Effectively Capture Dust, Gas, and Odours.

Traps 99.97% Of Microscopic Particles  
(As Small As 0.3 Micron) In The Air.

HEPA Filter

PM 2.5



**Enlargement of HEPA Filter\*5**  
The larger the surface area of the filter, the more dust and other harmful particles are captured.

The filter measures as long as approx. **8 m** when fully extended.

Capture Microscopic Dust Particles

New Pre-filter

PM 10

Captures larger than approx. 240 micron dust particles, washable.

Absorbs cigarette odour, harmful gases in HAZE\* and many other common household odours.

Double  
Deodorising Filter

Harmful Gases



VOC  
(volatile organic compounds)  
NOx  
(nitrous oxides)  
SOx  
(sulfur oxides)

\* Toluene, Ethylbenzene, Xylene etc. The deodorising performance for a single component odour substance in a 1m³ test container may be different than the deodorising performance in actual use.

### WHAT THE HEPA FILTER\*5 CAPTURES

99.97%\*10 capture and removal of 0.3-micron dust particles

Tree pollen



Cedar, cypress, birch, alder, beech, red cedar, oak, pine

Grass pollen



Ragweed, wormwood, hop, orchard grass, vernal grass, timothy grass

Allergens



Dust mite feces, dust mite remains, dog dander, cat dander, hamster dander, mould

Airborne  
microbes



Viruses



Airborne  
mould



Black mould, Stachybotrys, Aspergillus niger, Penicillium

Dust



Dust, pet hair, pet dander, cigarette smoke, cooking fumes, mite dust, diesel exhaust particles, Asian dust

Odours



From cigarettes, pets, cooking, kitchen food waste, toilet, body, mould, ammonia

\*1 99% of airborne mould was removed in a test space of 31 m³ after 195 min. of use (tested by Ishikawa Health Services Association). \*2 99% of airborne viruses were removed in a closed test space of 25 m³ after 18 min. of use (tested by Pasteur Institute, Ho Chi Minh City). \*3 Effectiveness in a test space of 31 m³ after four weeks of use (one day: 24 hours) (tested by Hiroshima University Graduate School of Advanced Sciences of Matter). \*4 Effectiveness in a test space of 41 m³ after 80 min. of use. The effectiveness depends on the odour type, odour intensity, and material of object measured (tested by Sharp). \*5 The filter captures more than 99.97% of 0.3-micron dust particles. \*6 When smoking five cigarettes a day. Depending on the usage conditions, filter replacement may be required. \*7 Deodorising performance depends on the room conditions. \*8 Tested by the Boken Quality Evaluation Institute. Test method: JIS Z 2801 standard test. Anti-microbial method: Infusing filter with anti-bacterial agents. Test result: 99% removal. Object tested: Microbes adhering to rear panel filter. \*9 Tested by the Boken Quality Evaluation Institute. Test method: Mould resistance test according to the JIS Z 2911 standard. Mould prevention method: Infusing filter with anti-mould agents. Test result: No mould growth. \*10 This value applies to filter removal performance, not to removal for the entire room. **Dust removing and deodorising performance of air purifiers** • Not all harmful substances in cigarette smoke, e.g., carbon monoxide, can be removed. • Not all commonly occurring odours, e.g., building material odours and pet odours, can be removed. • The filter itself may produce an odour and need to be replaced after several months if the air purifier is used to reduce strong odours, such as cigarette smoke or grilled meat. Use the air purifier in combination with room ventilation if it is used for strong odours.





## EASY CONVENIENCE AT THE TOUCH OF A BUTTON! ENJOY AUTO HUMIDIFYING AND PURIFICATION.

### PLASMACLUSTER SPOT MODE

A high-density concentration of Plasmacluster ions are discharged forward. This is effective in removing odours, bacteria, and viruses clinging to more inaccessible areas of the room.

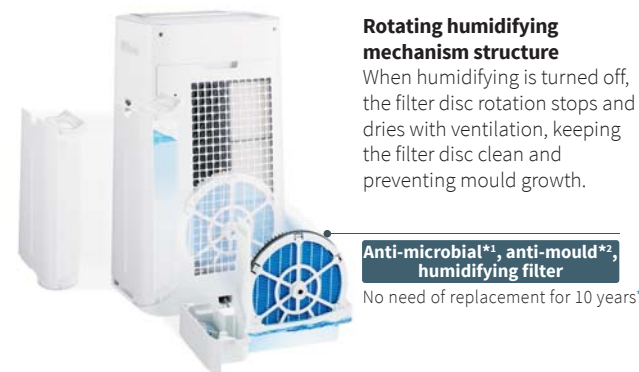


#### Effect of Plasmacluster Spot Mode Deodorisation and Bacteria Removal

Removal of Clinging Odours					Removal of clinging bacteria
Cigarette odour	Pet odour	Odour of wet clothes drying indoors	Sweat odour	Cooking odour	Clinging bacteria
Approx. 30 minutes	Approx. 6 hours	Approx. 3 hours	Approx. 6 hours	Approx. 2 hours	Approx. 8 hours

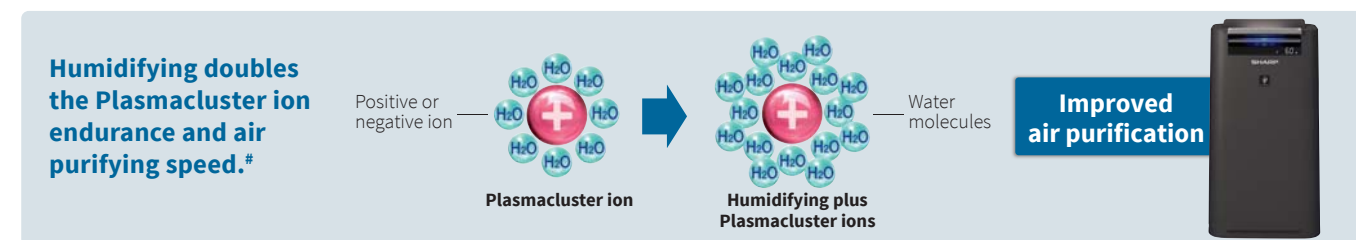
\* Effect after the above times at a position approx. 70 cm from the floor and 1 m from the front discharge outlet.

### AUTOMATICALLY ROTATING HUMIDIFYING STRUCTURE CREATES CLEAN HUMIDITY CONDITIONS



#### Comfortable Humidity Indoors Keeps Your Skin and Throat Moisturised and Healthy

Minute water molecules from moisture delivered by vapor humidifying prevent nose and throat dryness.



\*1 • Tested by the Boken Quality Evaluation Institute • Test method: JIX Z2801 standard test • Anti-microbial method: Infusing filter with anti-bacterial agents • Test result: 99% removal \*2 • Tested by the Boken Quality Evaluation Institute • Test method: Mould resistance test according to the JIS Z 2911 standard • Mould prevention method: Infusing filter with anti-mould agents • Test result: No mould growth \*3 Time for the humidifying performance to decrease by 50% relative to the rated humidifying performance assuming eight hours of operation per day. The filter service life depends on the room conditions and usage. Periodic cleaning is required. \* The number in this technology mark indicates the approximate number of ions supplied into 1 cm<sup>3</sup> of air, which is measured around the centre of a room (at a height of 1.2 m above the floor) with the applicable floor area at the maximum airflow, when a Plasmacluster ion generator using a high-density Plasmacluster ion-generating device is placed close to a wall. • Tested by Japan Food Research Laboratories • Test method: Plasmacluster ions were discharged into a test chamber with a floor area of about 8 m<sup>2</sup>, airborne mould was measured with an air sampler, and the approximate values for the condition with humidifying and the condition without humidifying were compared.

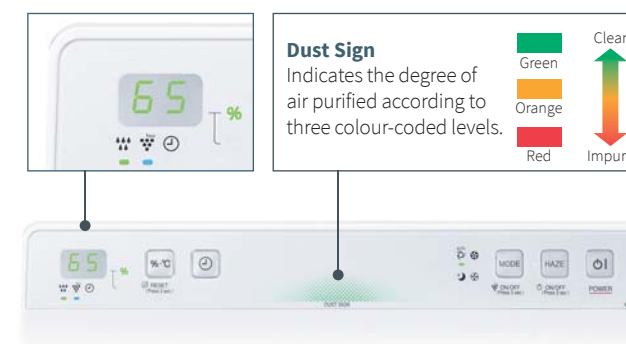


### SIMPLE OPERATION

#### Off Timer for Convenient Use

The off timer can be set to 1, 2, 4, and 8 hours.

#### Monitor for Dust and Displays for Humidity and Temperature



### FLOATING HUMIDIFICATION SYSTEM

#### Fill the Humidifying Tray Directly with Tap Water

Humidity is kept constant, and controlled through adjustment of the airflow by sensors detecting the temperature and humidity levels in the room.





## KC-G60L



Recommended Room Size:  
**50 m<sup>2</sup>\*1**

Humidifying  
**30 m<sup>2</sup>\*2**

-W (White)



- 20° Airflow Angle
- Intelligent Auto Operation
- HAZE Mode
- Sleep Mode
- Plasmacluster Ion Spot
- Dust, Odour, Temperature and Humidity Sensor
- Light Sensor
- Motion Sensor
- Child Lock
- Timer (ON/OFF)
- Rotating Humidifying Filter
- HEPA Filter
- Double Deodorising Filter
- Anti Microbial/Mould Fine Meshed Rear Panel

## KC-G50L



Recommended Room Size:  
**38 m<sup>2</sup>\*1**

Humidifying  
**21 m<sup>2</sup>\*2**

-W (White)



- 20° Airflow Angle
- Intelligent Auto Operation
- HAZE Mode
- Sleep Mode
- Plasmacluster Ion Spot
- Dust, Odour, Temperature and Humidity Sensor
- Light Sensor
- Motion Sensor
- Child Lock
- Timer (ON/OFF)
- Rotating Humidifying Filter
- HEPA Filter
- Double Deodorising Filter
- Anti Microbial/Mould Fine Meshed Rear Panel

## KC-G40L



Recommended Room Size:  
**28 m<sup>2</sup>\*1**

Humidifying  
**18 m<sup>2</sup>\*2**

-W (White)

-H (Gray)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Plasmacluster Ion Spot
- Dust, Odour, Temperature and Humidity Sensor
- Light Sensor
- Child Lock
- Timer (ON/OFF)
- Rotating Humidifying Filter
- HEPA Filter
- Double Deodorising Filter
- Anti Microbial/Mould Fine Meshed Rear Panel

## KC-F30L



Recommended Room Size:  
**21 m<sup>2</sup>**

Humidifying  
**16 m<sup>2</sup>**

-W (White)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Timer (OFF)
- Dust Sensor
- HEPA Filter
- Deodorising Filter
- Humidity and Temperature Display
- Dust Indication Monitor
- Auto Restart



### APPROVED BY THE BRITISH ALLERGY FOUNDATION

The British Allergy Foundation has tested KI, KC, and FU-series Sharp Plasmacluster air purifiers and verified that airborne allergens including dust mite feces and remains, as well as pollen, are removed.

\*1 Measured based on the JEMM 1467 standard of the Japan Electrical Manufacturers' Association. \*2 Recommended room size is measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association.

## SPECIFICATIONS

### AIR PURIFIERS WITH HUMIDIFYING



Models		KC-G60L	KC-G50L	KC-G40L	KC-F30L
Colour		- W (White)	- W (White)	- W (White), - H (Charcoal Gray)	- W (White)
Humidifying	Humidifying system	Natural vaporisation	Natural vaporisation	Natural vaporisation	Natural vaporisation
	Tank capacity	3.0 L	2.5 L	2.5 L	1.8 L
	Humidifying capacity*2	630 mL / hour	450 ml / hour	400 ml / hour	350 mL / hour
Recommended area	Air purifying*1	50 m <sup>2</sup>	38 m <sup>2</sup>	28 m <sup>2</sup>	21 m <sup>2</sup>
	Humidifying*2	30 m <sup>2</sup>	21 m <sup>2</sup>	18 m <sup>2</sup>	16 m <sup>2</sup>
Recommended area for high-density Plasmacluster ions*3		35 m <sup>2</sup>	28 m <sup>2</sup>	21 m <sup>2</sup>	17 m <sup>2</sup>
Operation modes		Max / Med / Low / Pollen / Sleep	Max / Med / Low / Pollen / Sleep	Max / Med / Low / Pollen / Sleep	Max / Med / Auto / Sleep
Voltage / frequency (V, Hz)		220-240, 50-60	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power input (W)	Without humidifying	72 / 38 / 5.0	53 / 26 / 5.0	31 / 12 / 5.0	27 / 12 / 4.1
	With humidifying	55 / 40 / 6.5	33 / 14 / 6.5	24 / 14 / 6.5	27 / 12 / 4.1
Standby power (W)		1.2	1.2	1.2	0.9
Inverter operation		Yes	Yes	Yes	Yes
Airflow (Max/Med/Low) (m <sup>3</sup> /hour)	Without humidifying	408 / 240 / 72	306 / 180 / 60	240 / 120 / 60	180 / 125 / 52
	With humidifying	342 / 240 / 72	240 / 120 / 60	210 / 120 / 60	180 / 125 / 52
Noise level (Max / Med / Low) (dB)	Without humidifying	53 / 48 / 24	52 / 47 / 19	46 / 40 / 19	48 / 38 / 21
	With humidifying	49 / 48 / 24	46 / 40 / 20	43 / 40 / 20	48 / 38 / 21
Special programme mode		Intelligent, Haze	Intelligent, Haze	Auto, Haze	Auto, Haze
Auto restart		Yes*5	Yes*5	Yes*5	Yes*5
Child lock		Yes*6	Yes*6	Yes*6	No
Timer		Yes (on / off)	Yes (on / off)	Yes (on / off)	Yes (off)
Filter type	Dust collection	HEPA*7	HEPA*7	HEPA*7	HEPA*7
	Deodorisation	Double deodorisation	Double deodorisation	Double deodorisation	Yes
	Pre-filter	Fine-meshed	Fine-meshed	Fine-meshed	Yes
	Humidifying	Yes	Yes	Yes	Yes
Filter life	Dust collection	Up to 10 years*8	Up to 10 years*8	Up to 10 years*8	Up to 2 years*8
	Deodorising filter	Up to 10 years*8	Up to 10 years*8	Up to 10 years*8	Up to 2 years*8
	Humidifying filter	Up to 10 years	Up to 10 years	Up to 10 years	Up to 5 years
Sensor	Odour	Yes	Yes	No	No
	Dust	Yes	Yes	Yes	Yes
	Temperature & humidity	Yes	Yes	Yes	Yes
	Light	Yes	Yes	Yes	No
	Motion	Yes	Yes	No	No
Clean sign indicator		Yes	Yes	Yes	Yes
Light control button		Yes (bright/dim/off)	Yes (bright/dim/off)	Yes (bright/dim/off)	Yes (bright/off)
Power cord length (m)		2.0	2.0	2.0	2.0
		Type C (2-pin)	Type C (2-pin)	Type C (2-pin)	Type C (2-pin)
Dimensions (W x H x D) (mm)		370 x 660 x 293	345 x 631 x 262	345 x 631 x 262	380 x 570 x 197
Net weight (kg)		10.5	9.2	9.2	7.2
Replacement filter	HEPA filter	FZ-D60HFE	FZ-D40HFE	FZ-D40HFE	FZ-F30HFE
	Deodorising filter	FZ-G60DFE	FZ-G40DFE	FZ-G40DFE	FZ-F30DFE
	Humidifying filter	FZ-G60MFE	FZ-G60MFE	FZ-G60MFE	FZ-F30MFE

Plasmacluster ion purification	Airborne microbes	Airborne mould	Airborne microbes	Airborne viruses	Dust mite remains allergens	Dust mite feces allergens	Ammonia odour
	Clinging odours	Cigarette odour	Body odour				
Filter purification	Capture and reduction of growth	Airborne microbes	Viruses	Tree pollen	Dust mite remains	Dust mite feces	
	Deodorising	Cigarette odour	Pet odour	Body odour	Mould odour	Ammonia odour	Cooking odour
	Capture	Airborne mould	Plant pollen	Tree pollen	Pet dander	Pet hair	Dust

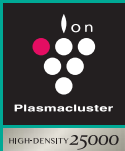
\*1 Recommended room size: Measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association. \*2 Measurement conditions: 20°C, 30% humidity (JEM1426). \*3 Size of a room in which approximately 7,000 ions can be measured per cm<sup>3</sup> in the centre of the room (at a height of approximately 1.2 meters from the floor) when the product is placed next to a wall and operated at the maximum operation position. \*4 Ion density about 1.5 times higher for 60 minutes in the applicable room size. \*5 The air purifier automatically resumes operation when power returns, even after a sudden power interruption, such as due to a circuit breaker. \*6 By pressing the Child Lock button for more than three seconds, the operation buttons are locked to help prevent inadvertent operation by children or pets. \*7 HEPA is defined by the JEM1467 standard of the Japan Electrical Manufacturers' Association Standard. The filter removes more than 99.97% of 0.3-micron dust particles. \*8 At a smoking rate of five cigarettes per day. \*9 Volatile organic compound (VOC), Nitrous oxides (NOx), Sulfur oxides (SOx). The effectiveness of reducing three volatile organic compounds (formaldehyde, toluene, and ethyl acetate) was tested by Sharp. \*10 Toluene, Ethylbenzene, Xylene etc. The deodorising performance for a single component odour substance in a 1m<sup>3</sup> test container may be different than the deodorising performance in actual use.

\* The number in this technology mark indicates the approximate number of ions supplied into 1 cm<sup>3</sup> of air, which is measured around the centre of a room (at a height of 1.2 m above the floor) with the applicable floor area at the maximum airflow, when a Plasmacluster ion generator using a high-density Plasmacluster ion-generating device is placed close to a wall.

● The filter itself may produce an odour and need to be replaced after several months if the air purifier is used to reduce strong odours, such as cigarette smoke or grilled meat. ● Use the air purifier in combination with room ventilation if it is used for strong odours. ● Not all harmful substances in cigarette smoke (e.g., carbon monoxide) can be removed. ● Not all commonly occurring odours (e.g., pet odours) can be removed. ● Heat from air drawn in is lost when water evaporates from the humidifier filter, so the temperature of the outgoing airflow is lower than the room temperature. ● Use tap water to fill the water tank.

Design and specifications are current as of September 2019, but are subject to change without prior notice. Actual colours may differ slightly from the colours shown in this brochure.





# AIR PURIFIERS WITH PLASMACLUSTER



## ENJOY AIoT SMART AIR PURIFIER

### SMART SYSTEM

- Home Fit Operation
- Monitor for Outdoor/Indoor Air Quality
- Propose optimal timing for filter exchange



### PLASMACLUSTER

The higher the PCI density, the more effective Plasmacluster, is.

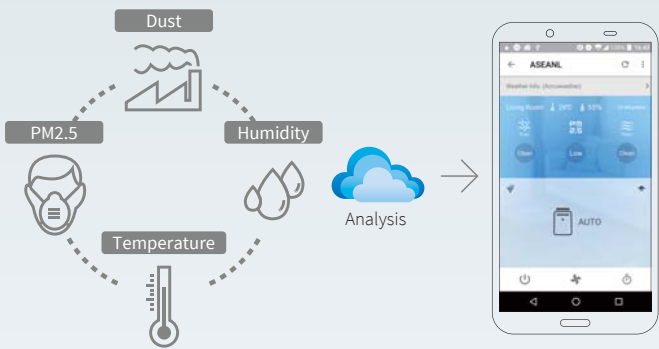
## FP-J80/J60/J50L/J40L CLEANER AIR. SMART FUNCTIONS.

### REMOTE CONTROL (FP-J80/50L)



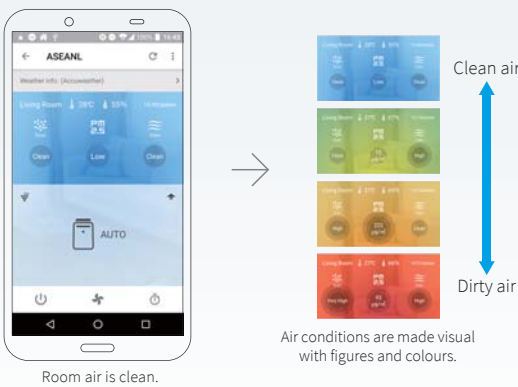
### HOME FIT (FP-J80/50L)

Visualisation of air quality and automatic operation based on air quality level.



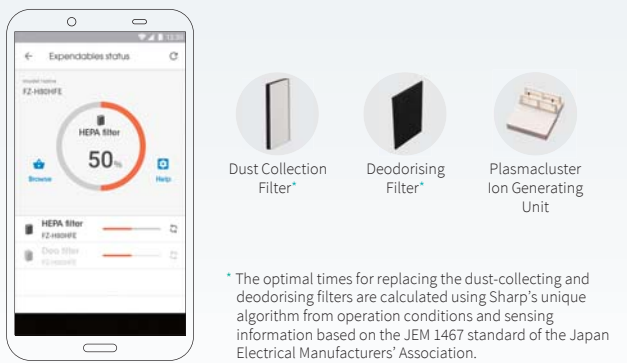
### VISUALISATION FOR AIR QUALITY (FP-J80/50L)

Confirms that the condition of air quality of the room has become clean, visually.



### FILTER STATUS MONITOR (FP-J80/50L)

Proposes optimal timing for filter exchange.



\* The optimal times for replacing the dust-collecting and deodorising filters are calculated using Sharp's unique algorithm from operation conditions and sensing information based on the JEM 1467 standard of the Japan Electrical Manufacturers' Association.

### SHARP AIR APP

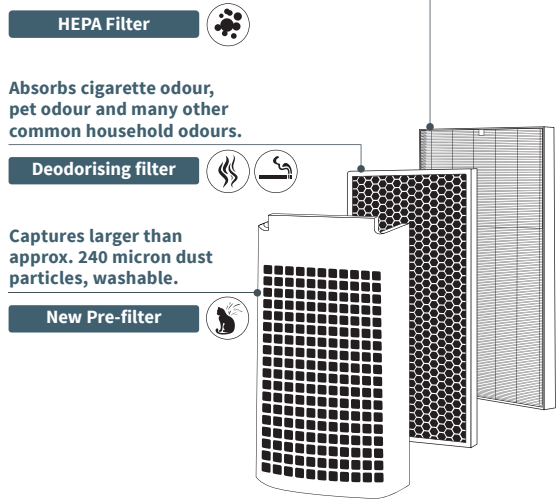


The "SHARP AIR APP" allows you to control your Air-Conditioner and Air Purifier via smartphone, anywhere, anytime. Monitor electricity consumption, room conditions etc. and get notified if appliances are in error.

### 3 STEPS FILTRATION

High-Performance Filters Capture Airborne Dust Particles.

Traps 99.97% Of Microscopic Particles (As Small As 0.3 Micron) In The Air.







# SHARP'S UNIQUE PLASMACLUSTER WITH EFFICIENT DUST COLLECTION DELIVERS CLEAN COMFORTABLE AIR IN YOUR ROOM

## PLASMACLUSTER

(HIGH-DENSITY 25000 : FP-J80/60L) (HIGH-DENSITY 7000 : FP-J50/40/30L)

Plasmacluster Ions can remove Mould\*<sup>1</sup>, Viruses\*<sup>2</sup>, Allergens\*<sup>4</sup>, Odours\*<sup>8</sup>, and Static Electricity. The higher the PCI density, the more effective Plasmacluster, is.

Air Purifying				Adhering		Reduction of Static Electricity* <sup>7</sup>	Removal of Odour			Skin-Beautifying Effects* <sup>11</sup>
Airborne				Mould* <sup>1</sup>	Viruses* <sup>2</sup>		Cigarette Odours* <sup>8</sup>	Spot Deodorisation Odours* <sup>9</sup>	Damp-dry Odours* <sup>10</sup>	
Mould* <sup>1</sup>	Viruses* <sup>2</sup>	Microbes* <sup>3</sup>	Allergens* <sup>4</sup>	Mould* <sup>1</sup>	Viruses* <sup>2</sup>					
				HIGH-DENSITY 25000*						
14 min	9 min	14 min	14 min	3 days	10 hours	2.7 min	55 min	6 hours	3 hours	20 min
49 min	18 min	51 min	51 min			13 min	90 min	6 hours	3 hours	
Testing space										
25 m <sup>3</sup>	25 m <sup>3</sup>	25 m <sup>3</sup>	25 m <sup>3</sup>	20 m <sup>3</sup>	25 m <sup>3</sup>	41 m <sup>3</sup>	41 m <sup>3</sup>			41 m <sup>3</sup>

\* The number in this technology mark indicates an approximate number of ions supplied into air of 1 cm<sup>3</sup>, which is measured around the centre of a room applicable floor area (at 1.2 m height above the floor) when the product is placed close to a wall at the MED mode setting.

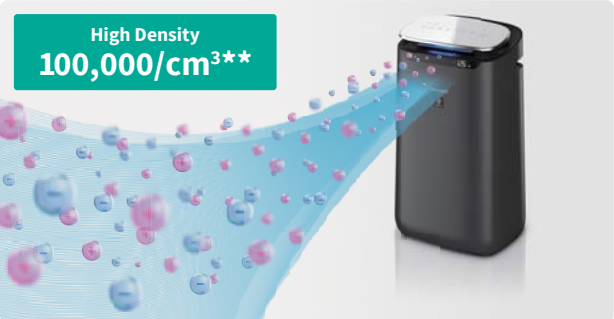
• Application design may be different from actual one or be updated as necessary.

<sup>1</sup> **Airborne Mould** • Tested by: Japan Food Research Laboratories • Test method: Performance evaluation test according to voluntary standard HD-131 of the Japan Electrical Manufacturers' Association in a testing space of approx. 25 m<sup>3</sup>. • Object tested: One type of airborne mould. ■ Test result: 99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60L operating at the High airflow setting. 99% reduction in approx. 49 minutes, tested with a model in the same class as the FP-F30L operating at the High airflow setting. <sup>2</sup> **Airborne Viruses** • Tested by: Pasteur Institute in Ho Chi Minh City, Vietnam • Test method: Performance evaluation test according to voluntary standard JEM 1467 of the Japan Electrical Manufacturers' Association in a testing space of approx. 25 m<sup>3</sup>. • Object tested: One type of airborne virus. ■ Test result: 99% reduction in approx. 9 minutes, tested with a model in the same class as the FP-J60L operating at the High airflow setting. 99% reduction in approx. 18 minutes, tested with a model in the same class as the FP-F30L operating at the High airflow setting. <sup>3</sup> **Airborne Microbes** • Tested by: Japan Food Research Laboratories • Test method: Performance evaluation test according to voluntary standard HD-131 of the Japan Electrical Manufacturers' Association in a testing space of approx. 25 m<sup>3</sup>. • Object tested: One type of airborne microbe. ■ Test result: 99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60L operating at the High airflow setting. 99% reduction in approx. 51 minutes, tested with a model in the same class as the FP-F30L operating at the High airflow setting. <sup>4</sup> **Airborne Allergens from Dust Mite Feces and Remains** • Tested by: ITEA Inc. • Test method: Allergens from dust mite feces and remains were suspended in the air in a testing space of approx. 25 m<sup>3</sup> and measured using the ELISA method. ■ Test result: 99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60L operating at the High airflow setting. 99% reduction in approx. 51 minutes, tested with a model in the same class as the FP-F30 operating at the High airflow setting. <sup>5</sup> **Adhering Mould** • Tested by: Shokukanken Inc. • Test method: Comparison of mould growth areas on a test plate with adhered mould with reference to JIS Z 2911. ■ Test result: Limitation of growth after 3 days. Tested with a model in the same class as the FP-J60L operating at the High airflow setting. <sup>6</sup> **Adhering Viruses** • Tested by:



## PLASMACLUSTER SPOT MODE (FP-J80/60L)

A high-density concentration of Plasmacluster ions is discharged. This is effective in removing odours, bacteria, and viruses clinging to more inaccessible areas of the room.



\*\* The number of ions supplied into air of 1 cm<sup>3</sup>, which is measured at a position approx. 70 cm from the floor and 1 m from the front discharge outlet.

### Effect of Plasmacluster Spot Mode Deodorisation and Bacteria Removal

Removal of Clinging Odours					Removal of clinging bacteria
Cigarette odour	Pet odour	Odour of wet clothes drying indoors	Sweat odour	Cooking odour	Clinging bacteria
Approx. 30 minutes	Approx. 6 hours	Approx. 3 hours	Approx. 6 hours	Approx. 2 hours	Approx. 8 hours

• Effect after the above times at a position approx. 70 cm from the floor and 1 m from the front discharge outlet.

Shokukanken Inc. • Test method: Performance evaluation test according to voluntary standard JEM 1467 of the Japan Electrical Manufacturers' Association in a testing space of approx. 25 m<sup>3</sup>. • Object tested: One type of adhering virus. ■ Test result: 99% reduction in approx. 10 hours. Tested with a model in the same class as the FP-J60L operating at the High airflow setting. <sup>7</sup> **Static Electricity** • Tested by: Sharp • Test method: Measurement of time required for a metal sensing plate charged to 5 kV to decrease in charge to 0.5 kV. ■ Test result: As described above. After approx. 2.7 minutes for a model in the same class as the FP-J60L and approx. 13 minutes for a model in the same class as the FP-F30L. <sup>8</sup> **Clinging Cigarette Odour** • Tested by: Sharp • Test method: The effectiveness of deodorising a cloth swatch impregnated with cigarette odour components was evaluated by using the six-level odour intensity indication method. ■ Test result: Deodorised to unnoticeable levels after approx. 55 minutes for a model in the same class as the FP-J60L and approx. 90 minutes for a model in the same class as the FP-F30L. <sup>9</sup> **Sweat Odour Clinging to Clothing** • Tested by: Sharp • Test method: The effectiveness of deodorising a cloth swatch impregnated with sweat odour components was evaluated by using the six-level odour intensity indication method. ■ Test result: Deodorised to unnoticeable level in about six hours. Tested with a model in the same class as the FP-F30L. <sup>10</sup> **Damp-dry Odour on Clothes Drying Indoors** • Tested by: Sharp • Test method: The effectiveness of deodorising a cloth swatch infused with damp-dry odour components on clothes drying indoors was evaluated by using the six-level odour intensity indication method. ■ Test result: Deodorised to unnoticeable level in approx. three hours. Tested with a model in the same class as the FP-F30L operating. <sup>11</sup> **Skin-Beautifying Effects** • Tested by: Solken Inc. • Subjects tested: 21 women, ages 36 to 63 • Temperature: Approx. 25 °C, Humidity: Approx. 45% • Test method: Measurement of skin moisture levels at the corners of the eyes of subjects at rest. ■ Test result: An effect of providing luster to skin after 20 minutes of operation was verified. Tested with a model in the same class as the FP-J60L operating with humidifying air purification at the Med setting.



FP-J80L



-H (Gray)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Plasmacluster Spot Mode
- Sleep Mode
- Dust, Odour, Light, Temperature & Humidity sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart
- Filter Replacement Indicator
- Humidity, Temperature, PM2.5 digital display

FP-J60L



-W (White)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Plasmacluster Spot Mode
- Sleep Mode
- Dust, Odour, Light Sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart
- Filter Replacement Indicator
- PM2.5 digital display

FP-J50L



-H (Gray)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Dust, Odour, Light, Temperature & Humidity Sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart
- Filter Replacement Indicator
- Application-weekly timer

FP-J40L



-W (White)



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Dust, Odour, Light Sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart
- Filter Replacement Indicator

CONVENIENT FEATURES FOR EVERYDAY COMFORT

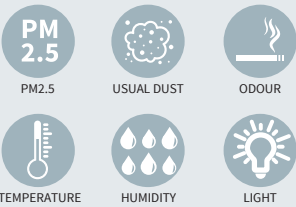
AUTOMATIC OPERATION

Once you press the button, everything operates by sensors automatically.

4 DETECTION FP-J60/40L



6 DETECTION FP-J80L



HAZE SPECIAL MODE

HAZE mode

Operates at HIGH fan speed for 60 minutes and then alternates between Low and High level for 20 minutes each.

CONVENIENT FUNCTION

Timer Function

- OFF Timer (2, 4, 8 hours) [FP-J40 / FP-J50]
- ON/OFF Timer (1-12 hours) [FP-J80/60L]  
(Can set it from 10 minutes to 24 hours through the designated application.) [FP-J80L]







THREE-STEP DUST COLLECTION SYSTEM WITH PLASMACLUSTER TECHNOLOGY

- 1 REMOVE**  
Plasmacluster Ions Reduce Static Electricity
- 2 COLLECT**  
Powerful Air Suction and Unique Airflow Quickly and Efficiently Collect Dust and Other Particles
- 3 CAPTURE**  
High-Performance Filters Capture Airborne Dust Particles

There are two types of static electricity charge: positive and negative. Negative ions can reduce only a positive charge.

Faster airflow at a 20° angle collects dust at lower levels in the room for more effective cleaning.

Removal of Micron-Size Dust Particles Including 0.3-Micron Viruses and Dust Allergens

FABRICS, WALLS AND FURNITURE

Negative charge

Positive charge

Plasmacluster can remove static electricity and can thus prevent dust from attaching to walls and other surfaces.

**Dust-Collecting HEPA Filter**

No need for replacement for 2 years\*  
\* When smoking five cigarettes a day

**Captures larger than approx. 240 micron dust particles, washable.**

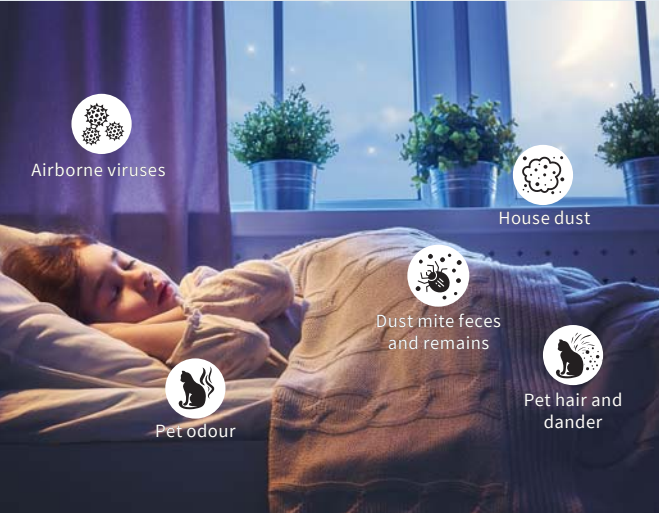
**New Pre-filter**

Pet hair/Large dust particle

PLASMACLUSTER IONS CAN REDUCE MOULD\*<sup>1</sup>, VIRUSES\*<sup>2</sup>, ALLERGENS\*<sup>3</sup>, ODOURS\*<sup>4</sup>, AND STATIC ELECTRICITY



SMOOTH, ROUNDED DESIGN THAT'S SAFE FOR CHILDREN



FP-J30L



-B (Black)



-A (Blue)

HIGH-DENSITY 7000

- Convenient Function
  - HAZE Mode
  - Sleep Mode
- Timer (OFF) - 4, 8 Hours
  - HEPA Filter
  - Filter Replacement Indicator\*\*
- Reliable Rounded Design
  - Auto Restart
  - 20° Airflow Angle

\*\* Informs replacement timing when used after a capacity of 24 hours a day for 2 years (17,520 hours) in sleep mode.

<sup>\*1</sup> 99% of airborne mould was reduced in a testing space of 25 m<sup>3</sup> in 49 mins. of use. (tested by Japan Food Research Laboratories) <sup>\*2</sup> 99% of airborne viruses were removed in a closed test space of 25 m<sup>3</sup> after 18 min. of use. (tested by Pasteur Institute, Ho Chi Minh City) <sup>\*3</sup> 99% of allergens from dust mite feces and remains were suspended in a testing space of 25 m<sup>3</sup> in 51 mins. (tested by ITEA Inc.) <sup>\*4</sup> Deodorised to unnoticeable levels after 90 minutes in a testing space of 41 m<sup>3</sup>. (tested by Sharp) \* The number in this technology mark indicates the approximate number of ions supplied into 1 cm<sup>3</sup> of air. This is measured around the centre of a room (at a height of 1.2 m above the floor) with the applicable floor area for High-density Plasmacluster 7000 at the maximum or medium airflow mode when an air purifier with humidifying or an air purifier using a high-density Plasmacluster ion-generating device is placed close to a wall. • These test results are for a Plasmacluster ion generator in a test space of approx. 25 m<sup>3</sup> to 41 m<sup>3</sup>. Equivalent ion densities mean that the effectiveness is the same. • The effectiveness of Plasmacluster ions depends on the usage conditions (e.g., temperature, humidity, room area, position of the ion-generating device, and use of air conditioner or ventilation) and the usage method (e.g., Plasmacluster ion dispersion direction, operation mode, and operation time). "Plasmacluster" and "Device of a cluster of grapes" are trademarks of Sharp Corporation.



SPECIFICATIONS
AIR PURIFIERS WITH PLASMACLUSTER



Models		FP-J30L	FP-J40L
Colour		B (Black), A (Blue)	-W (White)
Recommended area	Air purifying*1	23 m²	30 m²
Recommended area for high-density Plasmacluster ions*2		16 m²	23 m²
Operation modes		Max / Med / Sleep	Max / Med / Sleep / Auto
Voltage/frequency (V, Hz)		220-240, 50-60	220-240, 50-60
Power input (W)(Max / Med / Low)		50 / 30 / 13	23 / 14 / 3.5-7.5
Standby power (W)		0.6	0.9
Inverter operation		—	Yes
Airflow (Max / Med / Low) (m³/hour)		180 / 120 / 60	240 / 186 / 48-120
Noise level (Max / Med / Low) (dB)		44 / 36 / 23	45 / 39 / 15-30
Special programme mode		HAZE	Auto, Haze
Auto restart		Yes*3	Yes*3
Child lock		No	No
Timer		Yes (off)	Yes (off)
Filter type	Dust collection	HEPA*5	HEPA*5
	Deodorisation	No	Yes
	Pre-filter	Yes	Yes
Filter life	Dust collection	Up to 2 years*6	Up to 2 years*6
	Deodorising filter	No	Up to 2 years*6
	Filter replacement indicator	Yes	Yes
Sensor	Odour	No	Yes
	Dust	No	Yes
	Temperature and humidity	No	No
	Light	No	Yes
Clean sign indicator		No	Yes
Light control button		No	Yes (auto / dim / off)
Power cord length (m)		2.0	2.0
Dimensions (W x H x D) (mm)		431 x 411 x 211	390 x 583 x 270
Net weight (kg)		4.0	6.2
Replacement filter	HEPA filter	FZ-F30HFE	FZ-F50HFE
	Deodorising filter	—	FZ-F50DFE

Plasmacluster ion purification	Airborne microbes	Airborne mould	Airborne microbes	Airborne viruses	Dust mite remains allergens	Dust mite feces allergens	Ammonia odour
	Clinging odours	Cigarette odour	Body odour				
Filter purification	Capture and reduction of growth	Airborne microbes	Viruses	Tree pollen	Dust mite remains	Dust mite feces	
	Deodorising	Cigarette odour	Pet odour	Body odour	Mould odour	Ammonia odour	HAZE*7 gases
	Capture	Airborne mould	Plant pollen	Tree pollen	Pet dander	Pet hair	Dust

\*1 Recommended room size: Measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association. \*2 The number in this technology mark indicates an approximate number of ions supplied into air of 1 cm³, which is measured around the centre of a room applicable floor area (at 1.2 m height above the floor) when the product is placed close to a wall at the MED mode setting. \*3 The air purifier automatically resumes operation when power returns, even after a sudden power interruption, such as due to a circuit breaker. \*4 By pressing the Child Lock button for more than three seconds, the operation buttons are locked to help prevent inadvertent operation by children or pets. \*5 HEPA is defined by the JEM1467 standard of the Japan Electrical Manufacturers' Association Standard. The filter removes more than 99.97% of 0.3-micron dust particles. \*6 At a smoking rate of five cigarettes per day. \*7 Toluene, Ethylbenzene, Xylene etc. The deodorising performance for a single component odour substance in a 1m³ test container may be different than the deodorising performance in actual use.

● Not all harmful substances in cigarette smoke (e.g. carbon monoxide) can be removed.

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SPECIFICATIONS
AIR PURIFIERS WITH PLASMACLUSTER



Models		FP-J80L	FP-J60L	FP-J50L
Colour		-H (Gray)	-W (White)	-H (Gray)
Recommended area	Air purifying*1	62 m²	48 m²	40 m²
Recommended area for high-density Plasmacluster ions*2		35 m²	26 m²	23 m²
Operation modes		Max / Med / Low / Pollen / Sleep	Max / Med / Low / Pollen / Sleep	Auto / Max / Med / Sleep
Voltage/frequency (V, Hz)		220-240, 50-60	220-240, 50-60	220-240, 50-60
Power input (W)(Max / Med / Low)		48 / 28 / 4.0	38 / 18 / 3.6	39 / 14 / 4.5-7.5
Standby power (W)		1.3	1.2	1.2
Inverter operation		Yes	Yes	Yes
Airflow (Max / Med / Low) (m³/hour)		480 / 288 / 60	396 / 222 / 60	306 / 186 / 48-120
Noise level (Max / Med / Low) (dB)		47 / 45 / 15	43 / 40 / 15	51 / 39 / 15-30
Special programme mode		AIoT, Plasmacluster spot mode, Auto, Haze	Plasmacluster spot mode, Auto, Haze	AIoT, Auto, Haze
Auto restart		Yes*3	Yes*3	Yes*3
Child lock		Yes*4	Yes*4	No
Timer		Yes (on / off)	Yes (on / off)	Yes (off), Weekly Timer(IoT)
Filter type	Dust collection	HEPA*5	HEPA*5	HEPA*5
	Deodorisation	Yes	Yes	Yes
	Pre-filter	Yes	Yes	Yes
Filter life	Dust collection	Up to 2 years*6	Up to 2 years*6	Up to 2 years*6
	Deodorising filter	Up to 2 years*6	Up to 2 years*6	Up to 2 years*6
	Filter replacement indicator	Yes	Yes	Yes
Sensor	Odour	Yes	Yes	Yes
	Dust	Yes (Highly sensitive)	Yes (Highly sensitive)	Yes (Highly sensitive)
	Temperature and humidity	Yes	No	Yes
	Light	Yes	Yes	Yes
Clean sign indicator		Yes	Yes	Yes
Light control button		Yes (bright / dim / off)	Yes (bright / dim / off)	Yes (auto / dim / off)
Power cord length (m)		2.0	2.0	2.0
Dimensions (W x H x D) (mm)		416 x 728 x 291	416 x 728 x 291	390 x 583 x 270
Net weight (kg)		10.6	10.0	6.4
Replacement filter	HEPA filter	FZ-J80HFE	FZ-J80HFE	FZ-F50HFE
	Deodorising filter	FZ-J80DFE	FZ-J80DFE	FZ-F50DFE

Plasmacluster ion purification	Airborne microbes	Airborne mould	Airborne microbes	Airborne viruses	Dust mite remains allergens	Dust mite feces allergens	Ammonia odour
	Clinging odours	Cigarette odour	Body odour				
Filter purification	Capture and reduction of growth	Airborne microbes	Viruses	Tree pollen	Dust mite remains	Dust mite feces	
	Deodorising	Cigarette odour	Pet odour	Body odour	Mould odour	Ammonia odour	HAZE*7 gases
	Capture	Airborne mould	Plant pollen	Tree pollen	Pet dander	Pet hair	Dust

\*1 Recommended room size: Measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association. \*2 The number in this technology mark indicates an approximate number of ions supplied into air of 1 cm³, which is measured around the centre of a room applicable floor area (at 1.2 m height above the floor) when the product is placed close to a wall at the MED mode setting. \*3 The air purifier automatically resumes operation when power returns, even after a sudden power interruption, such as due to a circuit breaker. \*4 By pressing the Child Lock button for more than three seconds, the operation buttons are locked to help prevent inadvertent operation by children or pets. \*5 HEPA is defined by the JEM1467 standard of the Japan Electrical Manufacturers' Association Standard. The filter removes more than 99.97% of 0.3-micron dust particles. \*6 At a smoking rate of five cigarettes per day. \*7 Toluene, Ethylbenzene, Xylene etc. The deodorising performance for a single component odour substance in a 1m³ test container may be different than the deodorising performance in actual use.

● Not all harmful substances in cigarette smoke (e.g. carbon monoxide) can be removed.

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# AIR PURIFIERS WITH MOSQUITO CATCHER



## FP-GM50/40/30L



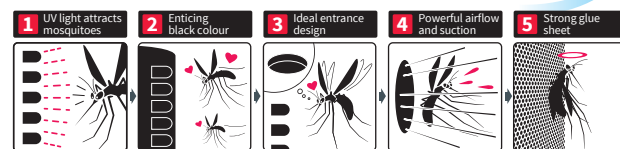
\*FP-JM30 is not equipped with Deodorising filter.



### MOSQUITO CATCHER

Capture and Protect Yourself from Mosquitoes. 100% Harmless. 5 Effective Steps\*<sup>2</sup> of Mosquito Catcher.

Reduce up to 91% of Culex, 73% of Aedes, and 72% of Housefly\*<sup>2</sup>



### SAFE AND EFFECTIVE MOSQUITO CAPTURE SYSTEM

These Air Purifiers safely capture mosquitoes. They use non-toxic mechanisms which are harmless to adults, children and furniture. Since mosquitoes are captured on a glue sheet, the floor is kept clean.



### GLUE SHEET\*

(FZ-STS2M, FZ-40STS)

#### 1 Insecticide-Free Glue Sheet

#### 2 Strong Catching Power

The strong glue sheet catches mosquitoes.

#### 3 Easy Disposal Without Dirtying Your Hands

\* Depending on room conditions.



2 Months' Usage\*

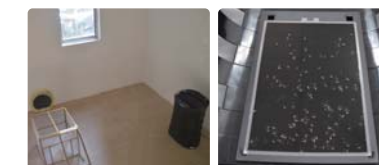


3 Months' Usage\*  
Exchangeable  
3-layer Glue Sheet  
(1 layer: for one month\*)



### LABORATORY TEST

24-hour test was conducted by releasing mosquitoes and flies. Number of captured mosquitoes and flies was counted.



## FP-GM50L



Recommended Room Size:  
**40 m<sup>2</sup>**

-B (Black)



HIGH-DENSITY 7000



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Mosquito Catcher
- Dust and Odour Sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart

## FP-JM40L



Recommended Room Size:  
**30 m<sup>2</sup>**

-B (Black)



HIGH-DENSITY 7000



- 20° Airflow Angle
- Auto Operation
- HAZE Mode
- Sleep Mode
- Mosquito Catcher
- Timer (OFF)
- Dust, Odour and Light Sensor
- HEPA Filter
- Deodorising Filter
- Dust and Odour Indication Monitor
- Auto Restart
- Filter Replacement Indicator

## FP-JM30L



Recommended Room Size:  
**23 m<sup>2</sup>**

-B (Black)



HIGH-DENSITY 7000



- 20° Airflow Angle
- HAZE Mode
- Sleep Mode
- Mosquito Catcher
- HEPA Filter
- Auto Restart
- Filter Replacement Indicator
- Timer (OFF)

\*1 Sharp developed the world's first air purifiers with mosquito catcher using UV light, a black panel catching mosquitoes, and a sticky sheet. The first model, the FP-FM40, was released in September 2015. \*2 The mechanism of the mosquito catcher was studied in collaboration with the Institute for Medical Research, Malaysia. \*3 Result of 24-hour laboratory test in collaboration with the Institute for Medical Research, Malaysia, with Culex quinquefasciatus, Aedes albopictus and aegypti, and Musca domestica. The efficacy of the mosquito catcher function was tested in a laboratory setting; actual conditions may vary. Continuous usage will improve capture efficacy.



SPECIFICATIONS
AIR PURIFIER WITH MOSQUITO CATCHER



Models		FP-GM50L	FP-JM40L	FP-JM30L
Colour		- B (black)	- B (black)	- B (black)
Recommended area*1 Air purifying		40 m²	30 m²	23 m²
Recommended area*2 for high-density Plasmacluster ions		23 m²	23 m²	16 m²
Operation modes		Max / Med / Sleep / Auto	Max / Med / Sleep / Auto	Max / Med / Sleep
Voltage / frequency (V, Hz)		220-240, 50-60	220-240, 50-60	220-240, 50-60
Power input (Max / Med / Sleep) (W)		51 / 17 / 4-6	23 / 14 / 4.5-7.5	53 / 32 / 19
Standby power (W)		1.0	0.9	0.7
Inverter operation		Yes	Yes	No
Airflow (Max / Med / Sleep) (m³ / hour)		306 / 186 / 48-90	240 / 186 / 48-120	180 / 120 / 78
Noise level (Max / Med / Sleep) (dB)		51 / 41 / 20-29	45 / 39 / 15-30	44 / 36 / 27
Special programme mode		Haze	Haze	Haze
Auto restart		Yes*4	Yes*4	Yes*4
Child lock		No	No	No
Timer		No	Yes (off)	Yes (off)
Filter type	Dust collection	HEPA*6	HEPA*6	HEPA*6
	Deodorisation	Yes	Yes	No
	Pre-filter	Yes	Yes	Yes
Filter life	Dust collection	Up to 2 years*7	Up to 2 years*7	Up to 2 years*7
	Deodorising filter	Up to 2 years*7	Up to 2 years*7	—
	Filter replacement indicator	No	Yes	Yes
Sensor	Odour	Yes	Yes	No
	Dust	Yes	Yes	No
	Light	No	Yes	No
Clean sign indicator		Yes	Yes	No
Mosquito trap function		Yes	Yes	Yes
Light control button		Yes (bright / off)	Yes (auto / dim / off)	Yes (bright / off)
Power cord length (m) approx.		2.0	2.0	2.0
		Type C (2-pin)	Type C (2-pin)	Type C (2-pin)
Dimensions (W x H x D) (mm)		394 x 540 x 281	397 x 591 x 289	438 x 444 x 253
Net weight (kg)		6.1	6.9	4.7
Replacement filter	HEPA filter	FZ-F50HFE	FZ-F50HFE	FZ-F30HFE
	Active Carbon Deodorising Filter	FZ-F50DFE	FZ-F50DFE	—
Replacement glue sheet		FZ-ST52M	FZ-ST52M	FZ-ST52M

Plasmacluster ion purification	Airborne microbes	Airborne mould	Airborne microbes	Airborne viruses	Dust mite remains allergens	Dust mite feces allergens	Ammonia odour
	Clinging odours	Cigarette odour	Body odour				
Filter purification	Capture and reduction of growth	Airborne microbes	Viruses	Tree pollen	Dust mite remains	Dust mite feces	
	Deodorising	Pet odour	Body odour	Mould odour	Ammonia odour		
	Capture	Airborne mould	Plant pollen	Tree pollen	Pet dander	Pet hair	Dust

\*1 Recommended area: Calculated based on the JEM1467 standard of the Japan Electrical Manufacturers' Association. \*2 The area in which approximately 7,000 ions can be measured per cm³ in the centre of the room (at a height of approximately 1.2 meters from the floor) when the product is placed next to a wall and run at the maximum setting. \*3 Ion density about 1.5 times higher for 60 minutes in the applicable room size. \*4 The air purifier automatically resumes operation when power returns, even after a sudden power interruption, such as due to a circuit breaker. \*5 By pressing the Child Lock button for more than three seconds, the operation buttons are locked to help prevent inadvertent operation by children or pets. \*6 HEPA is defined by the JEM1467 standard of the Japan Electrical Manufacturers' Association Standard. The filter removes more than 99.97% of 0.3-micron dust particles. \*7 At a smoking rate of five cigarettes per day.
\* The number in this technology mark indicates the approximate number of ions supplied into 1 cm³ of air. This is measured around the centre of a room (at a height of 1.2 m above the floor) with the applicable floor area at the maximum airflow, when a Plasmacluster ion generator using a high-density Plasmacluster ion-generating device is placed close to a wall.
● The filter itself may produce an odour and need to be replaced after several months if the air purifier is used to reduce strong odours, such as cigarette smoke or grilled meat. ● Use the air purifier in combination with room ventilation if it is used for strong odours. ● Not all harmful substances in cigarette smoke (e.g. carbon monoxide) can be removed. ● Not all commonly occurring odours (e.g. pet odours) can be removed.
Design and specifications are current as of September 2019, but are subject to change without prior notice. Actual colours may differ slightly from the colours shown in this brochure.

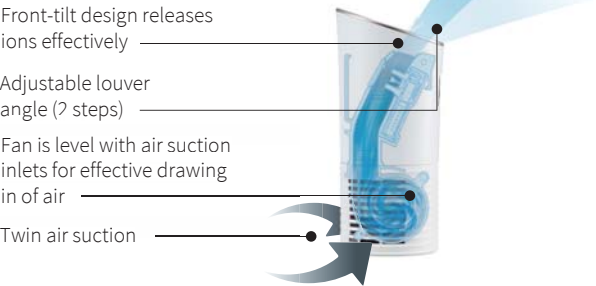


PLASMACLUSTER ION GENERATOR



DOUBLE-SPEED DEODORISING WITH TURBO MODE

(In comparison with standard airflow)
For deodorisation in a short period of time.



QUIET OPERATION

- 23 dB with standard airflow
  - 36 dB with turbo mode
- So quiet that it is barely audible even in a hybrid car

TINY DUST AND POLLEN COLLECTION

PM10 filter collects tiny dust and pollen
With a PM10 dust filter on each side, the unit captures approximately 80% of pollen and fine dust particles (10 microns or larger in size).

Model	IG-GC2L-B
Power	Car adapter
Rated input	DC12V
Rated output	DC5V (Max. 2 A for 2 ports)
Operation mode	3 (Turbo/Med/Low)
Power consumption (W)	1.8 / 0.7 / 0.5
Ion density (approx.)	75,000/25,000/7,000 ions/cm³
Operating noise level (dB)	36 / 23 / 19
Outer dimensions	Upper: 74 mm / Lower: 65 mm / Height: 162 mm
Weight (g)	Approx. 265g (excluding accessories)
Capacity applicable for high-density Plasmacluster 25000*	Approx. 3. 6m³

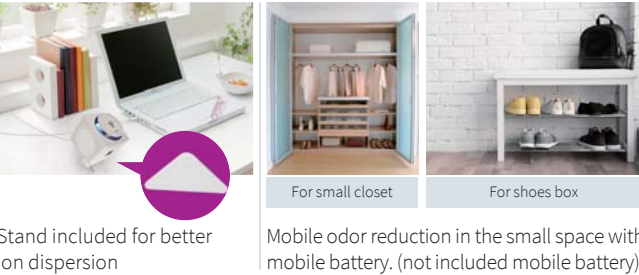
\* It is the index of capacity that approximately 25,000 ions blown out to the air can be measured at the point near the centre of the space (0.5m height from floor) when the air volume is "MED", by placing the unit in an appropriate place such as a cup-holder beside the driver's seat.

FULL-POWER OPERATION

Full-power operation with approx. 2 times the amount of ions emitted, providing even greater effectiveness.

CONVENIENT FEATURES FOR EVERYDAY COMFORT

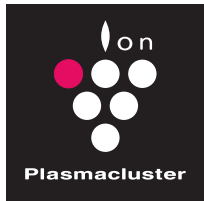
- Simple operation to turn the power on by just popping up the louvers.
- Wall mounting possible (securing screws not included)



Model	IG-EX20B-W
Color	White
PCI applicable area (m²)	1.65*1
Power	USB cable*2
Rated input	DC5V / 1A
Operation mode	Full Power / Med / Low
Power consumption (W)	3.0 / 2.4 / 2.1
Ion Density (approx.)	50,000 / 25,000 / 7,000 ions/cm³
Air volume (m³/min) Approx.	0.08 / 0.06 / 0.05
Noise level (dB)	31 / 25 / 22
Size (W x D x H) (mm)	90 x 90 x 95 (Excluding USB cable and louver)
Net Weight (g)	315 (Excluding USB cable)
Length of USB cable (m)	Approx. 1.8
Replacement unit	IZC75CE*3
Accessories	USB cable, Unit cleaning brush, Stand

\*1 The target floor area in which approximately 25000 ions per cubic centimeter can be measured in the center of the room when the product is placed close to a wall, is operating on MED mode, and is at a height of approximately 1.2 meters from the floor.
\*2 The product does not include a USB adapter.
\*3 The Plasmacluster ion generation unit should be replaced regularly to enable stable emission of high-density Plasmacluster ions. Replacement is required after approx. 17,500 hours (two years) when operated continuously 24 hours a day. The ion generator will stop operating after about 19,000 hours (two years and two month) if it is not replaced.





# RECOMMENDED ROOM SIZE AREA

## AIR PURIFIERS WITH HUMIDIFYING

KC-G60L    KC-G50L    KC-G40L    KC-F30L



## AIR PURIFIERS WITH PLASMACLUSTER

FP-J80L    FP-J60L    FP-J50L



## AIR PURIFIERS WITH MOSQUITO CATCHER

FP-GM50L    FP-JM40L    FP-JM30L



FP-J40L    FP-J30L



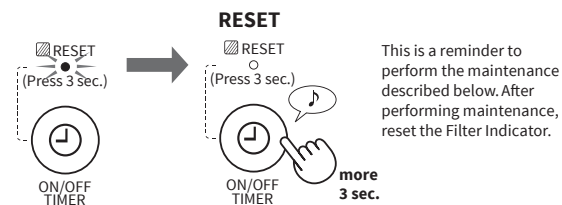




# AIR PURIFIER TIPS CARE AND MAINTENANCE

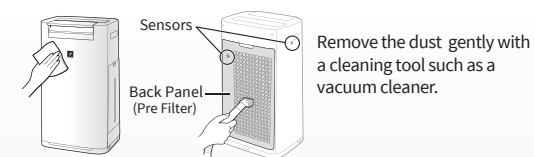
## FILTER INDICATOR

The filter reset Indicator light will turn on after approximately 720 hours operating. (30 days x 24 hours = 720 hours)



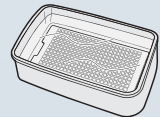
## UNIT / BACK PANEL (PRE FILTER)

Wipe with a dry, soft cloth.



### How to clean hard to remove dirt

#### Back Panel

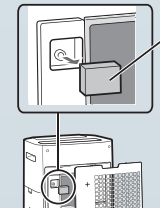


1. Add a small amount of kitchen detergent to water and soak for about 10 minutes.
2. Rinse off the kitchen detergent with clean water.
3. Completely dry the filter in a wellventilated area.

#### CAUTION

- Do not apply excessive pressure when scrubbing the back panel.

#### Sensor Filter

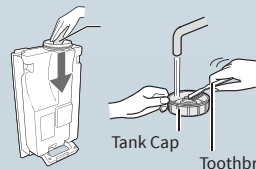


1. Remove the Back Panel.
2. Remove the sensor filter.
3. If the sensor filter is very dirty, wash it with water and dry it thoroughly.

## WATER TANK

Rinse the inside with water.

### How to clean hard to remove dirt



## HEPA FILTER/ DEODORIZING FILTER

Remove the dust on the HEPA Filter and Deodorizing Filter.

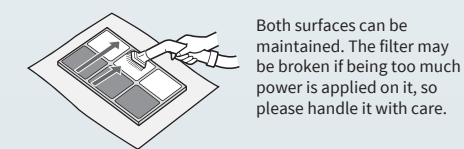
#### CAUTION

- Do not wash the filters. Do not expose to sunlight.

#### HEPA FILTER

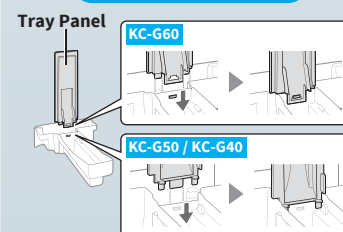


#### DEODORIZING FILTER

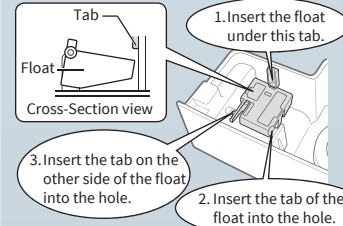


Some odors absorbed by the filters will break down over time, causing additional odors. Depending on usage conditions, and especially if the unit is used in environments significantly more severe than a normal household, these odors may become noticeable sooner than expected. Replace the filter in those cases or if dust is unable to be removed after maintenance.

### How to install the Float and the Tray Panel

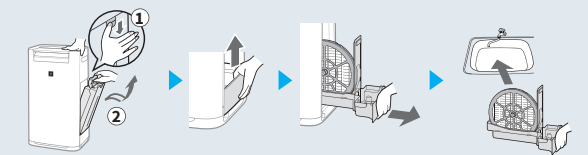


#### Float



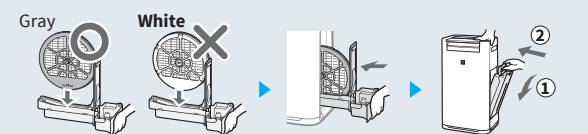
## HUMIDIFYING FILTER AND HUMIDIFYING TRAY

### HOW TO REMOVE THE HUMIDIFYING FILTER AND TRAY.



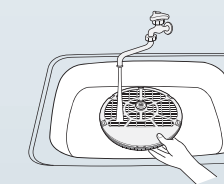
### HOW TO ATTACH THE HUMIDIFYING FILTER AND TRAY.

After maintenance, correctly reattach the parts.



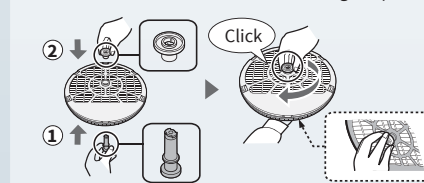
### Humidifying Filter

Rinse with plenty of water.



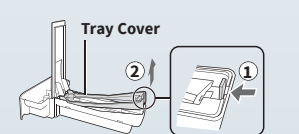
#### NOTE

If you remove the Humidifying Filter shaft, be sure to reattach it to its original position.

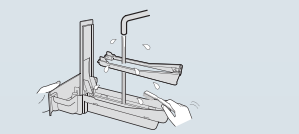


### Humidifying Tray

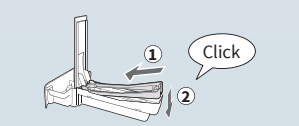
1 Remove the Humidifying Tray Cover.



2 Rinse with plenty of water.



3 Reattach the Humidifying Tray Cover.



- Do not remove the Float and the Tray Panel. If they come off, refer to How to install the Float and the Tray Panel.

### How to clean and remove stubborn dirt

Kitchen detergent (only Humidifying tray)	Citric acid (available at some drugstores)	100% bottled lemon juice with no pulp
1. Fill the tray half-way with water. 2. Add a small amount of kitchen detergent.	2 1/2 cups of water 3 teaspoons	3 cups of water 1/4 cup
Soak for 30 minutes.	Soak for 30 minutes. (When using lemon juice as your descaling solution, allow for more soak time.)	
Rinse off the kitchen detergent or the descaling solution with clean water.		