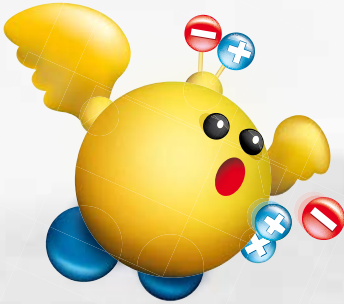


PLASMACLUSTER AIR-PURIFIER ELIMINATES VIRUSES,
BACTERIA, HAZE AND ALLERGENS AT EVERY CORNER



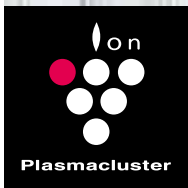
PROTECTING YOUR LOVED ONES



YOU CAN'T RUN
YOU CAN'T HIDE



Sharp's New Air Purifiers with High-Density Plasmacluster Ions Clean Entire Room Air Quickly and Effectively by Removing Airborne Allergens and Substances

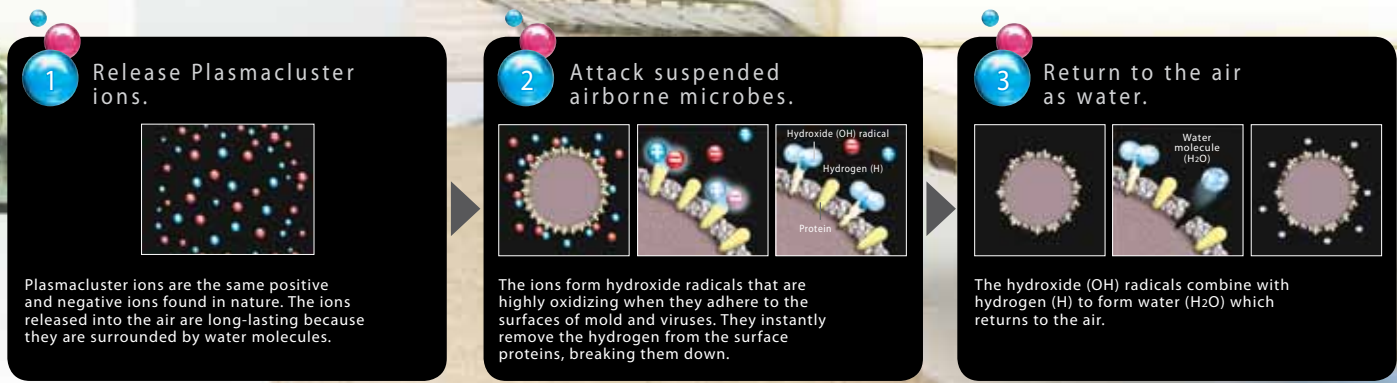


Plasmacluster technology

The plasma device generates and emits the same positive and negative ions that occur in nature. Plasmacluster technology is Sharp's original air purifying technology that removes suspended airborne mold and viruses.

Winner of the Invention Prize at the 2008 National Invention Awards Ceremony held by the Japan Institute of Invention and Innovation (JIII)
Patented by Sharp
(patent No. 3680121)





HIGH-DENSITY ION GENERATING UNIT

Plasmacluster ions in the air are the same as they are in nature, so they can be generated in high density in a living environment.

The Same Type of Ions As Those in the Natural Environment

Plasmacluster ions are positive and negative ions that adhere to the surfaces of suspended airborne microbes and form highly oxidizing hydroxide radicals that physically break down and remove the proteins on the surfaces of suspended microbes. Since they are the same as naturally occurring ions while airborne, they can exist in higher densities in homes.

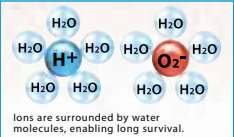
GLP*-compliant test facilities have gathered highly reliable safety data on Sharp's Plasmacluster technology.

- Skin irritation/corrosion test
- Eye irritation/corrosion test
- Inhalation toxicity test (lung tissue genetic impact assessment)

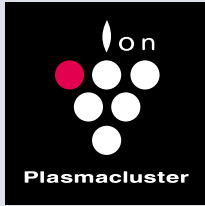
Tested by: Mitsubishi Chemical Safety Institute

Water Molecules Surround Ions Ensuring Long Ion Life

The Plasmacluster ion generating device that produces ions is mounted as a replaceable unit. It uses high voltage and a larger number of electrical discharges to generate higher densities of positive and negative ions. Since the positive and negative ions generated are surrounded by water molecules, they can survive for extended periods.



* 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.



High-Density Plasmacluster Technology: A Refined Antibacterial Air-Sanitizing Technology That Air-Purifying Action

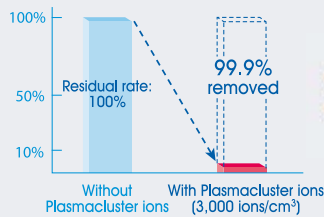
Plasmacluster technology is an original Sharp sanitizing technology that purifies the air by emitting highly safe positive and negative ions of the same type found in nature. It sanitizes and purifies suspended airborne mold, viruses and allergens. The benefits have been proven by official test institutions in Japan and around the world.

PROVEN EFFECTIVENESS OF PLASMACLUSTER IONS

Removal of Dust Mite Allergens

Plasmacluster ions cut through and remove proteins in suspended allergens generated by dust mite feces and dead mites, thus reducing their effects.

Removal effectiveness for dust mite allergens in suspended house dust

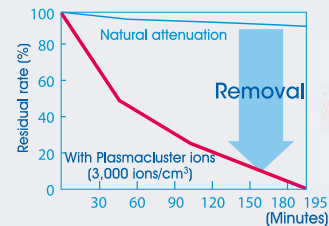


- Tested by Hiroshima University Graduate School of Advanced Sciences of Matter
- Test method: The effect of dust mite allergens in an untreated room (with a floor area of about 13 m²) was measured in an actual home by the ELISA (Enzyme-Linked Immunosorbent Assay) method. Sharp converted the results and calculated the average value. (Plasmacluster ion density: 3000 ions/cm³)

Removal of Mold

Plasmacluster ions penetrate and remove the cell membrane proteins on suspended mold surfaces, inhibiting their effects.

Reduction of airborne mold

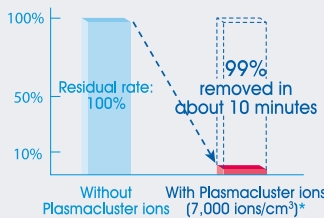


- Tested by Ishikawa Health Services Association
- Test method: Plasmacluster ions were emitted into an experimental chamber with a floor area of about 13 m², and the suspended mold was measured with an air sampler. Sharp has collated the results using approximate figures. (Plasmacluster ion density: 3,000/cm³)

Removal of Viruses

Plasmacluster ions break down and remove projecting spike-shaped proteins of suspended viruses, and reduces their effects.

Reduction of airborne viruses

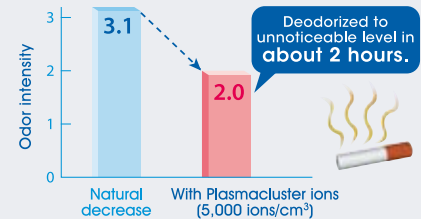


- Tested by Retroscreen Virology Ltd., U.K.
- Test method: Viruses were suspended in a 1 m³ box and the percentage of airborne viruses removed was measured. (Plasmacluster ion density: 7,000 ions/cm³)
- * The results do not apply to the FU series and KC-C series. Average ion density measured in the center of a room at a height of 1.2 m from the floor; recommended room size for the targeted high density of 7000 Plasmacluster ions with the KC860E/850E/840E in air-purifying and humidifying mode at maximum airflow.

Removal of Odor

Plasmacluster ions remove hydrogen from adhering odor molecules, breaking down and removing odor components.

Removing cigarette smoke odor



- Tested by Japan Spinners Inspecting Foundation
- Test method: The deodorizing effectiveness on a cloth swatch impregnated with cigarette smoke odor components was evaluated by the six-level odor intensity indication method. Sharp has converted and tabulated the results. (Plasmacluster ion density: 5,000 ions/cm³)

While these air purifiers can remove suspended viruses and other contaminants, they cannot create a completely sterile environment. Sharp does not guarantee the ability of these air purifiers to prevent microbial infection.

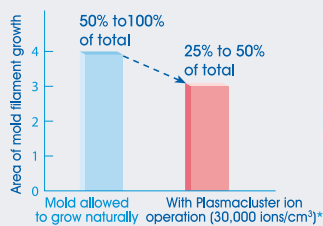
Groundbreaking

EFFECTIVENESS IS BOOSTED WITH INCREASING DENSITY

Reducing Growth of Adhering Mold



High-density Plasmacluster ions remove suspended mold and reduce the growth of adhered mold.



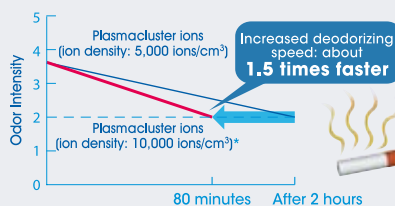
- Tested by Japan Food Research Laboratories
- Test method: Sharp generated ions in a space of 2.6 m³, grew mold on a PVC plate for five days, and had a test facility estimate the mold growth. The mold growth was analysed as directed by JISZ2911. Sharp plotted the results. (Plasmacluster ion density: 30,000 ions/cm³*)
- Test results No.208071183-001 of July 30, 2008
- * The results do not apply to the FU series and KC-C series. Average ion density measured at the walls of a room half the recommended room size with the KC860E/850E/840E using air purifying and humidifying with the maximum airflow.

Increase in Adhering Odor Removal Speed (1.5 Times Faster)



High-density Plasmacluster ions increase deodorizing speed. Depending on the way in which the Air-purifier is used, a concentrated airflow of high-density Plasmacluster ions can also reduce sweat odors clinging to clothes.

Reducing cigarette smoke odor from cloth.



- Tested by Japan Spinners Inspecting Foundation
- Test method: The effectiveness of deodorizing a cloth swatch impregnated with cigarette smoke odor components was evaluated using the six-level odor intensity indication method. Sharp converted and calculated the results. (Plasmacluster ion density: 10,000 ions/cm³*)
- * The results do not apply to the FU series and KC-C series. Average ion density measured at the walls of a room with the recommended room size for the targeted high density of 7000 Plasmacluster ions with the KC860E/850E/840E in air-purifying and humidifying mode at maximum airflow.

The actual number of ions, removing and purifying effectiveness will vary according to the room conditions and the operation method.

Proven at 13 institutions in Japan and around the world.

The institutions below have gathered validation data for Plasmacluster ion generating devices manufactured between October 2000 and December 2008, and records of product use.

Test substance	Tested by:
Airborne viruses	Kitasato Research Center of Environmental Sciences (Japan)
	Seoul University (Korea)
	Shanghai Municipal Center for Disease Control and Prevention
	Kitasato Institute Medical Center Hospital, Kitasato University (Japan)
	Retroscreen Virology, Ltd. (UK)
Airborne allergens	Hiroshima University Graduate School of Advanced Sciences of Matter (Japan)
	Asthma Society of Canada
Airborne mold	Ishikawa Health Service Association (Japan)
	Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany)
Airborne microbes	Ishikawa Health Service Association (Japan)
	Shanghai Municipal Center for Disease Control and Prevention
	Kitasato Research Center of Environmental Sciences (Japan)
	Kitasato Institute Medical Center Hospital, Kitasato University (Japan)
	Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany)
	Harvard School of Public Health (USA)
Adhering odor	Japan Spinners Inspecting Foundation
Adhering mold	The University Lübeck (Germany)
	Japan Food Research Laboratories

* Validation test results for other test substances carried out by the same test institution at the same time have not been shown.

Third-party Verifications for Plasmacluster Ion Technology

JAPAN



Tagaki Award from the Society of Non-Traditional Technology.

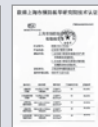


Kitasato Research Center of Environmental Sciences



Ishikawa Health Service Association

CHINA



Shanghai Municipal Center for Disease Control and Prevention

GERMANY



University Lübeck

USA



Harvard School of Public Health

The Sharp Plasmacluster Range - Over 20 million* Units Sold Worldwide.

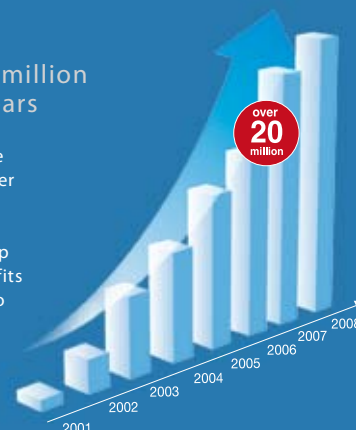
In collaboration with a number of companies, Sharp has expanded the Plasmacluster ion technology to the following industries.



* Total number of Sharp Plasmacluster products and Plasmacluster ion-generating devices shipped within Japan and overseas between October 2000 and December 2008.

Used in over 20 million products in 8 years

In the seven years since its release, Plasmacluster ion-equipped products have exceeded the 20-million-unit mark. Sharp aims to bring the benefits of Plasmacluster Ions to every air space.



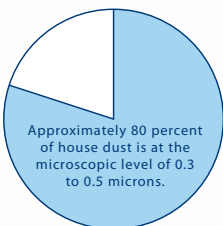
Sharp's Unique, Efficient and Powerful Airflow and Circulation Devices Enables Quick Dust Removal.

Quick dust removal time of only **8 min.** for a **13m²** room.

Powerful air suction **8.0 m³/min.**

SHARP'S NEW AIRFLOW SYSTEM QUICKLY AND EFFECTIVELY REMOVES HOUSE DUST

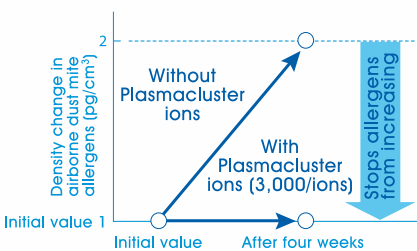
Plasmacluster ions break down 99.9% of dust mite allergens in airborne house dust and prevent the increase in these allergens. Almost all dust in the air circulate around the room without ever descending to the floor. The Plasmacluster shower released into the room removes the effect of this dust.



- Tested by Sharp
- Test method: Airborne dust in a typical house was measured with a particle tester



Increase of dust mite allergens is prevented even in an untreated room.

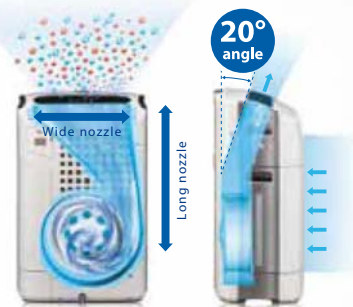


- Tested by Hiroshima University Graduate School of Advanced Sciences of Matter
- Test method: The effect of dust mite allergens in an untreated room (with a floor area of about 13 m²) was measured in an actual home by the ELISA (Enzyme-Linked ImmunoSorbent Assay) method. Sharp converted the results and calculated the average value. (Plasmacluster ion density: 3,000/cm³)



New Nozzle at a 20° angle provides powerful airflow

A newly developed aerodynamic long and wide nozzle provides a faster and more stable airflow. In addition, the 20° angle of the nozzle circulates air faster throughout the room, enabling quick removal of dust and particles even from the far corners of the room.



Efficient Air Intake with Grid Rear Air Suction Panel

The volume of the powerful airflow is more than 1.2 times* the volume of previous models. Plus, the grid rear air suction panel takes in this strong airflow without leaving any clogging dust or dirt particles. This unique construction efficiently removes dust even from the four corners of the room.

Rear Panel Intake Grid



* Approximate value for the KC860E when compared to the previous model, the KC6500E.

High-Performance Filters

Provide Powerful Dust and Odor Removal for Long Periods of Time

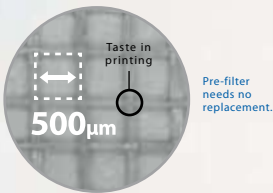
High-performance HEPA filter*2 collects approx.

99.97%*
of dust.

High-Performance Filters Remove Micron-size Dust Particles

1 Micron Mesh Pre-Filter Stops Microscopic Dust Particles

The pre-filter maintains the high performance of the HEPA filter by preventing microscopic dust from entering the core parts of the air purifier. Dust can be easily wiped or washed away from the filter without detaching the panel. There is no need to replace the pre-filter.



Micron Mesh Filter

2 Washable Deodorizing Filter Removes Odors

The odor removal ability of the deodorizing filter can be easily restored* by periodically washing away any dust or dirt. The filter can be repeatedly washed, so there is no need to replace it.

* Depending on the usage frequency and washing method, it may not be possible to regain deodorizing performance.

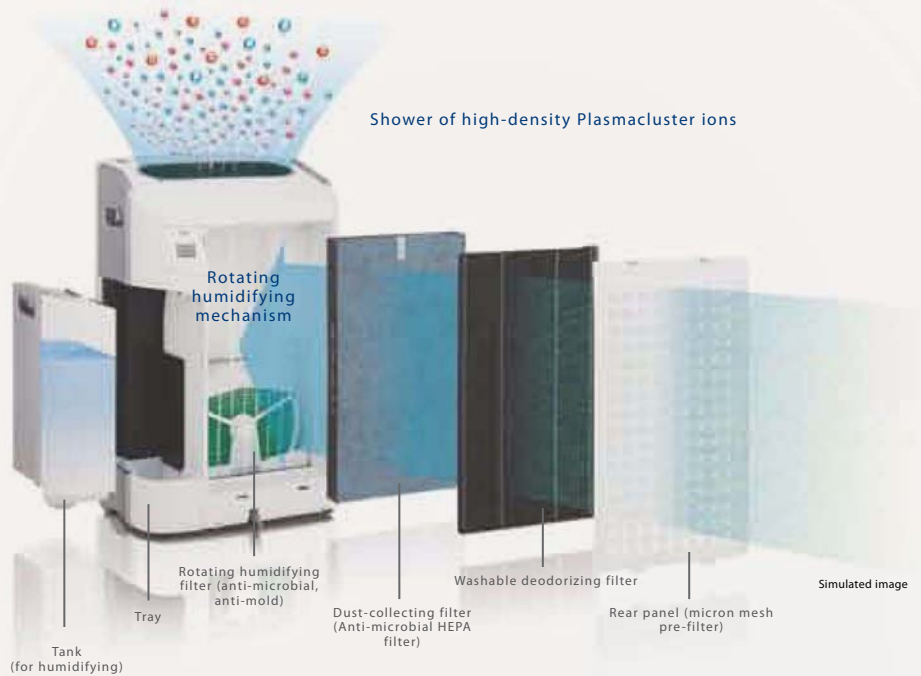
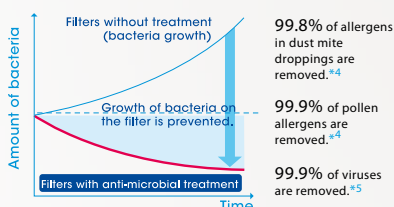


3 Anti-Microbial*1 HEPA Filter*2 Catches Even 0.3-Micron House Dust Particles

Anti-microbial*1 HEPA filter*2 catches 99.97% of 0.3-micron house dust particles, providing almost perfect dust removal. This high performance can be maintained for a long period because no filter replacement is required for 10 years*3.

- *1 Tested by Japan Synthetic Textile Inspection Institute Foundation.
- *2 The filter removes more than 99.97% of 0.3-micron dust particles.
- *3 When smoking five cigarettes a day.
- *4 Tested by Hiroshima University Graduate School of Advanced Sciences of Matter.
- *5 Tested by Chinese Center for Disease Control and Prevention (CCDC), Laboratory for Infectious Disease Prevention and Control.

Removing allergens and viruses, plus preventing bacteria growth

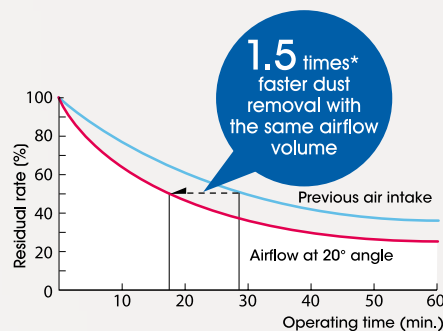


* The removal performance applies to the HEPA filter and not to removal performance for the whole room.

Powerful Airflow at the 20° angle with funnel-shaped nozzle remarkably improves dust suction speed.

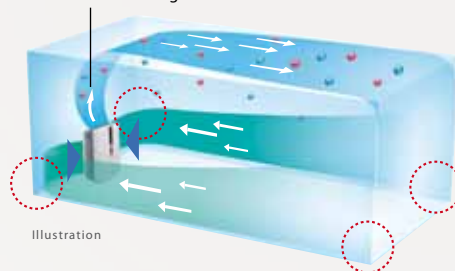
KC860E
Almost **DOUBLE***
the dust removal speed

- *1 Approximate value for the KC860E when compared to the previous model, the KC6500E.
- 150%* the dust removal efficiency
- 130%* the airflow volume (5.1 m³/min to 6.6 m³/min)



- Tested by Sharp
- Test method: The residual rate of airborne house dust was measured in a room of approximately 13 m³ with uniform airflow.
- * Approximate value for the KC860E when compared to the previous model, the KC6500E.

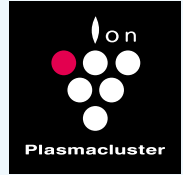
Airflow at 20° angle



A powerful airflow from Sharp's unique aerodynamic structure can quickly remove dust and other particles even from far corners of the room.

Powerful Humidifying

Enhances the Performance of the Plasmacluster Ions



POWERFUL HUMIDIFYING

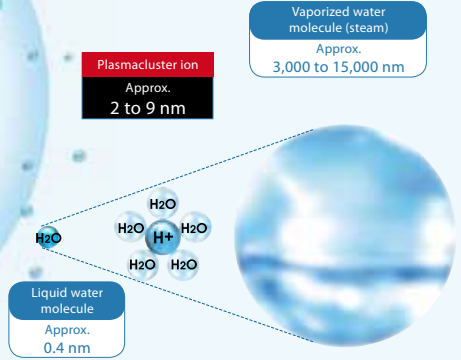
HUMIDITY OF 60% TO KEEP YOUR SKIN AND THROAT FROM BECOMING DRY

The rotating filter disc automatically starts and stops according to the level of humidity in the entire room to maintain the level at 60%* and create an ideally comfortable environment. Keeping humidity at 60%* also prevents nose and throat dryness and limits virus activity.

* The effectiveness of humidifying depends on the outside conditions as well as the size and temperature of the room.

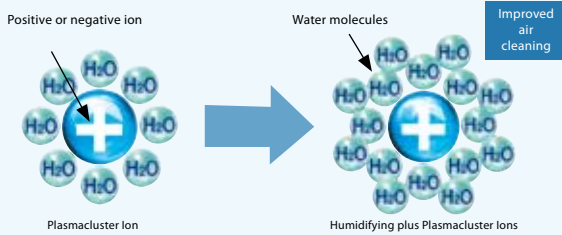


Humidifying through vaporization moisturizes your skin by penetration with tiny invisible water molecules. (1 nm = 1/1,000,000 mm)



Humidifying Improves the Effectiveness and Endurance of Plasmacluster Ions

Water molecules accumulate around the positive and negative Plasmacluster ions, increasing their size and doubling their endurance as well as air-purifying speed*.

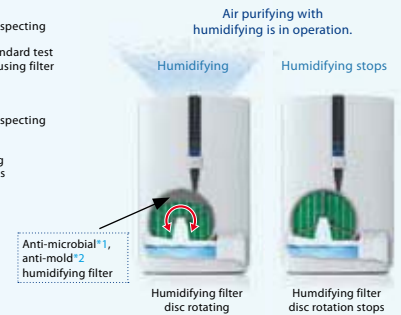


* Tested by Japan Food Research laboratories
 Test method: Plasmacluster ions were emitted into an experimental chamber with a floor area of about 8m², suspended mold was measured with an air sampler, and the approximate values were compared for two conditions: with and without humidifying.

Rotating Humidifying Filter with Humidity Detector

Temperature and humidity detectors constantly sense the room moisture conditions to automatically stop and start humidifying and maintain an optimal degree of humidity. The humidifying filter is anti-microbial and anti-mold.

1* Tested by Japan Spinners Inspecting Foundation
 Test method: JIS Z 2801 standard test
 Anti-microbial method: Infusing filter with anti-bacterial agents
 Test result: 99% removed
 2* Tested by Japan Spinners Inspecting Foundation
 Test method: Halo method
 Anti-mold method: Infusing filter with anti-mold agents
 Test result: 99%



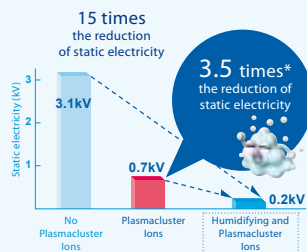
Humidifying Prevents Dust and Pollen from Circulating and Clinging to Clothing or Other Fibers

Operation with humidifying and Plasmacluster ions is 3.5 times* more effective at reducing static electricity, preventing pollen from circulating in the room and clinging to curtains or clothing.

Clinging pollen is not removed by trying to dust it off. A shower of Plasmacluster ions reduces static electricity, and removes pollen from the cloth.



Tested by Sharp
 Test method: Simulated pollen was made to cling to a cloth charged with static electricity, and then Plasmacluster ions were released. The cloth was dusted off several times, and then examined with an electron microscope.



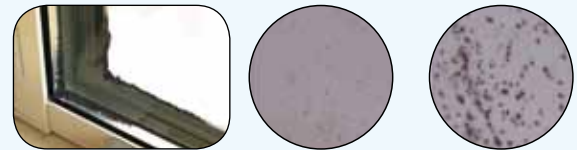
Change in static electricity due to humidifying and Plasmacluster ions

Tested by Sharp
 Test method: A plate electrically charged with approximately 3 kV is placed in a 1m³ sealed container and the static electricity is measured when humidity and Plasmacluster ions are released. (Plasmacluster ion density: 30,000/cm³)
 Approximate value when comparing two conditions: operation with and without humidifying.

Prevents Mold Growth in the Wet Season

High-density Plasmacluster ions remove suspended mold and reduce the growth of mold on surfaces.

High-density Plasmacluster ions produce a condition in which it is difficult for black mold to grow on surfaces such as rubber window frames.



Tested by Japan Food Research Laboratories
 Test result: No. 20807071183-001, July 30, 2008
 Test method: Sharp generated ions in a space of 2.6 m³, grew mold on a PVC plate for five days and entrusted them to a test institution. The mold growth was compared as directed by JISZ2911. Sharp plotted the results (Plasmacluster ion density: 30,000 ions/cm³)

Plasmacluster ions (30,000/cm³)* Area of mold filament growth: 25% to 50% of total
 Mold allowed to grow naturally Area of mold filament growth: 50% to 100% of total

The effectiveness of the Plasmacluster ions depends on the size and structure of the room and the air purifier operation mode.

Average ion density measured with the KC860E using air purifying and humidifying with the maximum airflow volume in a room half the size of the recommended room size.

The Effectiveness of Dust Removal is Indicated in Eleven Levels



Clean ← → Very Dirty (KC860E)

FOUR SENSORS CHECK AND CONTROL ROOM AIR CONDITIONS

Four sensors for dust, odor, temperature* and humidity constantly monitor the room air.

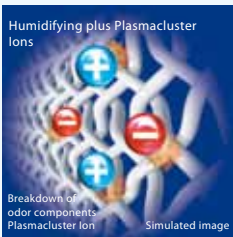
- 1 House Dust Monitor**
 The dust sensor detects dust in the room and indicates the intensity in eleven levels with color changes (KC860E).
- 2 Odor Monitor**
 The odor sensor detects odors and indicates the intensity in three levels with colors.
- 3 Humidity Monitor**
 Room humidity is monitored in units of 1%.
 Note: It is not possible to set a desired humidity (KC860E/850E).

* The temperature sensor is installed to check the room temperature and adjust the humidity to that temperature, but there is no monitor for this sensor.

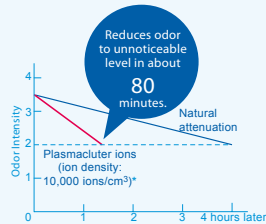


Powerful Removal of Stubborn Lingering Odors

Humidifying and Plasmacluster ions quickly remove pet and cigarette odors seeped into curtains, sofas and other fibers.



Reducing cigarette smoke odor from cloth



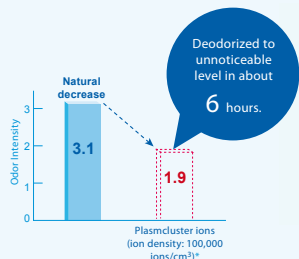
Change in static electricity due to humidifying and Plasmacluster ions

- Tested by Japan Spinners Inspecting Foundation
- Test method: The deodorizing effectiveness on a cloth swatch impregnated with cigarette smoke odor components was evaluated by the six-level odor intensity indication method. Sharp has converted and collated the results. (Plasmacluster ion density: 10,000/cm³)
- * Ion density measured at the walls of a room with the recommended room size for the targeted high-density Plasmacluster ions in air-purifying and humidifying mode at maximum airflow.



Spot Deodorizing Function

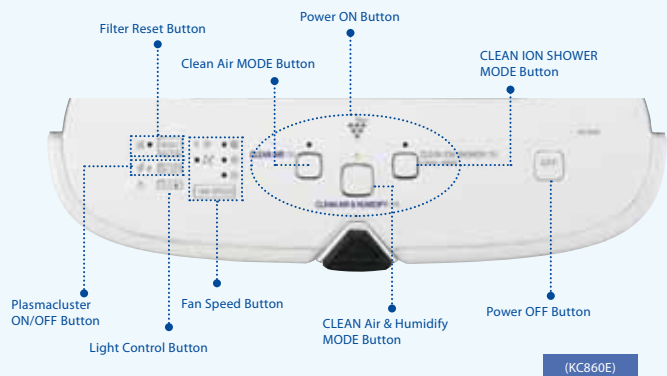
The Spot Deodorizing function gently deodorizes suits or coats affected with unpleasant odors overnight by emitting a focused stream of high-density Plasmacluster ion air onto them.



- Tested by Japan Spinners Inspecting Foundation
- Test method: The deodorizing effectiveness on a cloth swatch impregnated with sweat odor components was evaluated by the six-level odor intensity indication method. (Plasmacluster ion density: 100,000 ions/cm³)
- * The ion density created when the KC860E was operated at the HIGH airstream setting, measured next to hanging clothing with the airstream directed onto it.
- Note: The effectiveness of clothing odor removal varies according to the type and intensity of the odor, and the clothing material. Odor is not removed from clothing areas away from the airstream. The FU series and KC-C series do not have this function.

Simple-to-Use Control Panel

The control panel is easy to use with separate buttons to directly start operation of solely air purifying or air purifying with humidifying, and Plasmacluster shower. An indicator notifies when the filter needs to be cleaned.



Reduced Household Expenses and Quiet Operation

Economical Even with Year-Round Use
 Only 1/5^{*1} the annual electricity cost of using an air purifier and humidifier separately.

*1 Approximate value when compared to using the air purifier and humidifier together

Quiet Operation for Nighttime

Air purifying with humidifying provides quiet operation of only 24 dB, which is almost the same sound level as a quiet library. Air purifying alone without humidifying is even more quiet.

KC860E		KC850E		KC840E	
in low operation	in high operation	in low operation	in high operation	in low operation	in high operation
27 dB	51 dB	24 dB	48 dB	24 dB	42 dB



KC-series Air Purifiers with Humidifying Function

HIGH-DENSITY PLASMACLUSTER IONS



Panel enlargement:
Marble-like finish



KC860E
48 m²*1



Panel enlargement:
Crystal-cut, gloss finish



KC850E
38 m²*1



Panel enlargement:
Diamond-cut, shiny finish



KC840E
26 m²*1



KC930E
21 m²*1

SPECIFICATIONS

Model		KC860E	KC850E	KC840E	KC930E
Air Purifying System		High-density PCI generator and fan			
Plasmacluster Ion Modes		On/Off	On/Off	On/Off	On/Off
Plasmacluster Indicator Light		Yes	Yes	Yes	Yes
Humidifying	Humidifying system	Natural vaporization	Natural vaporization	Natural vaporization	Natural vaporization
	Tank capacity	4.3L	4.0L	3.0L	2.1L
	Humidifying capacity*2	730 mL/hour	600 mL/hour	450 mL/hour	350 mL/hour
Remote Control		No	No	No	No
Recommended Room Size*1	Without humidifying	48 m ²	38 m ²	26 m ²	21 m ²
	With humidifying*2	33 m ²	28 m ²	21 m ²	16 m ²
Recommended Room Size*3 for high-density Plasmacluster ions		33 m ²	28 m ²	21 m ²	17 m ²
Fan Speed		3 (max. / med. / low) auto and pollen			
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	56 / 19 / 5.5	41 / 11.6 / 3.8	26 / 9.5 / 3.7	-
	With humidifying	56 / 21 / 8.8	40 / 13.5 / 6.8	21 / 11.5 / 6.1	21 / 11.5 / 6.1
Standby Power (W)		0.7	0.7	0.7	0.9
Running Current (A)		0.50	0.38	0.25	0.25
Inverter Operation		Yes	Yes	Yes	Yes
Airflow	Without humidifying	396 / 240 / 84	306 / 168 / 60	210 / 132 / 48	-
	With humidifying	396 / 240 / 120	288 / 168 / 84	186 / 132 / 54	180 / 126 / 60
Noise Level	Without humidifying	51 / 39 / 17	47 / 35 / 15	45 / 34 / 15	-
	With humidifying	50 / 39 / 25	47 / 35 / 22	42 / 34 / 20	48 / 39 / 22
Special Program Mode		High-density Plasmacluster ion shower			
Filter Type	Dust Collection	Antimicrobial HEPA	Antimicrobial HEPA	Antimicrobial HEPA	HEPA (H10 in EN1822)
	Deodorization	Washable deodorizing	Washable deodorizing	Washable deodorizing	-
	Pre-filter	Yes	Yes	Yes	Yes
	Humidifying	Yes	Yes	Yes	Yes
Filter Life	HEPA / deodorizing filter	Up to 5 years	Up to 5 years	Up to 5 years	Up to 2 years
	Humidifying filter	Up to 2 years	Up to 2 years	Up to 2 years	Up to 1 years
Sensor	Odor	Yes	Yes	No	Yes
	Dust	Yes	Yes	Yes	No
	Temperature & humidity	Yes	Yes	Yes	No
	Clean sign indicator	Dust monitor	Yes (11 steps)	Yes (9 steps)	Yes (5 steps)
	Odor Sign	Yes (3 steps)	Yes (3 steps)	No	Yes (3 steps)
Light Control Button		Yes (bright / dim / off)	Yes (bright / dim / off)	Yes (bright / dim / off)	-
Power Cord Length (m)		2.0	2.0	2.0	2.0
Plug Type		Type C (2-pin)	Type C (2-pin)	Type C (2-pin)	Type C (2-pin)
Dimensions (W x H x D) (mm)		398 x 627 x 288	378 x 586 x 265	360 x 550 x 233	375 x 535 x 205
Net Weight (kg)		11.0	9.0	8.0	6.1
Replacement Filter	HEPA Filter	FZ-C150HFE	FZ-C100HFE	FZ-C70HFE	FZ-Y30SFE
	Deodorizing filter	FZ-C150DFE	FZ-C100DFE	FZ-C70DFE	-
	Humidifying filter	FZ-C100MFE	FZ-C100MFE	FZ-C100MFE	FZ-Y30MFE

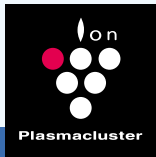
*1 Recommended room size: Calculated based on the JEM1467 standard of the Japan Electrical Manufacturers' Association.

*2 Measurement Conditions: 20°C, 30% humidity (JEM1426)

*3 Size of a room in which approximately 7000 ions can be measured per m³ in the center of the room (at a height of approximately 1.2 meters from the floor) when the product is placed next to a window and run at the MAX operation position.

* Operation manual language availability is subject to change.

Plasmacluster Ion Technology can inactivate and eliminate airborne viruses and other contaminations, it can't create a completely microbe-free environment. Actual numbers of ions and disinfecting/purifying effectiveness will vary according to the room conditions and operation method. Sharp does not guarantee its ability to prevent microbial infection.



FU-series Air Purifiers

HIGH-DENSITY PLASMACLUSTER IONS



FUW53E
40 m²*1



FUW43E
32 m²*1



FUZ31E
21 m²*1



FUY28E
19 m²*1

SPECIFICATIONS

Model	FUW53E	FUW43E	FUZ31E	FUY28E
Air Purifying System	High-density PCI generator and fan			
Plasmacluster Ion Modes	On/Off	On/Off	On/Off	On/Off
Remote Control	No	No	No	No
Recommended Room Size ^{*1}	40 m ²	32 m ²	21 m ²	19 m ²
Recommended Room Size ^{*3} for high-density Plasmacluster ions	20 m ²	15 m ²	13 m ²	16 m ²
Fan Speed	3 (max. / med. / Silent) auto and pollen			
Voltage/frequency (V, Hz)	220-240, 50/60	220-240, 50/60	220-240, 50/60	220-240, 50/60
Power Input (W) (max. / med. / low) Without humidifying	42 / 15 / 3.5	27 / 15 / 3.5	49 / 32 / 23	49 / 32 / 15
Standby Power (W)	0.8	0.8	1.0	1.0
Running Current (A)	0.33	0.22	-	-
Inverter Operation	Yes	Yes	No	Yes
Airflow (max./ med./ low) (m ³ /hour)	318 / 204 / 36	258 / 180 / 36	180 / 120 / 60	180 / 120 / 60
Noise Level (max./ med./ low) (dB)	52 / 40 / 14	47 / 40 / 14	44 / 35 / 24	44 / 35 / 24
Special Program Mode	High-density Plasmacluster ion shower			
Filter Type	Dust Collection	Antimicrobial HEPA	Antimicrobial HEPA	HEPA (H10 class in EN1822)
Deodorization	Washable deodorizing	Washable deodorizing	Washable deodorizing	-
	Pre-filter	No	No	Yes
	Humidifying	No	No	No
Filter Life	HEPA / deodorizing filter	Up to 5 years	Up to 5 years	Up to 2 years
	Humidifying filter	-	-	-
Sensor	Odor	Yes	Yes	No
	Dust	Yes	No	No
	Temperature & humidity	-	-	-
Clean sign indicator	Yes (3 steps)	Yes (3 steps)	Yes	-
Light Control Button	Yes (bright / dim / off)	Yes (bright / dim / off)	Yes	No
Power Cord Length (m)	2.0	2.0	2.0	2.0
Plug Type	Type C (2-pin)	Type C (2-pin)	Type C (2-pin)	Type C (2-pin)
Dimensions (W x H x D) (mm)	338 x 620 x 207	314 x 620 x 207	356 x 510 x 180	380 x 375 x 125
Net Weight (kg)	6.1	6.0	5.0 / 6.0	4.3
Replacement Filter	FZ-W53SEF	FZ-W53SEF	FZ-Y30SFE	FZ-Y28FE

*1 Recommended room size: Calculated based on the JEM1467 standard of the Japan Electrical Manufacturers' Association.

*2 Size of a room in which approximately 7000 ions can be measured per m³ in the center of the room (at a height of approximately 1.2 meters from the floor) when the product is placed next to a window and run at the MAX operation position.

* Operation manual language availability is subject to change.

• The filter itself may produce an odor and need to be replaced after several months if the air purifier is used to reduce strong odors, such as cigarette smoke or grilled meat. • Use the air purifier in combination with room ventilation if it is used for strong odors. • Not all harmful substances in cigarette smoke (e.g., carbon monoxide) can be removed. • Not all commonly occurring odors (e.g., pet odors) 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.

