High-Density Plasmacluster Ions
Remove Airborne Mold and Viruses

Plasma discharge generates and emits the same positive and negative ions that occur in nature. Plasmacluster technology is Sharp’s original air purifying technology that removes airborne mold and viruses. The benefits have been proven by official test institutions in Japan and around the world.

CERTIFIED WORLDWIDE
PLASMACLUSTER—GAINING TRUST AND NEW CUSTOMERS AROUND THE WORLD
(TESTED BY 28 INSTITUTES AND ORGANIZATIONS)

Used in a variety of industries
You Never Have to Be without It

In the 17 years since its release, products equipped with Plasmacluster ions have exceeded the 70 million-unit mark. Sharp aims to bring the benefits of Plasmacluster ions to every air space.

SHARP ELECTRONICS (MALAYSIA) SDN. BHD.

Email: productinfo@my.sharp-world.com
Product Enquiry: 03 5102 5369    Service Enquiry: 1 800 888 678 (Toll Free)
No.1A, Persiaran Kuala Langat, Section 27, 40400 Shah Alam, Selangor Darul Ehsan.
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.

Assured Safety

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

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Test name (abbreviation)</th>
<th>Ion density setting (ions/cm³)</th>
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<tbody>
<tr>
<td>General condition</td>
<td>Acute skin irritation</td>
<td>Approx. 1,000,000</td>
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<tr>
<td>General condition</td>
<td>Corrosion</td>
<td></td>
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<tr>
<td>General condition</td>
<td>Skin irritancy</td>
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<td>General condition</td>
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<tr>
<td>General condition</td>
<td>Corrosion</td>
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<tr>
<td>General condition</td>
<td>Eye irritancy (general condition)</td>
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<td>Body and organ toxicity</td>
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<td>Pregnant woman and fetus toxicity</td>
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<td>Inhalation toxicity</td>
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</table>

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Testing institution: LSI Medience Corporation

SHARP’s Original Technology

Plasma discharge generates and emits the same positive and negative ions that occur in nature. Plasmacluster technology is Sharp’s original air purifying technology that removes airborne mold and viruses.

Winner of the 2008 Invention Prize
National Invention Award Ceremony held by the Japan Institute of Invention and Innovation (JII)
Patented by Sharp (patent number 3680121)

Assured Safety

The safety of Plasmacluster ions has been verified, and so a high density of ions can be used. With more positive and negative ions in a room than even in a forest, Plasmacluster provides an environment of even greater effectiveness.

The Same Safe Ions As in Nature

Numbers of ± ions per 1 cm³ when measured near the center of a room at a height of 1.2 m from the floor with the product placed at a wall:

- Approx. 25,000 ions/cm³ - Sharp research
- Approx. 7,000 ions/cm³ - Sharp research

The concept of a high density of ions in a room.
Plasmacluster Air Purifiers Provide Solutions for Air-quality Concerns

Plasmacluster Ions Clean the Room Air

Removal of Airborne Mold
- Result after approx. 48 hours in a testing space of approx. 25 m³.
  - Tested by: Japan Electrical Manufacturers’ Association
  - Tested object: One type of airborne mold
  - Test method: Performance evaluation test according to voluntary standard HD-131 of the Japan Electrical Manufacturers’ Association
  - Result: No mold growth after 3 days

Reducing Growth of Adhering Mold
- Result after approx. 10 hours in an airtight testing space of approx. 25 m³.
  - Tested by: Soiken Inc.
  - Tested object: One type of adhering mold
  - Test method: Measurement of time required for a metal sensing plate charged to 5 kV to decrease in charge to 0.5 kV when irradiated with Plasmacluster ions (tested with reference to JIS TR C 0027-1).
  - Result: No mold growth after 3 days

Suppressing the Activity of Airborne Viruses
- Result after approx. 10 hours in an airtight testing space of approx. 25 m³.
  - Tested by: Pasteur Institute in Ho Chi Minh City, Vietnam
  - Tested object: One type of airborne virus
  - Test method: Performance evaluation test according to voluntary standard JEM 1467 of the Japan Electrical Manufacturers’ Association
  - Result: No effect after 3 days

Suppressing the Activity of Adhering Viruses
- Result after approx. 10 hours in an airtight testing space of approx. 25 m³.
  - Tested by: Soiken Inc.
  - Tested object: One type of adhering virus
  - Test method: Measurement of time required for a metal sensing plate charged to 5 kV to decrease in charge to 0.5 kV when irradiated with Plasmacluster ions (tested with reference to JIS TR C 0027-1).
  - Result: No virus activity after 3 days

Suppressing the Activity of Airborne Microbe
- Result after approx. 10 hours in a testing space of approx. 25 m³.
  - Tested by: Soiken Inc.
  - Tested object: One type of airborne microbe
  - Test method: Measurement of time required for a metal sensing plate charged to 5 kV to decrease in charge to 0.5 kV when irradiated with Plasmacluster ions (tested with reference to JIS TR C 0027-1).
  - Result: No growth after 3 days

Suppressing the Activity of Airborne Allergens from Dust Mite Feces and Remains
- Result after approx. 10 hours in a testing space of approx. 25 m³.
  - Tested by: Sharp
  - Tested object: Dust mite feces and remains
  - Test method: Performance evaluation test according to voluntary standard HD-131 of the Japan Electrical Manufacturers’ Association
  - Result: No activity after 3 days

Plasmacluster Ions and Air-Purification Technology Remove Haze

Air-Purification Technology Removes 99% of Haze Particles as Small as 0.06 μm in Size
- Result: After approx. 55 minutes for the KI-A60 and approx. 90 minutes for the FP-F30 in a testing space of approx. 41 m³.

Beautifying Skin with a Lustrous Sheen

Odors at portions not directly subjected to the airflow cannot be removed.

Spot Deodorization of Sweat Odor Clinging to Clothing in Approx. Six Hours
- Tested by: Sharp
  - Tested object: One type of adhering virus
  - Test method: The effectiveness of deodorizing a cloth swatch impregnated with sweat odor components and irradiated with Plasmacluster ions was evaluated by using the four-level odor indication method.
  - Result: No odor after 6 hours

Reduction of Static Electricity

Spots Deodorization of Damp-dry Odor on Clothes Drying indoors in Approx. Three Hours
- Tested by: Sharp
  - Tested object: One type of adhering virus
  - Test method: The effectiveness of deodorizing a cloth swatch impregnated with damp-dry odor components and irradiated with Plasmacluster ions was evaluated by using the four-level odor indication method.
  - Result: No odor after 3 hours

Skin-Beautifying Effects of High-Density Plasmacluster Ions

It Was Proven that Sharp’s Plasmacluster Ion and Air-Purification Technology Has the Effect on Haze in Collaboration with University Putra Malaysia

- The study found that a harmful substance such as toluene, pentanone is included in the organic chemicals in Haze.
- The results showed that toluene and pentanone were reduced by 91% and 44% after 24 hours, respectively.
- The results were confirmed by using the six-level odor intensity indication method.
- The study found that the air purifiers each required approx. 30 minutes to remove 99% of haze particles 0.06 μm or larger in size.
- The study also found that the air purifiers removed an average of 91% of toluene and 44% of pentanone after 24 hours.
- The study concluded that the air purifiers are effective in removing haze particles and harmful substances from the air.

Breakdown and Elimination of Clinging Odors

Tested by: Sharp
- Tested object: One type of adhering odor
  - Test method: The effectiveness of deodorizing a cloth swatch impregnated with sweat odor components and irradiated with Plasmacluster ions was evaluated by using the four-level odor indication method.
  - Result: No odor after 6 hours

Spot Deodorization of Damp-dry Odor on Clothes Drying indoors in Approx. Three Hours
- Tested by: Sharp
  - Tested object: One type of adhering odor
  - Test method: The effectiveness of deodorizing a cloth swatch impregnated with damp-dry odor components and irradiated with Plasmacluster ions was evaluated by using the four-level odor indication method.
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Beautifying Skin with a Lustrous Sheen

Odors at portions not directly subjected to the airflow cannot be removed.
A Wide Variety of Concerns Are Lurking in the Air of Your Living Environment

**Living Rooms**
- Contaminants from outside windows and doors. (e.g., viruses and pollen)
- Contaminants enter through open doors. (e.g., haze, particulate matter, pollen, and vehicle exhaust)
- The whole family, from children to the elderly, gather in the living room. Hidden in the living room air remain a wide variety of invisible contaminants, such as viruses, pollen, and haze invading from the outside, as well as odors and dust mite feces and remains that emerge inside.

**Bedrooms**
- We spend more than a quarter of each day in bed. Lingering odors of sweat, baking dust mites, and the emanating allergens of dust mite feces and remains prevent comfortable sleeping.
- Because children have a weaker immune system than do adults, it is important to provide a clean air environment. In addition to visible contaminants such as dust and pet hair, impurities such as viruses and dust mite remains remain hidden.

**Small Rooms**
- (for children or pets)
- The air in a closet can easily become stagnant, making closets a place in the house where mold easily grows. Also, because a lot of clothes are kept in a small space in a closet, clinging sweat odors linger.

**Closets**
- The air in a closet can easily become stagnant; making closets a place in the house where mold easily grows. Also, because a lot of clothes are kept in a small space in a closet, clinging sweat odors linger.

**Use in Cars**
- Because the air inside a car lingers, odors from eating food or smoking cigerettes easily cling to the inside. The odor of mold that emerges inside the car air conditioner prevents you from comfortable driving.
Faster airflow at a 20º angle collects dust at lower levels in the room for more deodorizing performance in actual use.

Harmful Gases

Cigarette odor/General odor in house/Odors

Harmful gases in HAZE.*3

Three Filters Effectively Capture Dust, Gas, and Odors.

What the HEPA Filter*5 Captures

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

Plasmacluster Ions Can Remove Mold*1, Viruses*2, Allergens*3, Odors*4, and Static Electricity

Three-step Dust Collection System

Electrostatics: HEPA Filter

Dust and other harmful particles are captured.

Double Deodorizing Filter

Airborne mold, Haze, Odor

New Pre-filter

Grass pollen, Tree pollen, Allergens

Airborne mold (bacteria, fungi, pollen, dust)

Dust (dirt, dust, pollen, mold)

Odors (cigarette, pet, cooking, odors)

Plasmacluster Air Purifier Three-step Dust Collection System

Air Purifiers with Humidifying (KC-G60/G50/G40, KC-D60/D50/D40)

Automatically Rotating Humidifying Structure Creates Clean Humidity Conditions

Plasmacluster Spot Mode

A high density concentration of Plasmacluster ions are discharged forward. This is effective in removing odors, bacteria, and odors clinging in remote areas of the room.

Simple Operation for Easy Everyday Use

Intelligent Mode with 7 Types of Detection in Effect (KC-G60/G50)

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 remain, as well as pollen, are removed.

Approved by the British Allergy Foundation

The number in this technology mark indicates the approximate number of ions supplied into 1 cm cube.


*2 Tested by Pasteur Institute, Ho Chi Minh City.

*3 Effectiveness in a test space of 41 m3 after 80 min. of use. The effectiveness depends on the use conditions.

*4 Effectiveness in a test space of 31 m3 after four weeks of use (one day: 24 hours). (tested by Sharp)

*5 Tested by Japan Food Research Laboratories.

*6 When smoking five cigarettes a day. Depending on the usage conditions, filter replacement may be required.


Air Purifiers with Dehumidifier

2 in 1 Air Purifying Dehumidifier

- Dehumidify and Mold Proof
- 180° Airflow
- Laundry and Deodorize
- Inactivate Virus and Allergen

Plasmacluster Technology

Plasmacluster (PCI) technology is SHARP’s original air purifying technology. Plasmacluster Ion (PCI) Generating Unit generates and emits the same positive and negative ions that occur in nature, inactivating suspended airborne mold and virus.

Acclaimed Plasmacluster Ion (PCI) Technology

- World & ASEAN’S No.1 Air Purifier Brand
- 70 million of SHARP’s products equipped with Plasmacluster Ion (PCI) technology sold in the world

**HEPA Filter**

- Collect tiny dust, PM2.5, allergens, cigarette particles\(^1\), and pollen as small as 0.3μm
- 99.97% dust collection rate\(^2\)

**Active Carbon Deodorizing Filter**

Active Carbon Deodorizing Filter has powerful deodorizing ability which removes various kinds of odors, such as cigarette smoke\(^1\), garbage odor and pet odor. It can also remove formaldehyde effectively.

**Detached Filters Diagram**

- Cigarette odor / General odor in House / Formaldehyde
- Fat tar / Large dust particle

**Various Caring Functions Satisfying Your Needs**

- Auto Dehumidifying
- Laundry Deodorizing
- Mold Proof and Virus Inactivated
- 180° Airflow Dehumidifying
- Auto Low / Medium / High
- 2/4/6 Hours Off Timers
- Continuous Drainage
- Full Tank Indicator

**DW-E16FA**

- 30°C / 80% Dehumidifying Capacity (Per day)
- 26.7°C / 60% Air Purifying Recommended Area
- 24m\(^3\) / 90% Dehumidifying Recommended Area
- 4 Types of Operation Modes: Auto / Laundry / Dehumidifying / Air Purifying Mode
- 4 Types of Fan Speed: Auto / Low / Medium / High
- B. Water Tank: Release PCI Effective in Inactivating Molds and Viruses

**Pic 1**

- HEPA Filter
- Active Carbon Deodorizing Filter
- Pre-Filter

**Pic 2**

- PM 2.5
- Cigarette odor / General odor in House / Formaldehyde
- Fat tar / Large dust particle

**Pic 3**

- 100° Airflow
- Laundry
- Dehumidifying
- Mold Proof and Virus Inactivated

\(^1\) Cannot remove harmful substances such as carbon monoxide
\(^2\) Dust collection efficiency of the filter for 0.3μm particles

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*Source: Euromonitor International Limited; Consumer Appliances 18ed, volume sales in units, 2017 data.
Air Purifiers with Humidifying

KC-G60/G50/G40


KC-G60

Recommended Room Size: 50 m²
(38 m² for humidifying*)

KC-G50

Recommended Room Size: 38 m²
(21 m² for humidifying*)

KC-G40

Recommended Room Size: 28 m²
(18 m² for humidifying*)

Intelligent Mode with 7 Types of Detection in Effect (KC-G60/G50)

Once you press the button, everything operates automatically. Humidifying and air purification are controlled according to the impurities, odors, temperature, and humidity of the air in the room. Also, a motion sensor detects whether people are present, working in coordination with a light sensor to automatically switch to energy-saving operation.

Three Filters Reliably Capture Dust, Gas, and Odors.

Electrostatic HEPA filter
Traps 99.97% of microscopic particles in the air.

Double Deodorizing filter
Absorbs cigarette odor, harmful gases in HAZE*3 and many other common household odors.

New Pre-filter
Captures larger than approx. 240 micron dust particles, washable.

Pet hair/Large dust particle
Harmful Gases
*3 Toluene, Ethylbenzene, xylene etc. The deodorizing performance for a single component odor in a 1m³ test container may be different than the deodorizing performance in actual use.

Effect of Plasmacluster Spot Mode Deodorization and Bacteria Removal

Removal of Clinging Odors
Removal of clinging bacteria

Ion density
Approx. 10 times or higher

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

Rotating humidifying mechanism structure

Rotating humidifying mechanism structure

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

Rotating humidifying mechanism structure

Rotating humidifying mechanism structure
Air Purifiers with Humidifying

KC-F30
Entry-level Air Purifier Model with Genuine Humidifying and HEPA Filter

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
- Humidity and temperature display
- Off timer (1, 2, 4, 8 hours)
- Dust indication monitor
- Auto reset

Floating Humidification System with Humidifying Filter Floating on Water

Fill the Humidifying Tray Directly with Tap Water
Use tap water to fill the water tank.

Specifications: Air Purifiers with Dehumidifying

<table>
<thead>
<tr>
<th>Models</th>
<th>KC-950</th>
<th>KC-955</th>
<th>KC-960</th>
<th>KC-965</th>
<th>DVE-W100W</th>
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<tr>
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<td>4.7 L/min</td>
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<td>4.7 L/min</td>
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<td>Standby power (W)</td>
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<td>316 x 660 x 293</td>
<td>316 x 660 x 293</td>
<td>316 x 660 x 293</td>
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<tr>
<td>Color</td>
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<td>White</td>
<td>White</td>
<td>White</td>
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<tr>
<td>Net weight (kg)</td>
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<td>5.5 kg</td>
<td>5.5 kg</td>
<td>5.5 kg</td>
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<td>Tank capacity (L)</td>
<td>2.5 L</td>
<td>2.5 L</td>
<td>2.5 L</td>
<td>2.5 L</td>
<td>2.5 L</td>
</tr>
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</table>

*8 At a smoking rate of five cigarettes per day.
*9 Volatile organic compound (VOC), Nitrous oxides (NOx), Nitrogen oxides (NOx), Ammonia (NH₃), Formaldehyde (HCHO), Toluene (C₆H₅CH₃), Ethyl acetate (C₄H₈O₂), Benzene (C₆H₆), and Chloroform (CHCl₃).

Airborne microbes and airborne dust can be reduced by using the air purifier in combination with room ventilation. 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.
Air Purifiers with Plasmacluster

FP-J80/J60/J40
Enjoy 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 is, the more effective Plasmacluster has.

FP-J80-H
Recommended Room Size: 80 m²

- Dust and Odor Indication Monitor
- Auto-Restart
- Child Lock
- Touch Panel

FP-J60-W
Recommended Room Size: 48 m²

- Dust and Odor Indication Monitor
- Auto-Restart
- Child Lock
- Touch Panel

FP-J40-W
Recommended Room Size: 30 m²

- Dust and Odor Indication Monitor
- Auto-Restart
- Child Lock
**Cleaner & Fresher with Smart Air Purifier**

**Remote Control (FP-J80)**

- Visualization of air quality and automatic operation based on air quality level.

**Home Fit (FP-J80)**

- Visualization for Air Quality (FP-200)

- Confirm that condition of air quality of the room has become clean visually.

**Filter Status Monitor (FP-J80)**

- Propose optimal timing for filter exchange.

**Sharp’s Unique Plasmacluster with Efficient Dust Collection Delivers Clean Comfortable Air in Your Room**

**Plasmacluster**

Plasmacluster ions can remove mold of approx. 25 m³ airflow setting. Approx. 9 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting. 99% reduction in approx.18 minutes, tested with a model in the same class as the FP-F30 operating at the High airflow setting.

**Plasmacluster Spot Mode (FP-J80/J60)**

High density concentration of Plasmacluster ions are discharged forward. This is effective in removing odors, bacteria, and viruses clinging in remote areas of the room. 3 Steps Filtration

- **High Performance Filters Capture airborne Dust Particles.**
  - **New Pre-filter**
  - **Deodorizing Filter**
  - **Electrostatic HEPA Filter**

**Sharp Air App**

Download the “SHARP AIR APP” from Apple Store and Play Store to connect your SHARP Air-Conditioner & Air Purifier to your smartphone. Enjoy the convenience of controlling your Air-Conditioner & Air Purifier via smartphone, anywhere and anytime. Monitor electricity consumption, room conditions, appliances operation and get notified if appliances encounter error.

**Convenient Features for Everyday Comfort**

- **Automatic Operation**
  - Once you press the button, everything operates by sensors automatically.

- **HAZE Special Mode**
  - Operates at 400 m³/h speed for 30 minutes and the alternates between Low and High level for 20 minutes each.

**Convenient function**

- **Timer Function**
  - 24/7 Timer (1-7 hours) [FP-J80]  
  - Daily Timer (1-7 days) [FP-J80, J60]

- **Child Lock**

- **Touch Panel (FP-J80/FP-J60)**

**Visualization of air quality and automatic operation based on air quality level.**

**Efficiency**

<table>
<thead>
<tr>
<th>Object tested</th>
<th>Tested by</th>
<th>Test result</th>
<th>Evaluation test according to voluntary standard JEM 1467 of the Japan Electrical Manufacturers’ Association in a testing space of approx. 25 m³.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allergens from dust mite feces and remains</td>
<td>Japan Food Research Laboratories</td>
<td>99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting.</td>
<td></td>
</tr>
<tr>
<td>Microbe</td>
<td>Japan Food Research Laboratories</td>
<td>99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting.</td>
<td></td>
</tr>
<tr>
<td>Smoke components on clothes drying</td>
<td>Pasteur Institute in Ho Chi Minh City, Vietnam</td>
<td>99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting.</td>
<td></td>
</tr>
<tr>
<td>General odor in house</td>
<td>Shokukanken Inc.</td>
<td>99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting.</td>
<td></td>
</tr>
<tr>
<td>PM2.5</td>
<td>Japan Food Research Laboratories</td>
<td>99% reduction in approx. 14 minutes, tested with a model in the same class as the FP-J60 operating at the High airflow setting.</td>
<td></td>
</tr>
</tbody>
</table>

**Odors & Dust**

- **Smoke**
  - **Cigarette odor**
  - **Pet hair/Large dust**
  - **Clothing clothes drying**

- **Dust**
  - **Odors**
  - **Odors of static electricity**

- **Electrostatic HEPA filter**
  - **New Pre-filter**
  - **Deodorizing Filter**

**Air Purifying Removal of Odor**

- **Spot Deodorization**
  - **Electrostatic HEPA filter**
  - **New Pre-filter**

**Deodorizing Filter**

- 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-J60 operating with High airflow setting.

**General Odor**

- **General odor in house**
  - **Odors**
  - **Odors of static electricity**

**Airborne Allergens**

- **Airborne Allergens**
  - **Skin**
  - **Cigarette odor**

**Air Purifying Removal of Allergens**

- **Air Purifiers with Plasmacluster and AIOT**

**3 Steps Filtration**

- **Air Filters with Plasmacluster and AIOT**

**New Pre-filter**

- **New Pre-filter**
  - **Captures larger than approx. 240 micron dust particles, washable.**

**Deodorizing Filter**

- **Deodorizing Filter**
  - **Captures larger than approx. 100,000/cm³, Odors and clinging bacteria.**

**Electrostatic HEPA Filter**

- **Electrostatic HEPA Filter**
  - **Captures larger than approx. 0.3 micron particles, evaluates.**

**Visualization of air quality and automatic operation based on air quality level.**

**Effect of Plasmacluster Spot Mode Pre-dispersion and Bacteria Removal**

- **Effect of Plasmacluster Spot Mode Pre-dispersion and Bacteria Removal**
  - **Bacteria**
  - **Clinging bacteria**

**Convenient Features for Everyday Comfort**

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**Visualization of air quality and automatic operation based on air quality level.**

**Effect of Plasmacluster Spot Mode Pre-dispersion and Bacteria Removal**

- **Effect of Plasmacluster Spot Mode Pre-dispersion and Bacteria Removal**
  - **Bacteria**
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**Convenient Features for Everyday Comfort**

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

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- **Timer Function**
  - **24/7 Timer (1-7 hours) [FP-J80]**
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- **Child Lock**

- **Touch Panel (FP-J80/FP-J60)**

**Visualization of air quality and automatic operation based on air quality level.**
Air Purifiers with Plasmacluster

FP-J30L
Sharp Plasmacluster Air Purifiers Provide Comfortable Living Simple and Compact Design

Plasmacluster Ions Can Reduce Mold**, Viruses**, Allergens**, Odors**, and Static Electricity

Convenient Features for Everyday Comfort
• Haze Mode Powerfully Collects Haze Particles and Keeps the Room Air Clean
• Reliable rounded design even when small children touch

Three-Step Dust Collection System with Plasmacluster Technology for Everyday Use
1 REMOVE
Removal of Micro-scale Dust Particles including 0.5-Micron Viruses and Dust Allergens
2 COLLECT
Airborne allergens from dust mite feces and remains were suspended in a testing space of 25 m3 in 99% and deodorized to unnoticeable levels after 90 minutes in a testing space of 41 m3. (tested by Sharp)
3 CAPTURE
Removal of Micro-scale Dust Particles including 0.5-Micron Viruses and Dust Allergens

Three-Step Dust Collection System with Plasmacluster Technology for Everyday Use
1 REMOVE
Removal of Micro-scale Dust Particles including 0.5-Micron Viruses and Dust Allergens
2 COLLECT
Captures larger than approx. 240 micron Dust Particles
3 CAPTURE
0.3-Micron Viruses and Dust Allergens

Convenient Features for Everyday Comfort
• On/Off Timer function (1-12 hours)
• 3 colors lighting (blue/green/red) to show the air-purification technology and stylish product design
• Designed to fit in any room
• Sophisticated flat touch panel fits with acrylic front panel design. It turns off automatically a few seconds after use.
• Smoke sensor

Three-Step Dust Collection System with Plasmacluster Technology for Everyday Use
1 REMOVE
Removal of Micro-scale Dust Particles including 0.5-Micron Viruses and Dust Allergens
2 COLLECT
Captures larger than approx. 240 micron Dust Particles
3 CAPTURE
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• Smoke sensor

Air Purifiers with Plasmacluster

FP-H90
Enjoy comfortable and high quality space with SHARP air-purification technology and stylish product design

Convenient Features for Everyday Comfort
• Haze Mode Powerfully Collects Haze Particles and Keeps the Room Air Clean
• Reliable rounded design even when small children touch

Three-Step Dust Collection System with Plasmacluster Technology for Everyday Use
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Captures larger than approx. 240 micron Dust Particles
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0.3-Micron Viruses and Dust Allergens

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• 3 colors lighting (blue/green/red) to show the air-purification technology and stylish product design
• Designed to fit in any room
• Sophisticated flat touch panel fits with acrylic front panel design. It turns off automatically a few seconds after use.
• Smoke sensor
**Specifications: Air Purifiers with Plasmacluster**

<table>
<thead>
<tr>
<th>Model</th>
<th>FPH90LW</th>
<th>FPH90LWP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>W (White)</td>
<td>B (Black), F (Pink), A (Blue)</td>
</tr>
<tr>
<td><strong>Recommended area</strong></td>
<td>Air purifying</td>
<td>Air purifying</td>
</tr>
<tr>
<td><strong>Filter purification</strong></td>
<td>Adsorbs carbon and reduces odor</td>
<td>Adsorbs carbon and reduces odor</td>
</tr>
<tr>
<td><strong>Plenum fan</strong></td>
<td>56 / 39 / 28</td>
<td>63 / 48 / 33</td>
</tr>
<tr>
<td><strong>Standby power (W)</strong></td>
<td>0.9</td>
<td>0.6</td>
</tr>
<tr>
<td><strong>Noise level (Max / Med / Low) (dB)</strong></td>
<td>47 / 41 / 35</td>
<td>47 / 39 / 30</td>
</tr>
<tr>
<td><strong>Noise level (Max / Med / Low) (dB)</strong></td>
<td>23 / 18 / 13</td>
<td>22 / 17 / 12</td>
</tr>
<tr>
<td><strong>Recommended area for high-density Plasmacluster ions</strong></td>
<td>23 m²</td>
<td>16 m²</td>
</tr>
<tr>
<td><strong>Recommended area</strong></td>
<td>Air purifying</td>
<td>Air purifying</td>
</tr>
<tr>
<td><strong>Recommended area</strong></td>
<td>for high-density Plasmacluster ions</td>
<td>Air purifying</td>
</tr>
<tr>
<td><strong>Operation modes</strong></td>
<td>Max / Med / Low / Pollen / Sleep</td>
<td>Max / Med / Low / Pollen / Sleep</td>
</tr>
<tr>
<td><strong>Voltage/frequency (V, Hz)</strong></td>
<td>220-240, 50-60</td>
<td>220-240, 50-60</td>
</tr>
<tr>
<td><strong>Power input (Max / Med / Low) (V, Hz)</strong></td>
<td>44 / 28.5 / 25</td>
<td>38 / 26.5 / 24</td>
</tr>
<tr>
<td><strong>Filter type</strong></td>
<td>Dust collection</td>
<td>Dust collection</td>
</tr>
<tr>
<td><strong>Auto restart</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Special program mode</strong></td>
<td>Auto, Haze</td>
<td>Auto, Haze</td>
</tr>
<tr>
<td><strong>Filter life</strong></td>
<td>Up to 10 years*6</td>
<td>Up to 10 years*6</td>
</tr>
<tr>
<td><strong>Clean sign indicator</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Yes*3</td>
<td>Yes*3</td>
</tr>
<tr>
<td><strong>Taper</strong></td>
<td>Yes (on / off) (1-12h)</td>
<td>Yes (on / off) (1-12h)</td>
</tr>
<tr>
<td><strong>Filter type</strong></td>
<td>Coarse filter</td>
<td>Coarse filter</td>
</tr>
<tr>
<td><strong>Pre-filter</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Auto restart</strong></td>
<td>Yes</td>
<td>Yes</td>
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<td>Auto, Haze</td>
<td>Auto, Haze</td>
</tr>
<tr>
<td><strong>Filter life</strong></td>
<td>Up to 2 years*6</td>
<td>Up to 2 years*6</td>
</tr>
<tr>
<td><strong>Clean sign indicator</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Yes*3</td>
<td>Yes*3</td>
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</tr>
<tr>
<td><strong>Auto restart</strong></td>
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<td>Yes</td>
</tr>
<tr>
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<td>Auto, Haze</td>
<td>Auto, Haze</td>
</tr>
<tr>
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<td>Up to 2 years*6</td>
</tr>
<tr>
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<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Yes*3</td>
<td>Yes*3</td>
</tr>
<tr>
<td><strong>Taper</strong></td>
<td>Yes (on / off) (1-12h)</td>
<td>Yes (on / off) (1-12h)</td>
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<td><strong>Clean sign indicator</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Yes*3</td>
<td>Yes*3</td>
</tr>
<tr>
<td><strong>Taper</strong></td>
<td>Yes (on / off) (1-12h)</td>
<td>Yes (on / off) (1-12h)</td>
</tr>
</tbody>
</table>

*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 center 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 airflow, when a Plasmacluster ion generator using a high-density Plasmacluster ion-generating device is placed close to a wall.

*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: Up to 10 years for the Plasmacluster ion-generating device, and up to 2 years for the filter. Actual life may vary depending on usage conditions. Replace the filter periodically as necessary.
Removing Threats from Your Daily Life to Provide You with a Comfortable and Safe Environment

1. Plasmaccluster
2. Air Purifying
3. Mosquito Catcher

Capture and Protect from Mosquitoes with 100% Harmless 5 Effective Steps*2 of Mosquito Catcher

- UV light attracts mosquitoes
- Enticing black color
- Ideal entrance design
- Powerful airflow and suction
- Strong glue sheet

Lab Test: Mosquito and flies are captured on the glue sheet. The floor remains free of mosquitoes, and it is easy to clean.

*1 Sharp developed the world’s first air purifiers with mosquito catcher using UV light, a black panel catching mosquitos, and a sticky sheet. The first model, the FP-FM40, was released in September 2015.

*2 The mechanism of the mosquito catcher is 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.

Reduce up to 91% of Culex, 73% of Aedes, and 72% of Housefly*3

Effective mechanism based on mosquito behaviour

1. Enticing black color
2. Ideal entrance design
3. Powerful airflow and suction
4. Strong glue sheet

FP-GM50
Recommended Room Size: 46 m²

FP-FM40
Recommended Room Size: 30 m²

FP-GM30
Recommended Room Size: 21 m²
**Specifications: Air Purifier with Mosquito Catcher**

### Model Comparison

<table>
<thead>
<tr>
<th>Model</th>
<th>PF-G50AE</th>
<th>PF-G50HE</th>
<th>PF-G50HE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Metallic Pink</td>
<td>Champagne Gold</td>
<td>Metallic Pink</td>
</tr>
<tr>
<td>Recommended area*</td>
<td>60~75 sq. ft.</td>
<td>90~105 sq. ft.</td>
<td>120~150 sq. ft.</td>
</tr>
<tr>
<td>HEPA filter</td>
<td>2140</td>
<td>3680</td>
<td>5380</td>
</tr>
<tr>
<td>Operation modes</td>
<td>Max/Med/Sleep</td>
<td>Max/Med/Sleep</td>
<td>Max/Med/Sleep</td>
</tr>
<tr>
<td>Power input (Max/Med/Sleep) (W)</td>
<td>180 / 120 / 78</td>
<td>330 / 220 / 180</td>
<td>480 / 330 / 270</td>
</tr>
<tr>
<td>Airflow (Max/Med/Sleep) (m³/hour)</td>
<td>306 / 186 / 48-90</td>
<td>394 / 220 / 54-90</td>
<td>489 / 330 / 72-90</td>
</tr>
<tr>
<td>Ion density (approx.)</td>
<td>3 Steps</td>
<td>3 Steps</td>
<td>3 Steps</td>
</tr>
<tr>
<td>Operating noise level (Max/Med/Sleep) (dB)</td>
<td>36 dB</td>
<td>36 dB</td>
<td>36 dB</td>
</tr>
<tr>
<td>Dimensions (W x H x D) (mm)</td>
<td>236 x 580 x 281</td>
<td>296 x 580 x 281</td>
<td>409 x 580 x 281</td>
</tr>
<tr>
<td>Net weight (kg)</td>
<td>3.8</td>
<td>3.8</td>
<td>3.8</td>
</tr>
</tbody>
</table>

### Additional Information

- **HEPA filter** removes more than 99.97% of 0.3-micron dust particles.
- **Smart program mode** allows the air purifier to automatically adjust settings based on ambient conditions.
- **Noise level** is kept to a minimum for quiet operation.
- **Filter type** includes HEPA and Active Carbon Deodorizing filters.
- **Dimensions** and **Net weight** are provided for easy transport and storage.

---

**Note:** Specifications and design are subject to change without prior notice. Actual colors may vary slightly from those shown in this brochure. Please refer to the user manual for detailed instructions and maintenance guidelines.

---

**Plasmacluster Ion Generator**

**IG-GC2**

Keep your personal space comfortable

### Double-speed deodorizing with turbo mode

- **High deodorizing** in a short period of time.
- **Turbo mode** provides a powerful deodorizing effect.
- **Noise level**: 23 dB (quiet operation)

### Quiet operation

- **No interruption of phone conversations**
- **Efficient deodorization**
- **Small form factor**

### Tiny dust and pollen collection

- **FZ-F50SFE** for small rooms (23 m²)
- **FZ-F40SFE** for medium rooms (40 m²)
- **FZ-GM30** for larger rooms (23 m² to 40 m²)

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**Plasmacluster Ion Generator**

**IG-GC2**

- **Double-speed deodorizing with turbo mode**
- **Net weight**: 3.8 kg
- **Dimensions**: Upper: 74 mm / Lower: 65 mm / Height: 162 mm
- **Power consumption**: 1.8 W/0.7 W/0.5 W
- **Noise level**: 36 dB
- **Replacement filter** available

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**Active Carbon Deodorizing Filter**

- **Adsorption** of odors and unpleasant smells.
- **Special program mode** for enhanced deodorization.

---

**Active Carbon Deodorizing Filter**

- **Adsorption** of odors and unpleasant smells.
- **Special program mode** for enhanced deodorization.