

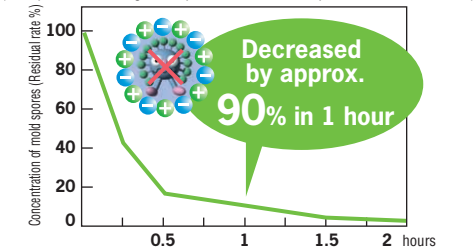
for a clean and healthy life

## Plasmacluster Ions inactivate airborne mold spores and reduce mold odours

Plasmacluster Ions quickly surround then inactivate airborne mold spores. They also reduce mold odours caused by propagation of mold. Plasmacluster Ion technology is effective against cigarette smoke\* that contains nitrogen oxide (NO), styrene and acetic acid.

\* Toxic substances found in smoke, such as carbon monoxide, cannot be removed.

Inactivation Performance on Airborne Mold Spores  
(Test performed using an air purifier, FU-L40X, Japanese domestic model)



Mode of operation: Plasmacluster Ion generator single operation in an experimental room approximately 5.0 square meters. Temperature inside the room: 25°C. Humidity: 42% RH. Method of measurement: Air samples measuring the quantity of mold spores were taken from inside the room at a point approx. 1.3 m above the floor and 2.0 m from the outlet. Inactivation method: Without filter, generate Plasmacluster Ions in the air. Test performed by the Ishikawa Prefecture Preventive Medicine Association in Japan.

Mold-generating Experiment



Without Plasmacluster Ions  
(Test performed by Sharp Corporation)



With Plasmacluster Ions

## Plasmacluster Ions create +/- ion balance

In contrast to the city, the forest has a perfect balance of +/- ions, creating a clean and healthy environment. Sharp Corporation, as part of our commitment to the earth has replicated this natural process in Plasmacluster Ion Technology. Our built-in sensors monitor your environment and react to maintain this perfect balance.

Plasmacluster™ Ion dual function air purifiers filter the air first, then disperse cleansing ions throughout the room.



### Energy efficiency Operation

(FPN60CX and FPN40CX only)

Sharp's air purifiers employ a DC motor and highly efficient inverter control to permit operation 24 hours a day, 365 days a year. They are designed to provide energy savings even when left running over a long period of time.

### Ultra Quiet Operation

(FPN60CX only, operating in quiet mode)

Noise level of only 15 dB\*

This is quiet enough not to disturb your sleep.

\* When operating in quiet mode. Operating noise when operating in high mode (air volume 3.7 m<sup>3</sup>/minute) is 40 dB.  
\* The decibel (dB) is a unit used to express the power or intensity of electricity or sound. Originally an electrical term, it is now used even more commonly than phone as a unit of acoustic intensity.

Sharp's air purifier is ideal for a variety of spaces



**Commercial-Use Air Purifier**

**Conference room**

**Reception Area**

**FU-800 (Silver)**

- Plasmacluster Ions (dual generating units)
- Bacteriostatic filter multiplies the effectiveness of purification with Plasmacluster Ions.
- Twin fans give high air-flow of 8 m<sup>3</sup>/min.
- Superior quiet operation of 14 dB (when operated in quiet mode)
- Top-class energy-efficient inverter operation using a DC motor
- 24-hour arbitrary ON/OFF with 3 settings (time, airflow, ion)
- Double sensors (odour and dust)

Applicable floor area\*\*  
Max. 61 m<sup>2</sup>

Design and Specifications subject to change without notice.



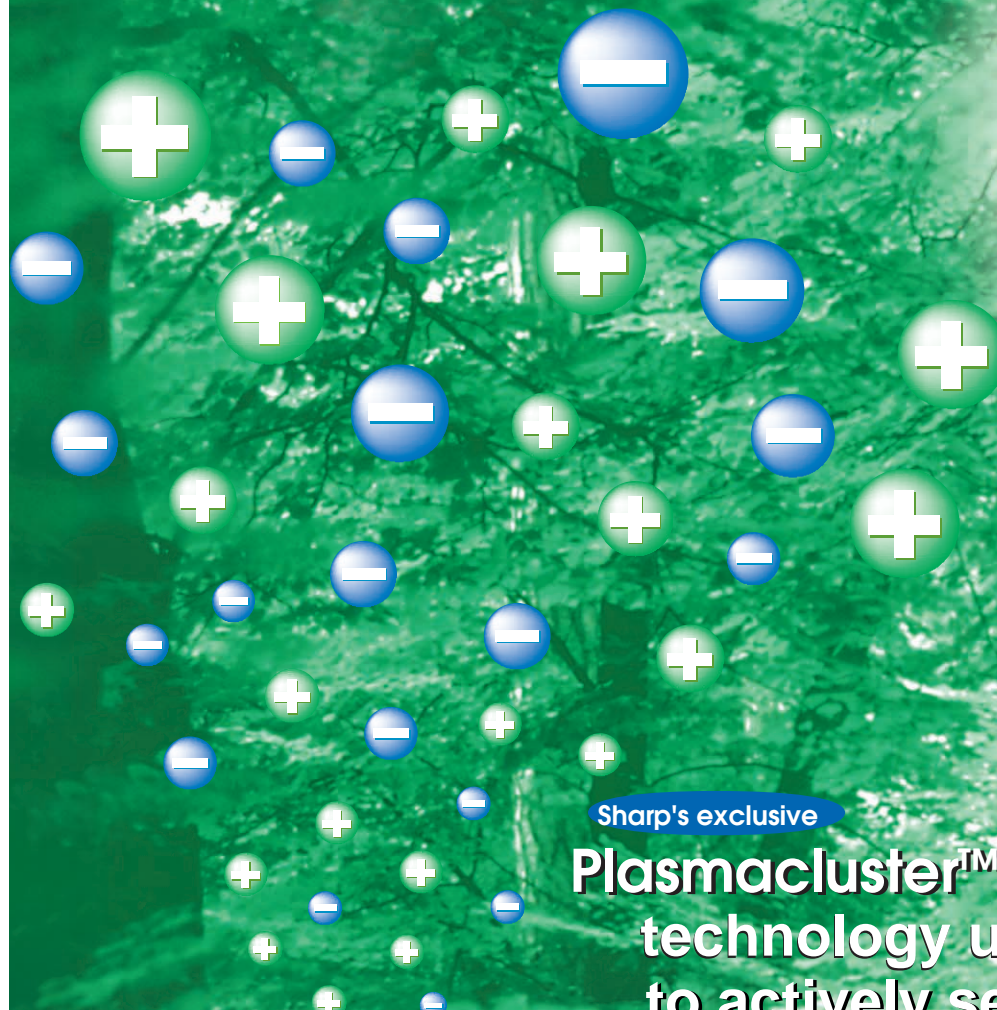
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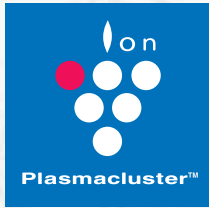
Sharp's exclusive

**Plasmacluster™ Ion (PCI)** technology uses a +/- ion shower to actively seek out airborne bacteria, virus, mold, fungi, smoke, pollen and odour causing particles.

When combined with the built-in HEPA filter, PCI's dual function system has unparalleled effectiveness.





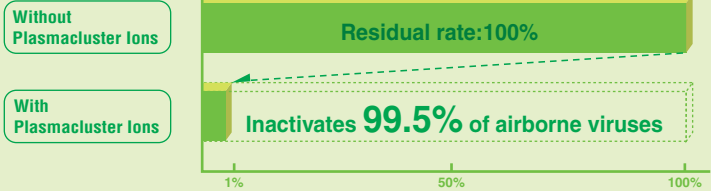


\* Plasmacluster is a trademark of Sharp Corporation.

Sharp's exclusive Plasmacluster™ Ions are effective against airborne viruses and mold spores

## Plasmacluster Ions inactivate airborne viruses

Inactivation Performance on Airborne Viruses  
(Results of one pass test. Actual inactivation rate may differ according to room conditions and the model in use)

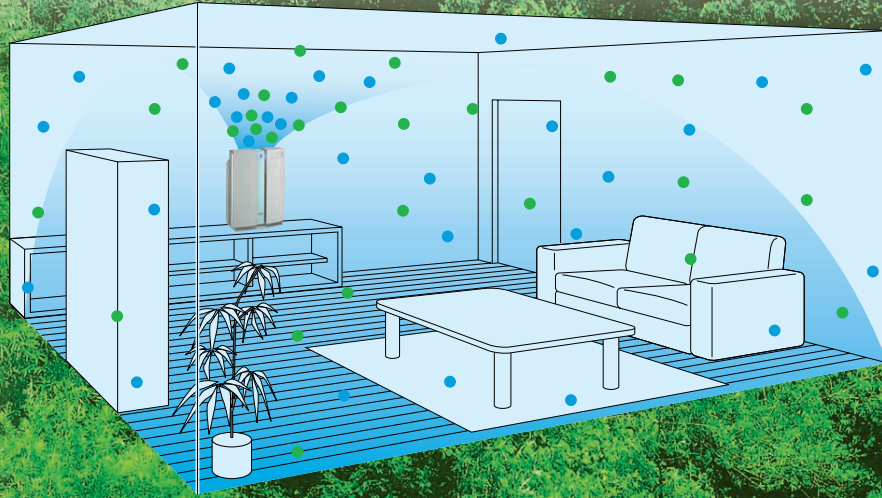


■ Test method: One pass test, where a Plasmacluster Ion generator is placed in a cylindrical chamber (diameter: 5.5 cm, length: 20 cm) through which airborne viruses (approx. 2,000 pts per 300 L of air) are passed at the speed of approx. 4 m/sec and the inactivation rate is measured. This is then compared with the residual rate of viruses detected in the chamber without a Plasmacluster Ion generator in place. ■ Tested viruses: Natural airborne viruses. ■ Inactivation method: Generate Plasmacluster Ions (200,000/cm<sup>3</sup>) in the chamber. ■ Test performed by the Kitasato Research Center of Environmental Sciences in Japan.

Sharp's exclusive and highly esteemed Plasmacluster Ion technology introduced a new system to inactivate airborne viruses. Plasmacluster Ions are now becoming accepted throughout the world as an indispensable air treatment system. The key by-product of (+) and (-) ions is Hydroxyl. Hydroxyl robs the airborne particles of the hydrogen necessary to survive. Environmental scientists from around the world now recognize the importance of Hydroxyl as nature's air cleansing element. In this way, Sharp's Plasmacluster Ion technology replicates the Earth's natural cleaning system within your personal environment.



## Plasmacluster Ions disperse throughout the room



Conventional air purification systems filter air through the unit itself, which is not only a time-consuming process but also results in sections of the room being left unpurified. Sharp's exclusive Plasmacluster Ion technology, in contrast, releases Plasmacluster Ions throughout the entire room, cleaning all of the air quickly and effectively.

## Slim and stylish design to fit any decor

### A powerful unit capable of rapidly purifying the air in a large room

Applicable floor area\*1: 8 Ft. / 2.43m ceiling Height  
**Approx. 330 Sq.ft. / 30 m<sup>2</sup>**  
Filter replacement guideline\*2  
**Approx. 5 years**

#### FPN60CX (Silver)

- Plasmacluster Ions
- Automatic Ion Balance Control
- Anti-Bacteria Apatite HEPA Filter
- Stamina Power Activated Carbon Filter
- Dual Sensors (Odour and Dust)
- Special Mode for Pollen Removal
- Quiet, Energy-Efficient Inverter Operation
- Convenient Clean Status Indicator
- Remote Control



Applicable floor area\*1: 8 Ft. / 2.43m ceiling Height  
**Approx. 253 Sq.ft. / 23 m<sup>2</sup>**  
Filter replacement guideline\*2  
**Approx. 5 years**

#### FPN40CX (Silver)

- Plasmacluster Ions
- Automatic Ion Balance Control
- Anti-Bacteria Apatite HEPA Filter
- Stamina Power Activated Carbon Filter
- Odour Sensor
- Special Modes for Smoke/Pollen Removal
- Quiet, Energy-Efficient Inverter Operation
- Convenient Clean Status Indicator
- Remote Control

## Plasmacluster™ Ion Technology researched and awarded

Sharp's Plasmacluster Ion technology has been acclaimed by academic institutions from around the world. It has received many awards, including the Takagi Award from the Society of Non-Traditional Technology. The effectiveness was validated in the following countries:



• Japan



Kitasato Research Center of Environmental Sciences (Airborne viruses)

• Japan



Ishikawa Prefecture Preventive Medicine Association (Airborne mold spores)

• China



Shanghai Municipal Preventive Medicine Research Institute (Airborne mold spores)

• Germany



The University of Lübeck (Airborne mold spores)

### Specifications

	FPN60CX	FPN40CX	FPN25CX
Rating Voltage (V)	120	120	120
Power Consumption (Watts)	0.8W in Standby / 4.54W in Operation	0.8W in Standby / 3.25W in Operation	0.8W in Standby / 25W in Operation
Air-Purifying System	Plasmacluster Ions/Fan Type	Plasmacluster Ions/Fan Type	Plasmacluster Ions/Fan Type
Filter	Dust	HEPA	HEPA
	Odour	Washable Activated Carbon	Washable Activated Carbon
	Anti-bacteria	Apatite	Apatite
Clean Sign	Yes	Yes	Yes
Applicable Floor Area (sq.ft./m <sup>2</sup> )	330 / 30	253 / 23	132 / 12
Sensor Auto Mode	Yes	Yes	Yes
Special Program Mode	Festures	Pollen	Pollen / Quick Auto
Air Flow Volume (CFM)	28-212	18-141	Max. 88
OFF Timer (hours)	1/4/8	1/4/8	1/4/8
Sensor	Odour/Dust	Odour	Odour
CADR (Dust / Smoke / Pollen)	209 / 213 / 205	157 / 163 / 156	86 / 85 / 85
Outside Dimensions (WxHxD)	416x572x240 mm	416 x572x202 mm	420 x420x150 mm
Weight	Approx. 9 kg	Approx. 7 kg	Approx. 4.4 kg

\*1 Applicable floor area: Measured according to JEM1467, the standards of the Japan Electrical Manufacturer's Association.  
\*2 Filter replacement guideline: Based on 10 cigarettes smoked per day in a general household. The test was conducted according to JEM1467.  
\*3 Please note that Plasmacluster™ ion air purifiers are not medical devices. Performance will vary depend on room size, air quality and the method of use.  
\* Design and specifications are current as of February 2003, but are subject to change without prior notice.

### A stylish unit for smaller rooms

Applicable floor area\*1: 8 Ft. / 2.43m ceiling Height  
**Approx. 132 Sq.ft. / 12 m<sup>2</sup>**  
Filter replacement guideline\*2  
**Approx. 2 years**

#### FPN25CX (Silver)

- Plasmacluster Ions
- Automatic Ion Balance Control
- Anti-Bacteria Apatite HEPA Filter
- Activated Carbon Filter
- Odour Sensor
- Special Modes for Smoke/Pollen Removal
- Automatic Operation
- Three Air Flow Speeds (Quiet Low to Powerful High)
- Convenient Clean Status Indicator
- Remote Control

