

SHARP

Be Original.



PLASMACLUSTER FX-J80
THE MOBILE SOLUTION FOR BIGGER SPACES

Coverage

62

meter²



With a higher density of
25,000 ions/cm³

What is Plasmacluster?



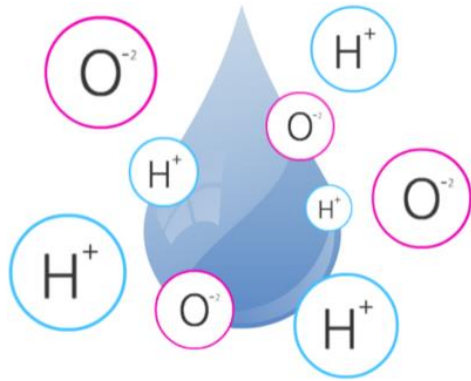
Plasmacluster technology is the innovative and unique Japanese technology that belongs only to SHARP.

With its unique scientific concept, Plasmacluster technology is considered as one of the safest and most effective air decontamination technologies that can create a safe and healthy environment by providing an optimum and continuous protection against airborne:

- Viral infections
- Bacterial infections
- Fungal infections
- Dust Mites Allergens
- Dust Particles
- Bad Odors



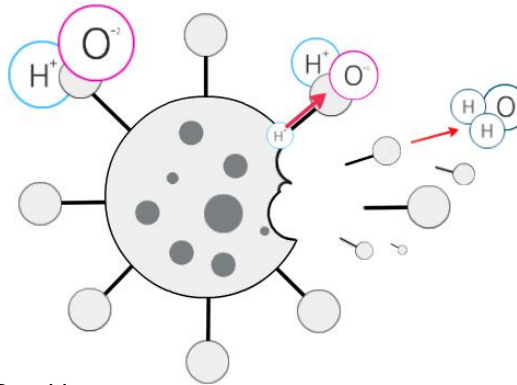
Plasmacluster Air Decontamination Mechanism



Releasing ions

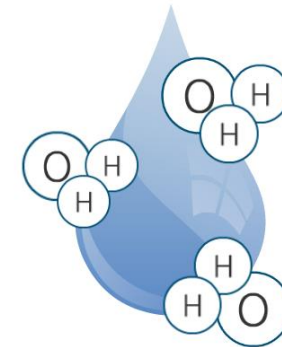
Water vapor molecules normally existing in the air are broken down by Plasmacluster ion generator.

A balanced amount of positive and negative **ions** are released.



Breaking the microbe

Ions attach to the outside of the microbe breaking it down and killing the microbe.



Returning to humidity

The **ions** return to the air in the form of water vapor again.

Plasmacluster Tested Around The World



U.K. Viruses

- Retroscreen Virology

Georgia Efficacy proven in clinical trials

- National Center 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

Thailand

- Bacteria**
 - Chest Disease Institute

Malaysia

- HAZE (Analysis of component)**
 - University Putra Malaysia

Vietnam

- Viruses**
 - Pasteur Institute of Ho Chi Minh City
 - Hanoi College of Technology, Vietnam National University

China

- Viruses**
 - Shanghai Municipal Center for Disease Control and Prevention
- Fungi**
 - Shanghai Municipal Center for Disease Control and Prevention
- Bacteria**
 - Shanghai Municipal Center for Disease Control and Prevention

India

- Air Pollutants**
 - Profs of Indian Institute of Technology Delhi

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 Center, University Hospital, University of Tokyo
 - Animal Clinical Research Foundation
 - Soiken Inc.
 - School of Bioscience and Biotechnology, Tokyo University of Technology
 - HARG Treatment Center, National Trust Co., Ltd.
- Viruses**
 - Kitasato Research Center of Environmental Sciences
 - Kitasato Institute Medical Center Hospital
 - Shokukanken Inc.
 - National Research Center for the Control and Prevention of Infectious Diseases/Institute of Tropical Medicine, Nagasaki University
- 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
 - Biosfir Inc.
 - Medical Mycology Research Center, Chiba University

South Korea

- Viruses**
 - Seoul National University

Indonesia

- Viruses**
 - University of Indonesia

HAZE (Toluene, Pentanone)

- Sumika Chemical Analysis Service
- Bacteria**
 - Ishikawa Health Service Association
 - Kitasato Research Center of Environmental Sciences
 - Kitasato Institute Medical Center Hospital
 - Animal Clinical Research Foundation
 - Japan Food Research Laboratories
 - Shokukanken Inc.
- Odors, 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 moisturizing (water molecule coating) effect**
 - Research Institute of Electrical Communication, Tohoku University
- Stress and Concentration level**
 - Dentsu Science Jam Inc.

U.S.A.

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

Why Plasmacluster air purifiers are ?

	PLASMACLUSTER TECHNOLOGY	OTHER IONIZERS TYPE 1	OTHER IONIZERS TYPE 2	UV-LIGHT LAMP SYSTEM	HEPA ONLY SYSTEM
Ions release	To the room atmosphere (real-time air decontamination)	To the room atmosphere (real-time air decontamination)	Only inside the device (No real-time decontamination)	NA	NA
Airborne Viral elimination	YES	YES	YES (Only when vacuumed inside the device)	YES	NO
Efficacy against Particles, bacteria, fungi & allergens (Bigger than 0.3um)	YES	YES	YES	NO	YES
Efficacy against Bacteria, fungi & allergens (Smaller than 0.3um)	YES	YES	YES	YES	NO
Odors Elimination	YES (in selected models)	YES (in selected models)	YES (in selected models)	NO	YES (in selected models)
In-dependability on vacuum power	YES	YES	NO	YES	NO
Continuity of usage	YES	YES	YES	NO	YES
Free of Shadow effect	YES	YES	YES	NO	YES
Safety	Balanced amount of +ve & -ve ions	Only -ve ions released which may create Ozone	Safe	No Human presence not allowed	Safe
Scientifically testing	YES	Very low number of testing	YES	YES	YES

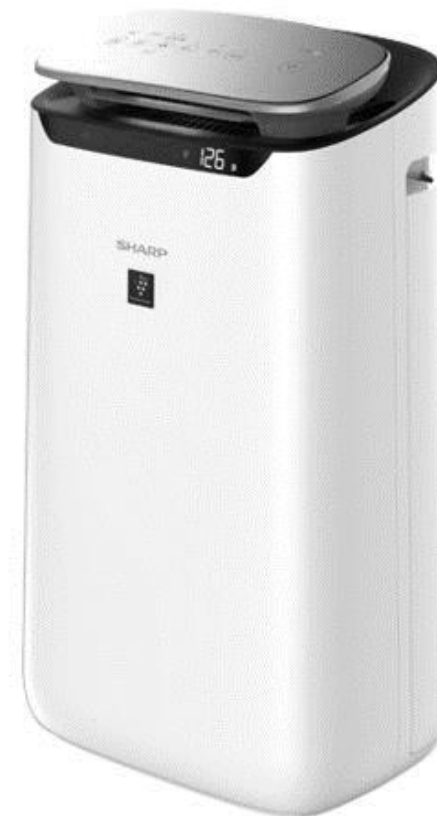
4 Automated Smart Detection Systems



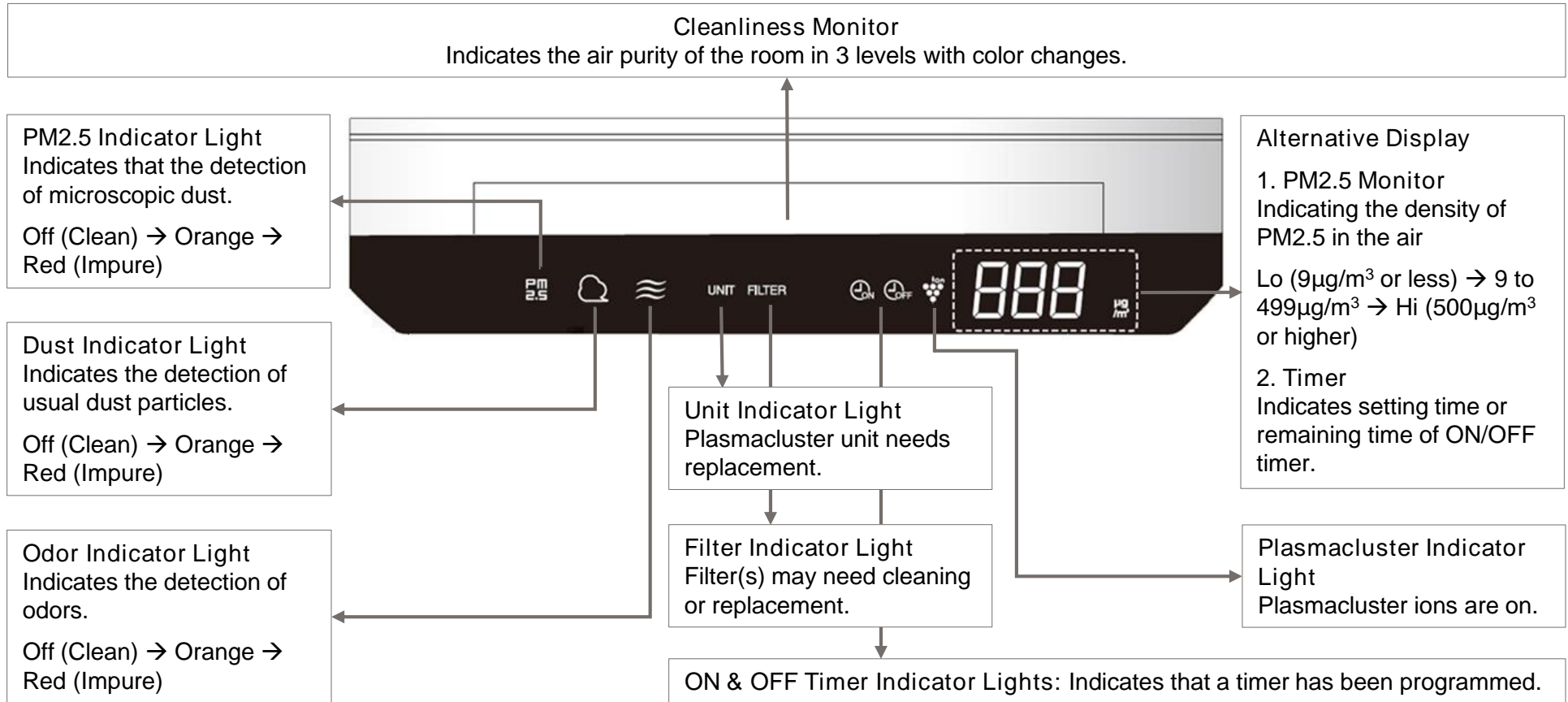
Air purifying area (HEPA): 62m²

Plasmacluster coverage: 35m²

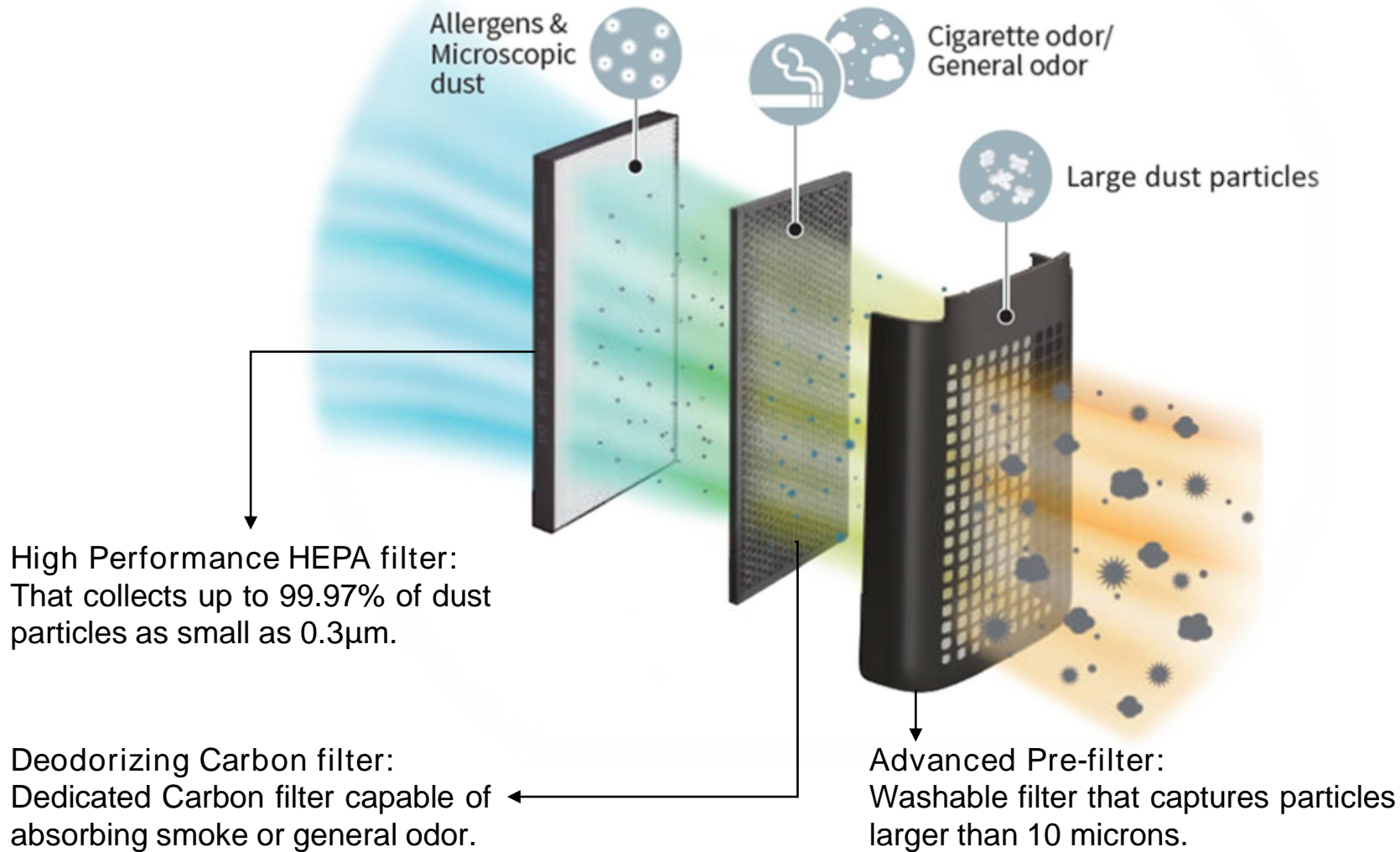
- High-density Plasmacluster 25,000 ions/cm³:
 - Ensures the optimum protection for healthcare facilities.
- PM2.5, Usual dust & Odor sensors:
 - Protection against environmental contaminants.
- Light sensor:
 - Plasmacluster FX-J80 unit adjusts both the fan speed and the front light intensity based on the room light as an indicator for the presence of human activity or the need to quite down and sleep.
- Automatic mode:
 - Combines all the 4 detection systems to give the user(s) the best experience that can be.



Interactive Information Screen



Optimum 3 Layers Filtration



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Model Number		FX-J80A-W
Ion Technology		Plasmacluster Ion
Ions density		25,000 Ions/cm ³
Installation		Floor standing
Remote control		--
Recommended area	Air purifying	62 m ²
	Ionizer	35 m ²
Filter type	Dust collection	HEPA
	Deodorization	Active Carbon
	Pre-filter	Washable Fine-Meshed PM10 filter
Filter life	Dust collection	Up to 10 years
	Deodorizing filter	Up to 10 years
Sensor	Odor	Yes
	Dust	Yes
	PM 2.5	Yes
	Temperature	Yes
	Light	Yes
Operation modes		Max / Med / Low / Sleep
Other Special program mode		Auto / Ion Shower
Timer		Yes (on / off): 1 to 12 hours (1, 2, 3...12)
Auto restart		Yes
Child lock		Yes
Air clean sign indicator		Yes (3 steps) & Digital for PM2.5
Filter change/clean indicator		Yes
Light control		Yes
Airflow (Full/Max / Med / Low) (m ³ /hour)		480 / 288 / 60
Noise level (Full/Max / Med / Low) (dB)		47 / 45 / 15
Voltage/frequency (V, Hz)		220, 60
Power input (W) (Full/Max / Med / Low)		48 / 28 / 4
Standby power (W)		1.3
Inverter operation		Yes
Power cord length (m)		2
		3 Pin
Dimensions (W x H x D) (mm)		416 x 728 x 291
Net weight (kg)		10.6