

SHARP

KC-D60EU | KC-D50-EU | KCD40EU
Air Purifiers with Humidifying Function

**JAPANESE TECHNOLOGY
KC-D60EU CREATES
A HEALTHY LIFE**



www.sharphomeappliances.com

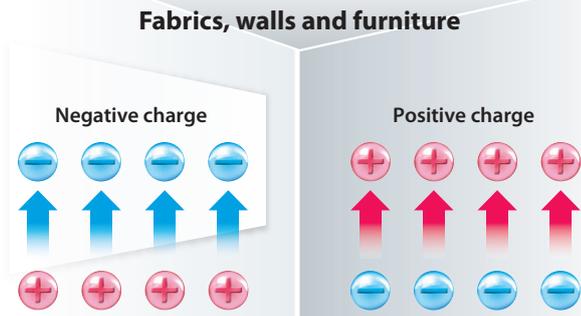
For Life

Combination of Plasmacluster Technology and Th

1.REMOVE Plasmacluster Ions Reduce Static Electricity

Airborne microbes and dust particles charged with static electricity easily cling to surfaces such as curtains, walls, and furniture. Positive and negative Plasmacluster ions dispersed into the air reduce both positive and negative static electricity.

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

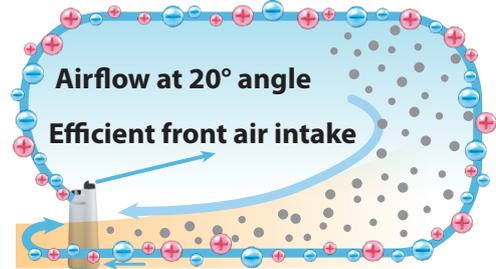


The positive and negative ions of Plasmacluster reduce both positive and negative static electricity.

2.COLLECT Powerful Air Suction and Unique Airflow Circulation Quickly and Efficiently Collect Dust and Other Particles

Sharp's efficient airflow and circulation system powerfully and quickly draws in airborne dust and other particles in the room while the Plasmacluster ions reduce the static electricity of particles clinging to walls and fabrics.

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



Aerodynamic structure can quickly collect dust and other particles from low parts of a room.

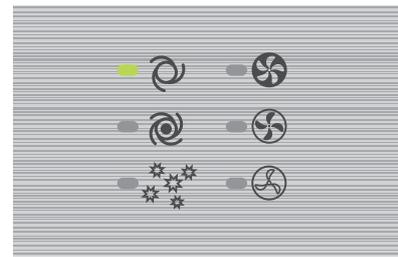
High-Density Plasmacluster Ion Shower Powerfully Cleans the Room Air

With just a press of the shower operation button, the KC-D60EU / KC-D50EU / KC-D40EU starts high-density Plasmacluster shower with a stronger airflow for 60 minutes. A high density of Plasmacluster ions is dispersed into the entire room, which reduces static electricity, making it easy to capture dust and other particles clinging to curtains and walls.



Advanced Auto Mode Prevents Mold Growth in Humid Conditions

In the rainy season, the increased humidity levels allow rapid mold growth. When the humidity is above 70%, the Advanced Auto Mode of the KC-D60EU / KC-D50EU / KC-D40EU delivers a stronger airflow than in the Auto Mode. The dispersed Plasmacluster ions remove airborne mold, as well as reducing the growth of clinging mold on surfaces.

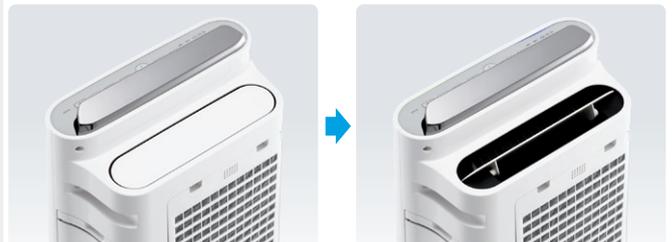


Auto Louver for Clean and Efficient Air Circulation

The new KC-D60EU / KC-D50EU / KC-D40EU is equipped with an Auto Louver. When the purifier turns on, the louver opens automatically, and when the purifier turns off, the louver closes to prevent dust from getting inside.

Auto Louver OFF

Auto Louver ON



Three-Step Dust Collection System

3. CAPTURE

High-Performance Filters Capture Airborne Dust and Odour Particles

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

Dust-Collecting HEPA Filter



No need for replacement for 10 years*

* When smoking five cigarettes a day

Removal of Odors

Deodorizing Filter

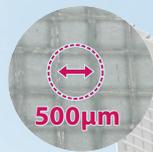


No need for replacement for 10 years**

Easy maintenance by simply wiping.

** Deodorizing performance depends on the room conditions.

Capture Microscopic Dust Particles As Small As 500 Microns

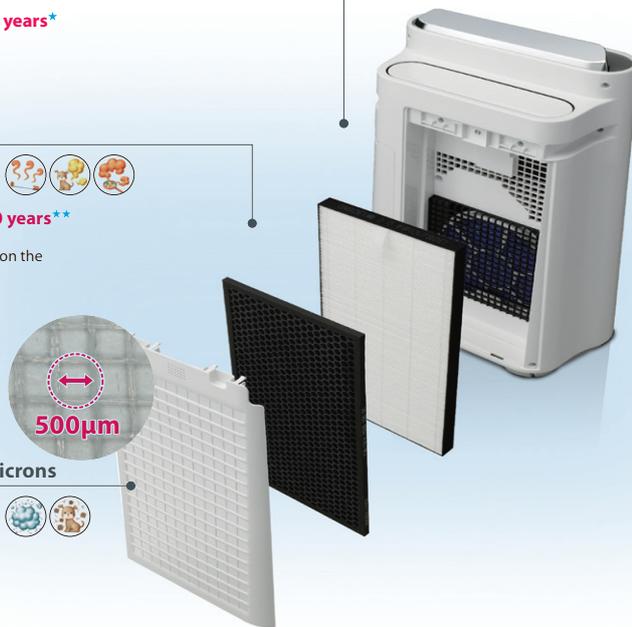


Micron-Mesh Pre-filter on Rear Panel



No need for replacement

Easy maintenance by simply wiping the filter without detaching it.



Effectiveness of Plasmacluster Ions



High-Density 7000*

* The number in this technology mark indicates the approximate number of ions supplied into 1 m² of air, which is measured around the center of a room (at a height of 1.2 m above the floor) with the applicable floor area for High-density Plasmacluster 7000 at the maximum or medium airflow mode when an air purifier with humidifying or an air purifier using a high-density Plasmacluster ion-generating device is placed close to a wall.

- Removal of Airborne Mold*¹
- Suppressing the Activity of Airborne Viruses*²
- Removal of Airborne Dust Mite Allergens*³
- Removal of Clinging Odours*⁴
- Reduction of Static Electricity*⁵

• These test results are for a Plasmacluster ion generator in a test space of approx. 25 m³ to 41 m³. Equivalention densities mean that the effectiveness is the same.
 • The effectiveness of Plasmacluster ions depends on the usage conditions (e.g., temperature, humidity, room area, position of the ion-generating device, and use of air conditioner or ventilation) and the usage method (e.g., Plasmacluster ion dispersion direction, operation mode, and operation time).

*¹ Effectiveness in a test space of 31 m³ after 195 min. of use.

*² Effectiveness in a closed test space of 25 m³ after 18 min. of use.

*³ Effectiveness in a test space of 31 m³ after four weeks of use (one day: 24 hours).

*⁴ Effectiveness in a test space of 41 m³ after 80 min. of use. The effectiveness depends on the odour type, odour intensity, and material of object measured.

*⁵ Effectiveness in a test space of 41 m³ after 10 min. of use. Notes: These figures are approximate.

Rotating Humidifying Structure Creates Clean Humidity Conditions

The rotating humidifying filter automatically starts humidifying when the room becomes dry, and stops when the room is too humid.

No need of replacement for 10 years*⁶



When humidifying is not performed, the filter disc rotation stops, remains free of water immersion and dries with ventilation, thereby preventing mold growth.

Simple Operation for Easy Everyday Use

Casters with Stoppers

Easily move the unit to the left and right by rolling it on casters. To secure the unit, lock the casters with stoppers.



Stopper unlocked



Stopper locked



*⁶ Time for the humidifying performance to decrease by 50% relative to the rated humidifying performance assuming eight hours of operation per day. The filter service life depends on the room conditions and usage. Periodic cleaning is required.

*⁷ Tested by the Boken Quality Evaluation Institute. Test method: Test according to the JIS Z2801 standard. Anti-microbial method: Infusing filter with anti-bacterial agents. Test result: 99% removed.

*⁸ Tested by the Boken Quality Evaluation Institute. Test method: Mold resistance test according to the JIS Z2911 standard. Mold prevention method: Infusing filter with anti-mold agents. Test result: No mold growth.

Water Tank Enables Easy Cleaning and Convenient Water Supply

Handle for easy carrying in one hand



Self-standing tank prevents tipping over when refilling



Large-diameter cap enables tank cleaning by hand.



Handle becomes a stand when up-side-down.

On/Off Timer for Convenient Use

The On timer can be set to up to 14 hours in increments of 2 hours, and the Off timer can be set to 1, 2, 4 and 8 hours.

Monitors for Dust and Odour*, Humidity, and Humidifying Indicate the Conditions of the Room Air

Dust / Odour* monitor

Clean ↑
↓ Impure

The dust / odour* monitor detects dust in the room and indicates the intensity in 5 levels with different colors.
* Only the KC-D60EU / KC-D50EU is equipped with an odour sensor.

Humidity monitor

6-31-60-99

Indicated from 6% to 99% in units of 1%

Humidifying monitor

Humidifying (3 green drops)
Humidifying stopped (3 grey drops)
Water being supplied (indicator blinking) (3 red drops)

Specifications



KC-D60EU-W (white)
Recommended Room Size: 48 m²*1
(34 m² for humidifying*2)



KC-D50EU-W (white)
Recommended Room Size: 38 m²*1
(27 m² for humidifying*2)



KC-D40TA-W (white)
Recommended Room Size 26: m²*1
(21 m² for humidifying*2)

Models		KC-D60EU	KC-D50EU	KC-D40EU
Color		- W (white)	- W (white)	- W (white), - B (black)
Humidifying	Humidifying system	Natural vaporization	Natural vaporization	Natural vaporization
	Tank capacity	3.0 L	2.5 L	2.5 L
	Humidifying capacity*2	660 mL/hour	600 mL/hour	440 mL/hour
Recommended area	Air purifying*1	48 m ²	38 m ²	26 m ²
	Humidifying*2	30 m ²	27 m ²	21 m ²
Recommended area for high-density Plasmacluster ions*3		35 m ²	28 m ²	21 m ²
Operation modes		3 (max. / med. / low) auto and pollen, and advanced auto mode	3 (max. / med. / low) auto and pollen, and advanced auto mode	3 (max. / med. / low) auto and pollen, and advanced auto mode
Voltage/frequency (V, Hz)		220, 50	220, 50	220, 50
Power input (W) (max. / med. / low)	Without humidifying	80 / 24 / 5.5	54 / 17 / 5	25 / 12 / 5
	With humidifying	70 / 26 / 7	49 / 20 / 7	19 / 14 / 7
Standby power (W)		0.9	0.9	0.9
Inverter operation		Yes	Yes	Yes
Airflow (max. / med. / low) (m ³ /hour)	Without humidifying	396 / 240 / 90	306 / 186 / 60	216 / 144 / 60
	With humidifying	366 / 240 / 90	288 / 186 / 60	180 / 144 / 60
Noise level (max. / med. / low) (dB(A))	Without humidifying	55 / 45 / 25	55 / 43 / 23	47 / 37 / 23
	With humidifying	54 / 45 / 25	54 / 43 / 23	43 / 37 / 23
Special program mode		High-density Plasmacluster ion shower*4, Auto restart*5, Child lock*6, On/Off timer	High-density Plasmacluster ion shower*4, Auto restart*5, Child lock*6, On/Off timer	High-density Plasmacluster ion shower*4, Auto restart*5, Child lock*6, On/Off timer
Filter type	Dust collection	HEPA*7	HEPA*7	HEPA*7
	Deodorization	Yes	Yes	Yes
	Pre-filter	Yes	Yes	Yes
	Humidifying	Yes	Yes	Yes
Filter life	Dust collection	Up to 10 years*8	Up to 10 years*8	Up to 10 years*8
	Deodorizing filter	Up to 10 years*8	Up to 10 years*8	Up to 10 years*8
	Humidifying filter	Up to 10 years	Up to 10 years	Up to 10 years
Sensor	Odor	Yes	Yes	Yes
	Dust	Yes	Yes	Yes
	Temperature and humidity	Yes	Yes	Yes
Clean sign indicator	Dust and odor	Yes (5 steps)	Yes (5 steps)	Yes (5 steps)
Light control button		Yes (bright / dim / off)	Yes (bright / dim / off)	Yes (bright / dim / off)
Power cord length (m)		approx. 2.0	approx. 2.0	approx. 2.0
Plug type		TIS	TIS	TIS
Dimensions (W x H x D) (mm)		420 x 637 x 242	399 x 615 x 230	399 x 615 x 230
Net weight (kg)		approx. 8.6	approx. 7.9	approx. 7.9
Replacement filter	HEPA filter	FZ-D60HFE	FZ-D40HFE	FZ-D40HFE
	Deodorizing filter	FZ-D60DFE	FZ-D40DFE	FZ-D40DFE
	Humidifying filter	FZ-A60MFE	FZ-A60MFE	FZ-A60MFE

Plasmacluster ion purification	Airborne microbes	Airborne mold	Airborne microbes	Airborne viruses	Dust mite remain allergens	Dust mite feces allergens	Tree pollen	Ammonia odor		
	Clinging odors	Cigarette odor	Body odor							
Clean sign indicator	Capture and reduction of growth	Airborne microbes	Viruses	Tree pollen	Dust mite remains	Dust mite feces				
	Deodorizing	Cigarette Pet odor odor	Pet odor	Body odor	Mold odor	Ammonia odor	Cooking odor	Kitchen garbage odor	Toilet odor	VOC ¹⁰
	Capture	Airborne mold	Plant pollen	Tree pollen	Pet dander	Pet hair	Dust	Cigarette Dust smoke	Mite dust	Diesel exhaust

*1 Recommended room size: Measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association. *2 Measurement conditions: 20°C, 30% humidity (JEM1426)

*3 Size of a room in which approximately 7,000 ions can be measured per 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 operated at the maximum setting. *4 The ion density for the first 60 minutes is about 1.5 times higher than that of the PCI 7000, which has an ion density of 7,000 ions/cm³ at the medium fan speed. *5 The air purifier automatically resumes operation when power returns, even after a sudden power interruption, such as due to a circuit breaker. *6 By pressing the Child Lock button for more than three seconds, the operation buttons are locked to help prevent inadvertent operation by children or pets. *7 HEPA is defined by the Japan Electrical Manufacturers' Association Standard, JEM1467. The filter removes more than 99.97% of 0.3-micron dust particles. *8 At a smoking rate of five cigarettes per day. *9 The efficacy with filters *10 Volatile organic compound (VOC). The effectiveness of reducing three volatile organic compounds (formaldehyde, toluene, and ethyl acetate) was tested by Sharp.

- 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.

• Design and specifications are current as of May 2017, but are subject to change without prior notice. • Actual colors may differ slightly from the colors shown in this brochure.