

# SHARP®



Plasmacluster is a trademark of Sharp Corporation.



**Free standing type**

# FU-W28J

## AIR PURIFIER OPERATION MANUAL

ENGLISH

## Please read before operating your new Air Purifier

The air purifier draws in room air via its air intake, letting the air pass through an Active Carbon Filter (deodorisation filter) and a HEPA Filter (dust collection filter) inside the unit, then discharges the air from its air outlet. The air purifier unit repeats this process continuously when its internal fan is working.

As air passes through the HEPA filter it removes 99.97% of dust particles (as small as 0.3 microns). The Active Carbon Filter gradually absorbs odour elements as they repeatedly pass through the filter.

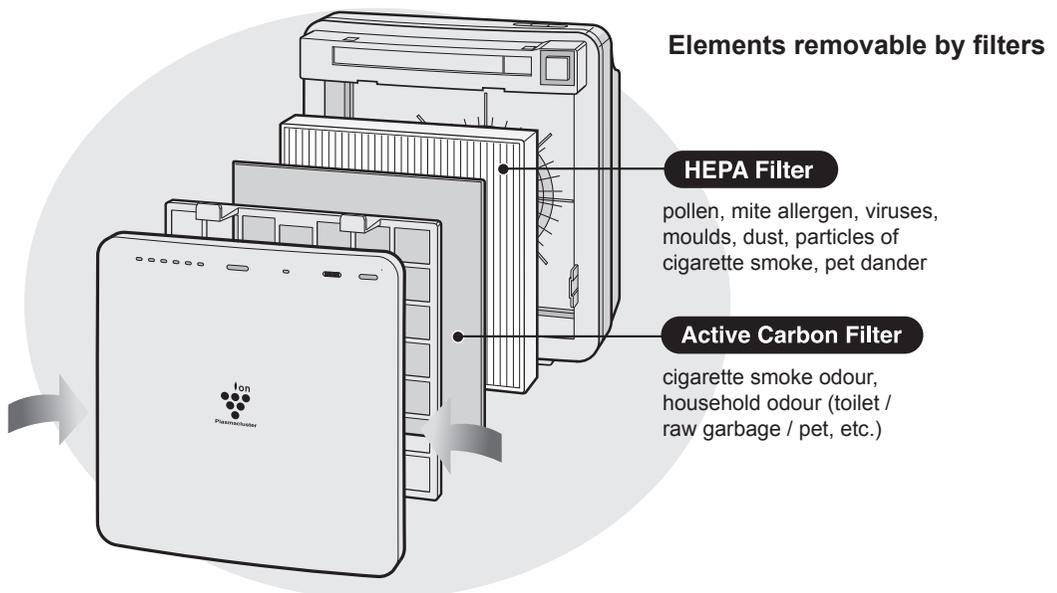
Some odour ingredients absorbed by the filters may become separated and may be discharged through the air outlet and result in additional odour. Depending on the usage environment, especially when the product is used in a condition significantly more severe than household use, this odour may become strong in a shorter period than expected.

If the odour persists the filters should be replaced.

In this case we recommend purchasing the optional replacement filter.

## NOTE

- The air purifier is designed to remove air-suspended dust and odour, but not harmful gases (for example, carbon monoxide contained in cigarette smoke). If the odour sources still exist, it cannot completely remove the odour (for example, odours from construction materials and pet odours). It is suggested to open the window a bit when you are smoking in order to facilitate ventilation.



## FEATURES

### "Plasmacluster" technology

Plasmacluster technology uses plasma discharge to produce and release the same positive and negative ions as those found in nature ("Plasmacluster ions").

This is a unique air cleaning technology of the SHARP CORPORATION for breaking down and inactivating such potential allergens as the faecal matter or corpses of aerial mites\*<sup>1</sup>, viruses\*<sup>2</sup> and mould and bacteria\*<sup>3</sup> suspended in the air, and has been substantiated by third-party organisations both in Japan and overseas.

When there is a high density of Plasmacluster ions in the air, the smell of cigarette smoke trapped in curtains or sofas is removed in about 80 minutes\*<sup>4</sup>, and when clothing is hung in a place exposed to the direct air expelled from the unit generating Plasmacluster ions, the smell of sweat is reduced to a virtually imperceptible level in one night (about 6 hours).

\*1 Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan

Measurement of action on the potential allergens of aerial mites (in the area of 13m<sup>2</sup>).

\*2 Retroscreen Virology, Ltd., London, UK  
Measurement of ratio of viruses removal from the air in a 1m<sup>3</sup> box

\*3 Ishikawa Health Service Association, Japan

Measurement of aerial mould and bacteria in a 13m<sup>2</sup> lab using an air sampler.

\*4 Japan Spinners Inspecting Foundation, Japan

Evaluation of deodorising effect on odour-imbued fragments of cloth

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Thank you for purchasing the SHARP Air Purifier. Please read this manual carefully for the correct usage information. Before using this product, be sure to read the section: "Important Safety Instructions."

After reading this manual, retain it in a convenient location for future reference.

# IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions should be followed, including the following:

**WARNING** - To reduce the risk of electrical shock, fire or injury to persons:

- Read all instructions before using the unit.
- Use only a 220-240 volt outlet.
- **Do not use the unit if the power cord or plug is damaged or the connection to the wall outlet is loosened.**
- Periodically remove dust from the power plug.
- **Do not insert fingers or foreign objects into the air intake or outlet.**
- **When removing the power plug, always hold the plug and never pull the cord.**

Electrical shock and/or fire from short circuit may occur as a result.

- **Do not remove the plug when your hands are wet.**
- **Do not use this unit near gas appliances or fireplaces.**
- **Remove the power plug from the wall outlet before cleaning the unit and when not using the unit.**

Electrical shock from bad insulation and/or fire from short circuit may occur as a result.

- **If the power cord is damaged, it must be replaced by the manufacturer, its service agent, Sharp Approved Service Centre or similarly qualified person in order to avoid a hazard.**
- Do not operate when using aerosol insecticides or in rooms where there is oily residue, incense, sparks from lit cigarettes, chemical fumes in the air or in very high humidity conditions, such as a bathroom.
- Be cautious when cleaning the unit. Corrosive cleansers may damage the exterior.
- Only Sharp Approved Service Centres should service this air purifier. Contact your nearest Approved Service Centre for any problems, adjustments, or repairs.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure they do not play with the appliance.

**NOTE** - Radio or TV Interference

If this air purifier should cause interference to radio or television reception, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the unit and radio/TV receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# IMPORTANT SAFETY INSTRUCTIONS

## CAUTIONS CONCERNING OPERATION

- Do not block the air intake and/or outlet.
- Do not use the unit near or on hot objects, such as stoves or heaters or where it may come into contact with steam.
- Do not lay the unit down when turned on.
- **Always hold the handle on the back of the unit when moving it.**  
Holding the front panel when carrying may cause it to detach, thus dropping the unit and resulting in personal injury.
- **Do not operate the unit without the filter.**
- **Do not wash and reuse HEPA filter .**  
It not only does not improve filter performance, it may cause electric shock or malfunction.
- **Clean the exterior with a soft cloth only.**  
Otherwise the unit surface may get damaged or cracked.  
In addition, the sensors may malfunction as a result.

## INSTALLATION GUIDELINES

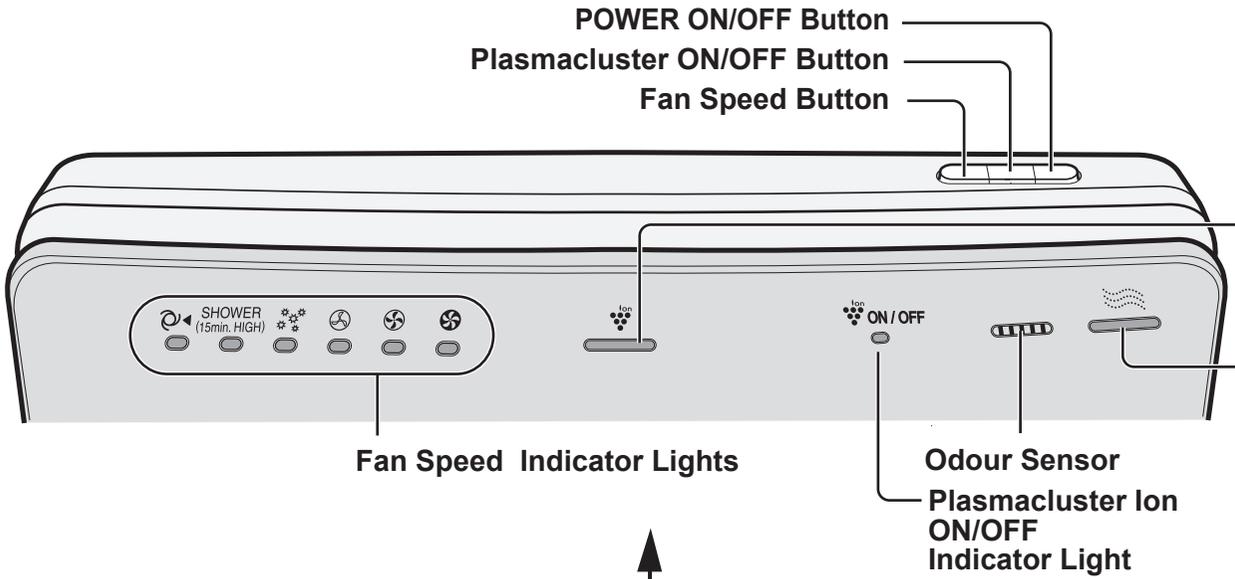
- **During operation, please place the unit at least 2 m away from equipment which may be subject to electrical waves such as televisions, radios or wave clocks.**
- **Avoid a location where the sensor is exposed to direct wind.**  
The unit may not operate properly.
- **Avoid locations where curtains, etc., come into contact with the air intake or outlet.**  
Curtains, etc., may become dirty or a unitl malfunction may occur.
- **Avoid locations where the unit is exposed to condensation, due to drastic temperature changes.**  
(Use under appropriate conditions between 0 and 35°C in the room.)
- **Place on a stable surface with sufficient air circulation.**  
When placing the unit on a thick carpeted area, it may cause the unit to vibrate slightly.
- **Do not install when there is a possibility of soot, such as in a kitchen, etc.**  
The unit surface may crack or the sensor may malfunction as a result.
- **Leave about 60cm of space from the wall.**  
The wall behind the air outlet may become dirty as time passes. When using the unit for an extended period of time in the same location, use a vinyl sheet, etc., to prevent the wall from becoming dirty. In addition, periodically clean the wall.

## FILTER GUIDELINES

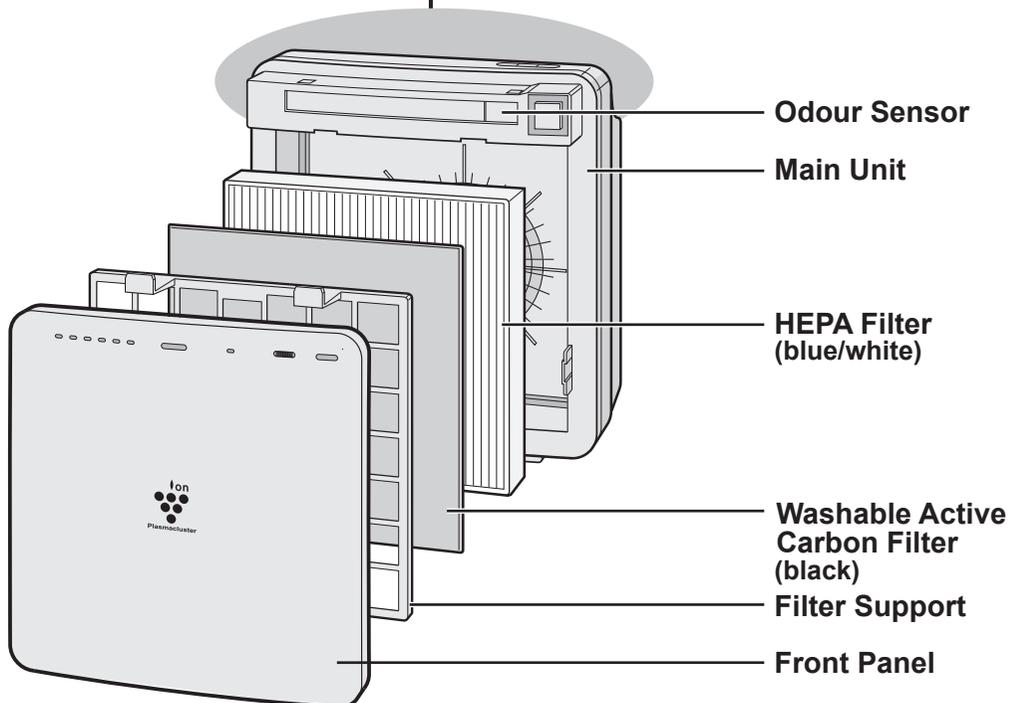
- Follow the instructions in this manual for correct care and maintenance of the filters.  
Use only filters designed for this product.

# PART NAMES

## MAIN UNIT DISPLAY



## ILLUSTRATIVE DIAGRAM

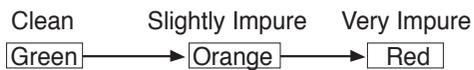


**Plasmacluster Indicator Light(blue)**

Blue light : Plasmacluster ON  
Light off : Plasmacluster OFF

**CLEAN - SIGN Light**

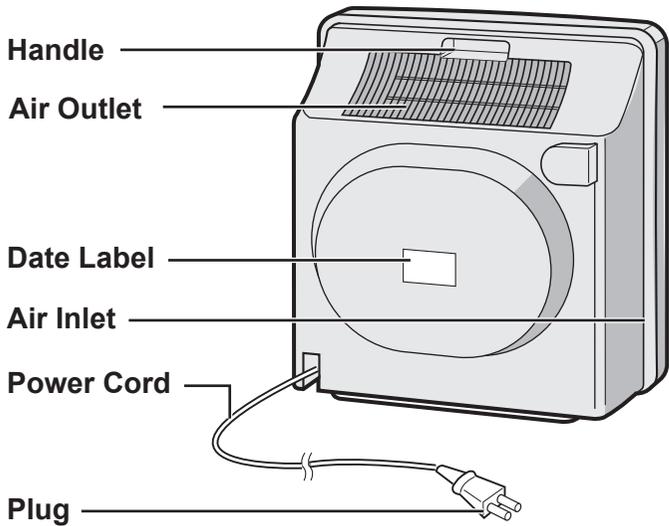
The colour changes according to the air condition.



**BACK**

**INCLUDED**

- Operation manual



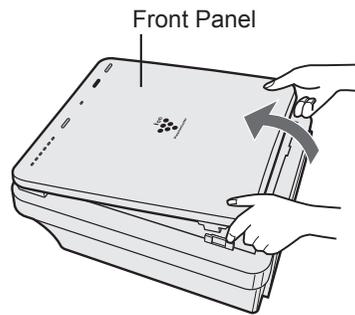
(Shape of plug depends on country).

## FILTER INSTALLATION

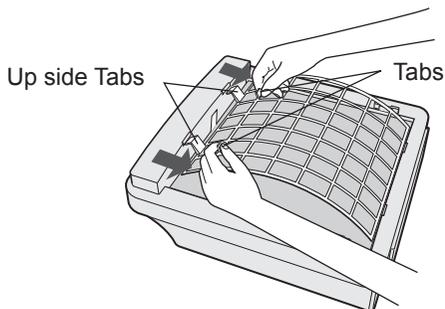
To maintain the quality of the filters, they are installed in the main unit and packed in plastic bags. Be sure to remove the filters from the plastic bags before using the unit.

### 1 Remove the filters

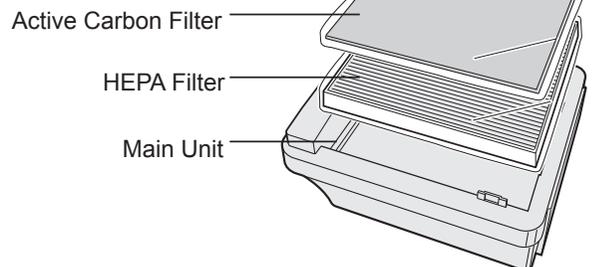
**1 Remove the Front Panel.**  
Pull the bottom of the Front Panel.



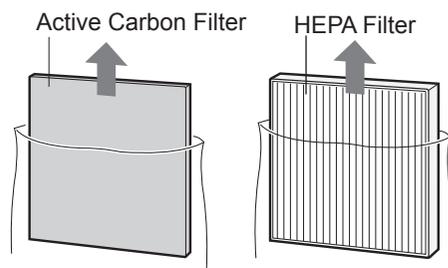
**2 Remove the Filter Support.**  
Pinch the two tabs and lift to remove.



**3 Remove the Active Carbon Filter and HEPA Filter.**



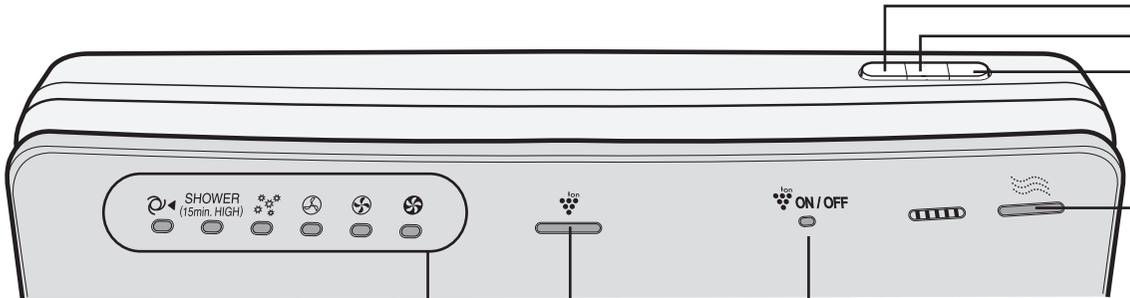
**4 Remove the Active Carbon Filter and HEPA Filter from the plastic bags.**



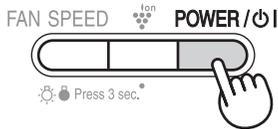


# OPERATION

## MAIN UNIT OPERATION

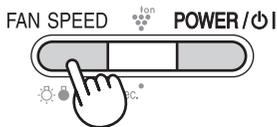


**Fan Speed Indicator Lights**  
**Plasmacluster Indicator Light**  
**Plasmacluster ON/OFF Indicator Light**



### Power ON/OFF Button

- Press to start operation (short beep) and stop operation (long beep)
- Plasmacluster Indicator Light and Fan Speed Indicator Light turn on/off.
- Unless the power cord has been unplugged, the operation starts in the previous mode it was operated in.



### Fan Speed Button

- The operation mode can be switched as below.

#### AUTO operation

The fan speed is automatically switched (MEDIUM, LOW) depending on the amount of impurities in the air. The sensors detect the impurities for efficient air purification.

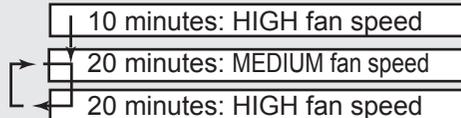
#### ION SHOWER operation

By continuously discharging a strong airflow for 15 minutes the unit effectively removes airborne dust, pollen, mould and allergens from the air as they are drawn through the filter system.

- When the operation is finished, the unit will return to the AUTO operation.

#### POLLEN mode operation

The unit will operate at HIGH\* fan speed for 10 minutes, then will alternate between MEDIUM and HIGH\* for 20 minutes.



#### MAX operation

The unit will operate at a fan speed of MAX.

#### MEDIUM operation

The unit will operate at a fan speed of MEDIUM.

#### SILENT operation

The unit will operate quietly using minimal air intake.

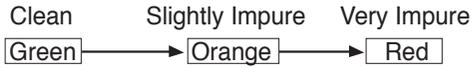
\* HIGH fan speed is an intermediate speed between MEDIUM and MAX.

\* LOW fan speed is an intermediate speed between SILENT and MEDIUM.

- Fan Speed Button
- Plasmacluster ON/OFF Button
- POWER ON/OFF Button

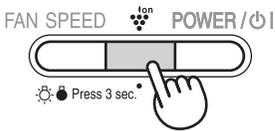
### CLEAN - SIGN Light

The colour changes according to the air condition.



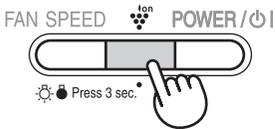
#### ABOUT THE CLEAN-SIGN

- The condition of the CLEAN-SIGN depends on the room air condition detected by the Odour Sensor when the plug is inserted into the wall outlet.
- It is possible to have a green CLEAN SIGN if there are impurities in the air when the product is first turned on. After a while, however, the base impurity rate will be adjusted to detect room air condition correctly.



### Plasmacluster ON/OFF Button

Press the Plasmacluster ON/OFF Button to turn Plasmacluster Ion Mode ON and OFF. When Plasmacluster is ON, both the Indicator Light and Plasmacluster Indicator Light will turn on (blue).



### LIGHTS ON/OFF Button

(Press the Plasmacluster ON/OFF Button for 3 seconds).

Switches the Plasmacluster Indicator Light and CLEAN-SIGN Light either ON or OFF.

## ADJUSTMENT OF SENSOR DETECTION SENSITIVITY

Set to “low” if CLEAN-SIGN Light is constantly red to reduce sensitivity, and set to “high” if CLEAN-SIGN Light is constantly green to increase sensitivity.

### 1 With the unit OFF, press the Fan Speed Button for 3 seconds.

The Fan Speed Indicator Lights will display the currently set sensor sensitivity level. The factory setting is Standard, indicated by the MED light.

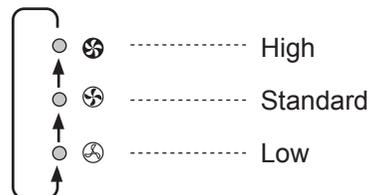
### 2 Press the Fan Speed Button to set the desired sensor sensitivity.

Refer to the diagram on the right to select the desired sensor sensitivity level.

### 3 Press the Power ON/OFF Button.

Note that if the Power ON/OFF Button is not pushed within 8 seconds of adjusting sensor sensitivity, the setting will be saved automatically. The sensor sensitivity setting will be saved even if the unit is unplugged.

Fan Speed Indicator Light	Sensor Detection sensitivity
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# CARE AND MAINTENANCE

To maintain optimum performance of this air purifier, please clean the unit including the sensor and filters periodically.  
When cleaning the unit, be sure to unplug the power cord, and never handle the plug with wet hands. Electrical shock and/or bodily injury may occur as a result.

## MAIN UNIT

**Care Cycle** 1 month

To prevent dirt or stains on the main unit, clean as often as necessary. If stains are allowed to remain, they may become hard to clean.

### **Wipe with a dry, soft cloth**

For stubborn stains or dirt, use a soft cloth dampened with warm water.

### **Do not use volatile fluids**

Benzine, paint thinner, polishing powder, etc., may damage the surface.

### **Do not use detergents**

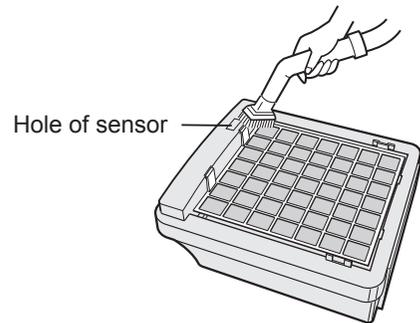
Detergent ingredients may damage the unit.

### **Keep the unit away from water**

## ODOUR SENSOR

**Care Cycle** 2 months

The sensitivity of the sensor will become unstable if the odour sensor is dirty or blocked. Remove dust from the surface of the sensor opening using a vacuum cleaner.



# WASHABLE ACTIVE CARBON FILTER CARE

**HAND WASH ONLY!  
DO NOT TUMBLE DRY!**

## Care Cycle

We recommend replacing the active carbon filter every six months.  
Clean the filter as often as necessary when odour persists.

- 1** Fill a large container with lukewarm water, add a mild kitchen detergent and stir.

Dilute as indicated on the detergent container.



- 2** Allow the filter to soak approximately 10 minutes.



- 3** Rinse thoroughly with clean water.

### CAUTION

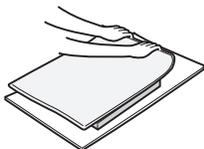
If rinsing in a container, be sure to rinse 3 to 4 times so that the odour is rinsed thoroughly from the filter.



- 4** Remove excess water. The filter will be saturated with water after rinsing. To decrease drying time, wrap the filter in an old thick towel so that excess water can be removed.

### CAUTION

Some carbon may adhere to the towel, if you towel-dry the filter, but it is harmless.



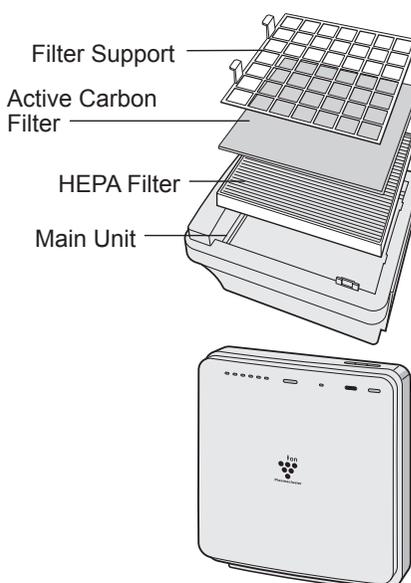
- 5** Dry filter completely in a well ventilated area. If possible, dry outdoors.

### CAUTION

- Avoid drying filter outdoors during inclement weather (e.g. rain or cold temperatures).
- Do not allow filter to freeze.
- If filter is dried indoors, take precautions, such as placing towels, etc under the filter to prevent water damage to the floor.

- 6** Reinstall the Filters.

Reinstall the filters as shown on Page E-6,7. Dry filter completely before replacing to prevent odours. Do not operate unit without all filters properly installed.



# CARE AND MAINTENANCE

## FILTER REPLACEMENT GUIDELINES

Depending on the usage environment, air outlet odour may become strong after several months.

**If dust or odour cannot be removed easily, replace the filters.**

(Refer to “Please read before operating your new Air Purifier”)

### Guide for filter replacement timing

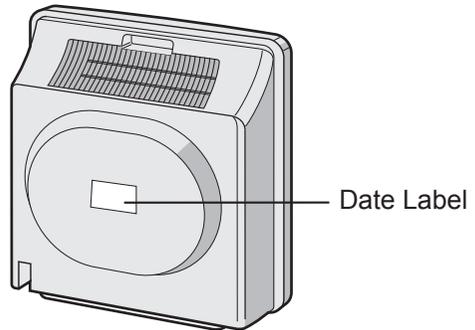
- The following filter life and replacement period is based on the condition of smoking 10 cigarettes per day and the dust collection/deodorisation power is reduced by half compared with that of new filters.

We recommend to replace the filters more frequently if the product is used in a condition significantly more severe than normal household use.

•HEPA Filter	About 2 years after opening
•Active Carbon Filter	About 2 years after opening

## REPLACING THE FILTERS

- 1** See page E-6,7 for directions on how to install the filters when replacing.
- 2** Fill in the usage start date of the filters on the Date Label.



### Replacement Filters

Model: FZ-W28SFJ

- HEPA Filter : 1 unit
- Active Carbon Filter: 1 unit

Please consult your dealer for purchase of replacement filters.

### Disposal of Filters

Please dispose of replaced filters according to the local disposal laws and regulations.

HEPA Filter materials:

- Filter: Polypropylene
- Frame: Polyester

Active Carbon Filter Materials:

- Deodoriser: Activated charcoal
- Nonwoven fabric : Polyester

# TROUBLESHOOTING

Before calling for repair, please review the list below, since the problem may not be a unit malfunction.

SYMPTOM	REMEDY (not a malfunction)
<b>Odours and smoke are not removed.</b>	<ul style="list-style-type: none"> <li>• Clean or replace the filters if they appear to be heavily soiled. (Refer to E-11,E-12)</li> </ul>
<b>The CLEAN-SIGN Light shows green even when the air is impure.</b>	<ul style="list-style-type: none"> <li>• The air could be impure at the time the unit was plugged in. (Refer to E-9) Pull out the plug from the electrical outlet, and insert the plug one minute later.</li> </ul>
<b>The CLEAN-SIGN Light shows orange or red even when the air is clean.</b>	<ul style="list-style-type: none"> <li>• The sensitivity of the sensor becomes unstable when the opening of the odour sensor is dirty or is clogged. Clean the dust around the sensor opening using a vacuum cleaner. (Refer to E-10)</li> </ul>
<b>A clicking or ticking sound is heard from the unit.</b>	<ul style="list-style-type: none"> <li>• Clicking or ticking sounds may be audible when the unit is generating ions.</li> </ul>
<b>The discharged air has an aroma or odour.</b>	<ul style="list-style-type: none"> <li>• Check to see if the filters are heavily soiled. Replace the filters.</li> <li>• Plasmacluster Air Purifiers emit small traces of ozone which may produce an odour. These ozone emissions are well below safety levels.</li> </ul>
<b>The unit does not operate when cigarette smoke is in the air.</b>	<ul style="list-style-type: none"> <li>• Is the unit installed in a location that is difficult for the sensor to detect cigarette smoke?</li> <li>• Is the odour sensor opening blocked or clogged? (In this case, clean the opening.) (Refer to E-10)</li> </ul>
<b>The Plasmacluster Indicator Light or the CLEAN-SIGN Light will not activate.</b>	<ul style="list-style-type: none"> <li>• Check to see if the Lights OFF Mode is selected. If so, then press the Plasmacluster ON/OFF Button for 3 seconds to activate the indicator lights. (Refer to E-9)</li> </ul>

ENGLISH

If you still require service, contact your SHARP approved service centre.

SHARP approved service centre locations can be found in the support area of our website:

Australia : <http://www.sharp.net.au>

New Zealand : <http://www.sharp.net.nz>

## ERROR DISPLAY

LAMP INDICATION	REMEDY
<b>The "SILENT" Fan Speed Indicator Light blinks.</b>	<p>Fan motor is disconnected or abnormal. Operation stops.</p> <ul style="list-style-type: none"> <li>• Pressing the POWER ON/OFF button will reset the error display, but if error occurs again, contact the shop where you purchased the unit.</li> </ul>

# SPECIFICATIONS

Model		FU-W28J		
Power supply		220-240V 50Hz		
Fan Speed Operation	Fan Speed Adjustment	MAX	MED	SILENT
	Rated Power	33W	12W	3.9W(3.5W) *1
	Fan Speed	168m <sup>3</sup> /hour	90m <sup>3</sup> /hour	30m <sup>3</sup> /hour
Recommended Room Size		~21m <sup>2</sup> *2		
High density Plasmacluster ion applicable floor surface		~10m <sup>2</sup> *3		
Cord Length		2.0m		
Dimensions		410mm(W)x158mm(D)x430mm(H)		
Weight		4.3kg		

\*1 Numbers in parentheses indicate the power consumption when the Plasmacluster indicator light and the CLEAN-SIGN light are off.

\*2 The applicable floor surface area is appropriate for operating the unit at maximum fan speed.  
 •Applicable floor surface area indicates the space where a certain amount of dust particles can be removed in 30 minutes.(JEM1467)

\*3 Size of a room in which approximately 7000 ions can be measured per cubic centimeter 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.

The class of the HEPA filter by EN1822 is H10.

## Standby Power

In order to operate the electrical circuits while the power plug is inserted in the wall outlet, this product consumes about 0.8W of standby power.  
 For energy conservation, unplug the power cord when the unit is not in use.

# Memo

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# Memo

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# Memo

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# SHARP

**SHARP CORPORATION OF AUSTRALIA PTY.LTD.**

**A. B. N. 40 003 039 405**

1 HUNTINGWOOD DRIVE, HUNTINGWOOD, N.S.W. 2148

P.O.BOX 6827, BLACKTOWN. N.S.W. 2148

**SHARP CORPORATION OF NEW ZEALAND LIMITED**

59 HUGO JOHNSTON DRIVE PENROSE, AUCKLAND

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