SHARP®

Humidifying Air Purifier

OPERATION MANUAL

Model

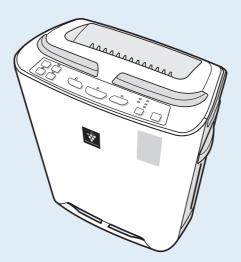
KC-AE60

KC-AE30

KC-AE20



High-Density 7000



Thanks for purchasing the SHARP Air Purifier.
Please read this manual carefully before operation.
Please keep this manual properly for future reference.



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SHARP SHARP CORPORATION

Features

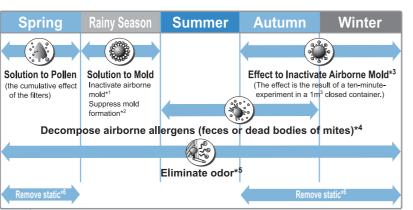
9

lon purifies the air in the room all around the year.



High-Density 7000

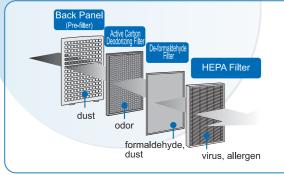
- Same as ions found in Nature
- Air purifying ability is explained*1-7
- Safety is confirmed*8



- ※1 Ishikawa Health Service Association, Japan
- The elimination rate is 99.0% within 195 minutes in a 13m³ area.
- ¾2 Japan Food Research Laboratories, Japan
- The breeding of molds on PVC plates gets controlled after five days in a 14 m² lab.
- X3 Retroscreen Virology Ltd., UK
- In a 1m³ box, the elimination rate of a virus is 99.0% within 10 minutes. ¾4 Gradute School of Advanced Sciences of Matter, Hiroshima University, Japan
- Inactivate the potential allergens of aerial mites in a 13m² living area.
- 35 Japan Spinners Insepecting Foundation, Japan
- After 80 minutes deodorization, the odor of smoke on the cloth is nearly imperceptible.
- ¾6 Sharp Corporation, Japan
- In a 1m³ box, the initial potential is weakened from 4.0kV to 1.0kV.
- %7 Professor Artmann, Aachen University of Applied Sciences, Germany (aerial bacteria and viruses)
 Gradute School of Advanced Sciences of Matter, Hiroshima University, Japan (aerial allergens)
- ※8 Mitsubishi Chemical Medience Corporation



Effective airflow collects
dust and odor quickly.
It inhales contaminants from
all sides and purifies by passing
through 4 types of filters.





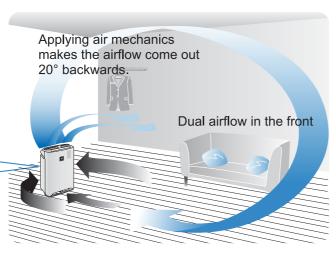
When the air in the room is not fresh,

Turbo mode will be turned on.

In 60 minutes, the density of Plasmacluste

In 60 minutes, the density of Plasmacluster Ion will be 1.5 times* and the indoor air will be purified quickly.

- (* 1.5 times: is compared to the density when the unit is set at "Auto" Mode, "High" Fan Speed in the purifying area of Plasmacluster Ion 7000)
- Plasmacluster air purifying technology can inactivate suspended viruses and other contaminants; it cannot create a completely sterile environment. Sharp does not guarantee its ability to prevent microbial infection.
- The effect of eliminating bacteria and purifying air will differ according to different room condition and operation method.





The purifying effect will be more significant if the unit is operated around the clock.

Frequently Asked Questions



cannot be seen.

Why steam or vapour cannot be seen during humidification?

When the Humidifying Filter is moisturized, humid air will be discharged from air outlet. Humidification is achieved without water-boiling, so steam or vapour



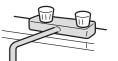


Will the moisturized air be very cold when it is discharged from the air outlet?

The moisturized air may absorb heat from the air when it is discharged, therefore air blowing out from the air outlet may be colder than the ambient temperature. Depending on room size, it is possible that user may feel cold. (For example, when ambient temperature is 20°C, the discharged air may be around 15°C.)



Is it necessary to use tap water?



It is recommended to use tap water as bacteria are hard to breed in chlorinated tap water. If mineral water, alkaline water, well water, filtrated water are used, mold and bacteria will breed, producing plenty of scale and odor.



Why the air coming out from the outlet is smelly?



If the unit is used in the condition that cigarette smoke or barbecue smell is very strong, or bacteria breed in the tray or water tank, the coming out air might be smelly. Please maintain filters, tray and water tank regularly. $\boxed{\text{E-}14\sim18}$



How often shall the unit be maintained?



Filter Name	Maintenance Cycle	Replacement Time	Replacement Filter Model
Humidifying Filter	once a month	every 5 years	FZ-Z380MF-HK
HEPA Filter	when the discharged air is smelly	every 10 years	FZ-WE61GH-HK FZ-CD30BH-HK FZ-CD20BH-HK
De-formaldehyde Filter	when the discharged air is smelly	every 2 years	FZ-C151VFS-HK FZ-C101VFS-HK FZ-C71VFS-HK
Active Carbon Deodorizing Filter	when the discharged air is smelly	every 10 years	FZ-BD60ZD-HK FZ-BD30ZD-HK FZ-BD20ZD-HK

(Instruction of maintenance and filter replacement is shown on E-14~18) and E-20.

Please contact your dealer or Sharp Authorized Service Center if you

Please contact your dealer or Sharp Authorized Service Center if you want to purchase filters for replacement.

Precautions

When using electrical appliances, basic safety precautions should be followed as below.

Warning—In order to reduce the risk of electric shock, fire or injury:

- Please read all the instructions in the manual before operating the unit.
- Only use a 220 volt outlet with a polarized receptacle.
- Do not operate the unit if the power cord is damaged or the connection to the wall outlet is loosened.
- Remove dust from the power plug regularly.
- · Do not insert fingers or foreign objects into the air intake or air outlet of the unit.
- Please hold the plug firmly instead of pulling the power cord when unplugging the unit. Otherwise, electric shock, fire or short circuit may occur.
- Do not remove the power plug when your hands are wet.
- · Do not operate the unit near gas appliances or fireplaces.
- Please remove the power plug from the wall outlet before cleaning the unit or when the unit will not be used for a period.

Otherwise, bad insulation may lead to electric shock, short circuit and/or fire.

- If the power cord is damaged, it must be replaced by the manufacturer or its agent, Sharp Authorized Service Center or equivalent qualified person so that hazard can be avoided.
- Do not operate the unit when spraying aerosol pesticides, or there is oil residue, smoke of incense, spark of cigarettes in the room, chemical fumes in the air, or in a highly humidified place such as a hathroom
- Please take care when cleaning the unit. Strong corrosive cleansers may damage the exterior of the unit.
- 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 that they do not play with the appliance.
- Only Sharp Authorized Service Center can repair the unit. If any problems, adjustments, and/or repairs occur, please contact your nearest Sharp Service Center.

Caution—Radio or TV Interference

Should this unit interfere with radio or television reception, please try at least one of the following measures to amend it:

- · Reorient or relocate the receiving antenna.
- Increase the distance between the air purifier and the radio/TV receiver.
- · Do not use the same socket to connect this unit and the receiver.
- If you need help, please contact your dealer or professional radio/TV technician.



If the power cord is damaged, it must be replaced by the manufacturer, Sharp Authorized Service Center or equivalent qualified person so that hazard can be avoided.

Cautions Concerning Operation

- · Do not block the air intake and air outlet.
- Do not place the unit near or on heating objects, such as stoves or heaters, or anywhere it may contact with steam when operating the unit.
- Please always operate the unit in an upright position.
- Please hold the handles on both sides of the unit firmly when moving the unit.

 Hold the panel when moving the unit may cause the panel to fall off, main unit to drop, and injury.
- Do not operate the unit without installing the filters, water tank and tray.
- Do not wash and/or reuse HEPA Filter and De-formaldehyde Filter.
- Clean the exterior of the unit with a soft cloth only.

Otherwise, the unit may be damaged or broken.

Moreover, it may lead to breakdown of the sensors.

- Please clean the unit regularly according to different water quality. The lower the purity of water is, the more often you should clean the unit.
- · Please keep the unit away from water source.

Installation Instruction

- When operating the unit, please place the unit at least 2 meters away from equipments with electric waves such as televisions, radios or clocks, so that electrical interference can be avoided.
- Do not install the unit in the place where the sensor is exposed to direct wind. Otherwise the unit may not operate properly.
- Do not install the unit in the place where objects like curtains are near the air intake or air outlet of the unit.

Otherwise, such objects may become dirty or the unit may break down.

- Do not install the unit in the place where the unit is exposed to condensation or drastic temperature changes.
- Please operate the unit in the room temperature between 0°C and 35°C.
- Please place the unit on a stable surface with sufficient air circulation.
 If the unit is placed on a thick carpet, it may cause the unit to vibrate slightly.
- Do not install the unit in the place where dark smoke will generate (e.g. kitchen).
- Otherwise, it may cause the surface of unit to crack or the sensor to break down.
- Please place the unit 30cm to 60cm away from the wall.

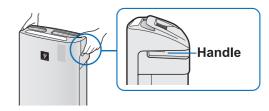
 It may cause the wall behind the air outlet of the unit to become dirty; if the unit is operated in the same location for a long period, please paste a soft rubber pad on the wall in order to prevent the wall becoming dirty. Moreover, please clean the wall regularly.

Filter Instruction

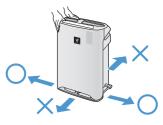
· Please follow the instruction in this manual to care and maintain the filters correctly.



When moving the unit, please stop the operation of the unit, remove the water tank and tray, and hold the handles on both sides of the unit.



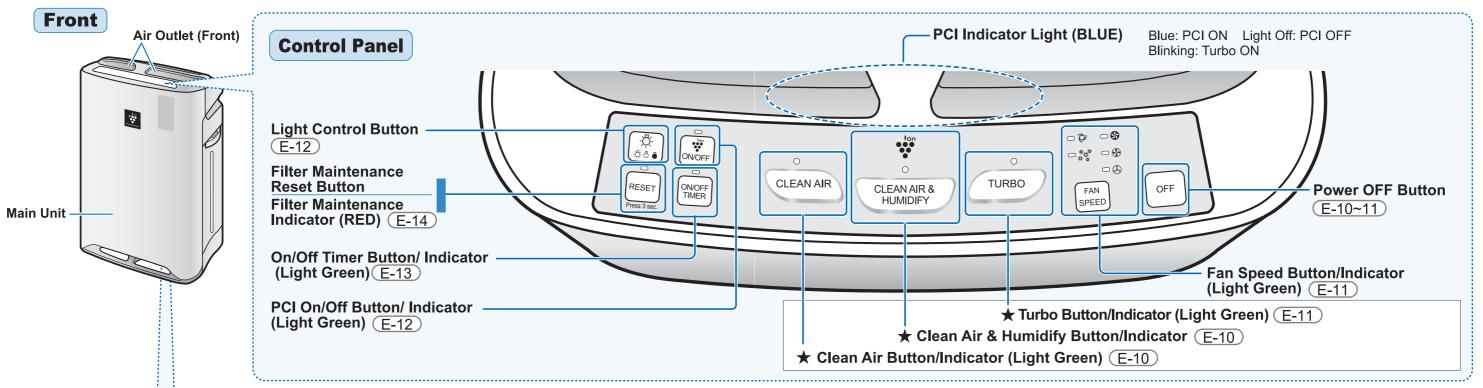
 Please move the unit in left or right direction slowly.

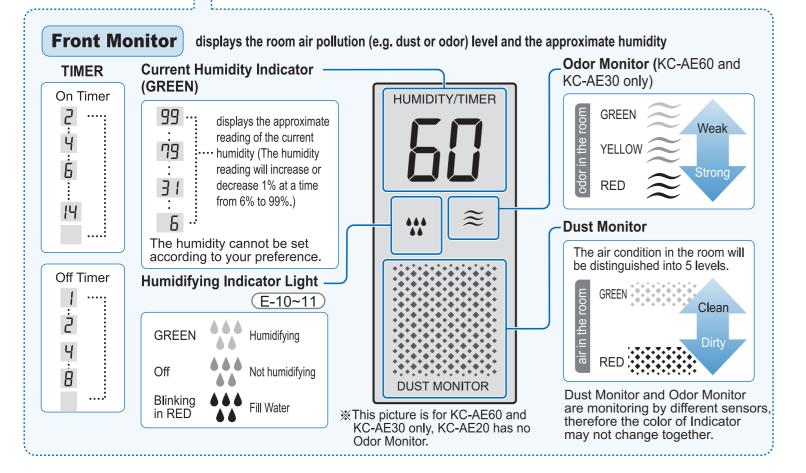


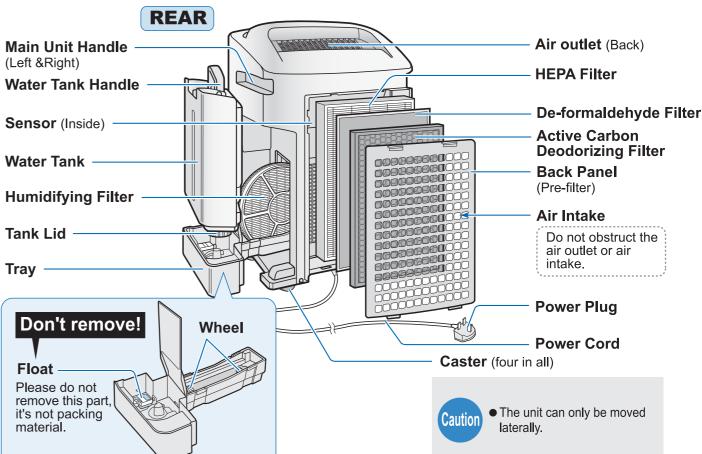
Parts Names



Main Unit, Control Panel and Front Monitor



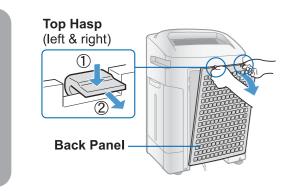




Before Operation

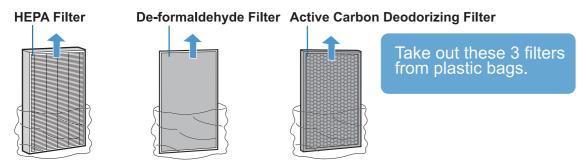
Filter Installation

Please do the following steps before plugging into the socket.

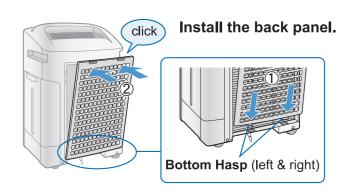


Remove the back panel and take out the filters.

 There are three filters in the unit.





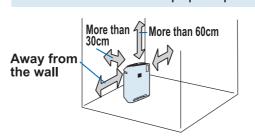


Please keep the unit away from the TV set, radio or wave clock, otherwise there will be radio interference and the reading might be wrong.



Location Requirements

Please locate the unit at the properest place.



In order to remove dust in an effective

way, please keep the unit 30cm away

from the wall.

break the unit down.

● Please avoid direct sunlight.

Otherwise, it may lead to change of shape, quality and/or color of the main unit.

Please operate the unit at room temperature from 0°C to 35°C.

Otherwise dew or frost may influence the life time of the filter or

 Please do not place the unit around the air outlet of an air-conditioner, heater or window.

Otherwise it may lead to change of shape, quality, and/or color and mishandling of sensor.

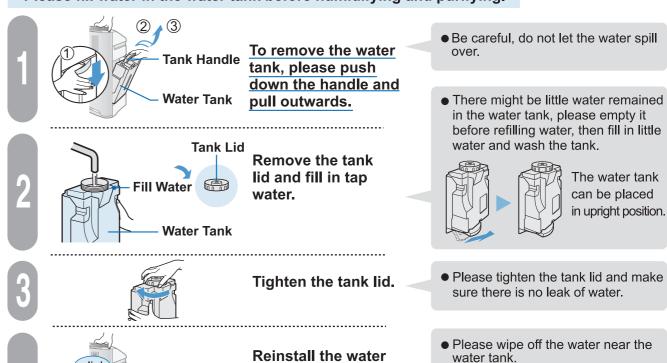
- Please put the unit in flat and stable places.
 Otherwise the unit may fall and thus lead to injury.
- Keep the unit away from curtains, walls and furnitures, etc.
- Keep the floor or wall near the unit clean.
 Otherwise damage or stain may occur to the wall or nearby area.

• Be careful. Avoid any accidents.

 Do not move the unit and make sure that the tank lid is installed firmly.

Fill the Water Tank

Please fill water in the water tank before humidifying and purifying.



- Caution
- Please use tap water only. (Otherwise it may cause breed of bacteria.)

tank in the unit.

 Please do not use hot water (≥40°C), sesame oil, chemicals, sewage, abstergent or aromatic etc. (Otherwise, it may cause crack or leakage.)

Operation





Clean Air & Humidify Mode

In general, the following operation is recommended. (The humidity cannot be adjusted according to your preference.)

Fill Wate





Add tap water into the water tank.

(E-9) **Water Tank**

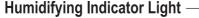


Choose "Clean Air & Humidify" mode and your favorite fan speed. (E-11)

 Plug the socket to start operation with fan speed at AUTO, PCI at ON (default setting).

• From the 2nd time, the operation mode will be the same as the former one.

beep



Green	Humidifying
Off	Not humidifying ※
♦♦♦ Blinking	Fill Water



- If water tank is empty, the Humidifying Indicator Light will blink in red. Operation continues with no humidifying.
- If Fan Speed is set at AUTO, the unit will automatically adjust the humidification amount to the best humidifying status; however, according to different room size and condition, the humidification effect may not be that perfect or the humidification amount may be excessive.

If it cannot reach the proper humidity please set Fan Speed at "High" or "Medium".

If the humidity is excessive.....please set at "Clean Air" mode. *When Fan Speed is set at AUTO or POLLEN, once the humidity is suitable for the room, the unit will stop humidifying and the "Humidifying" Indicator Light will be off.

Room Temperature	Humidity
~18℃	65%
18℃~24℃	60%
24℃~	55%

Clean Air Mode

Please use this mode in rainy days. (Even there is no water supply in the water tank, the unit can still operate.)





Choose "Clean Air" mode and your favorite fan speed.

(E-11)

 Plug the socket to start operation with fan speed at AUTO, PCI at ON (default setting).

• From the 2nd time, the operation mode will be the same as the former



Humidifying Indicator Light -

Off

Not humidifying

Turbo Mode

When the indoor air suddenly turns dirty

In 60 minutes, Turbo Mode will be on and Fan Speed will be set at "High". After 60 minutes, it will return to the former operation mode.



- Solution to virus and/or pollen when you go back to home
- When or after operating the vacuum cleaner
- Laundry are taken in
- Remove odor as soon as possible
- Solution to the odor after cooking or

I	— Humidifying Indicator Light —						
***	Green	Humidifying					
444	Off	Not humidifying ※					
***	Blinking in Red	Fill Water					





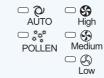


- If water tank is empty, the Humidifying Indicator Light will blink in red. Operation continuse with no
- When PCI mode is set at OFF, there will be no plasmacluster ion coming out; however, dust and odor can still be removed from the air.
- The humidifying mode will stop and the Humidifying Indicator Light will be OFF when it gets to the

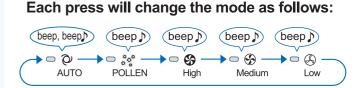
If the water tank is empty, the Humidifying Indicator Light will stay OFF when operating Turbo

Fan Speed

When the unit is set at Clean Air & Humidify Mode or Clean Air Mode, the fan speed can be adjusted. When Turbo mode is set on, the fan speed cannot be changed.







- AUTO	According to different room condition and the sensors of DUST, ODOR* or HUMIDITY, the unit will adjust the fan speed automatically.
■ POLLEN	After operating at High Fan Speed for ten minutes, the unit will operate between Low Fan Speed and High Fan Speed in twenty minutes alternately in order to remove pollen effectively.
■ High	Operating at High Fan Speed. (Operation sound will increase.)
■ Medium	Operating at Medium Fan Speed.
■ Low	Operating at Low Fan Speed.

Choose

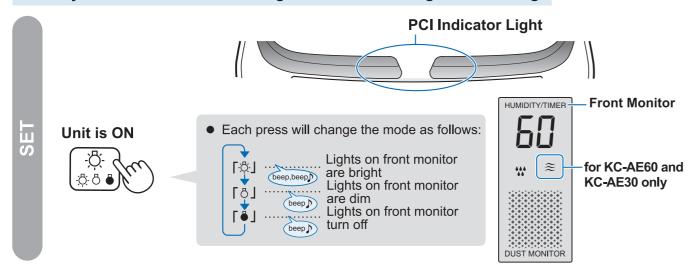
your favorite

fan speed.

Function

Light Control: Bright/Dim/Off

When you feel the Front Monitor Light or PCI Indictor Light are dazzling

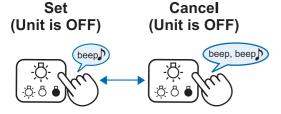




- Even the Monitor Light is set at OFF, the Humidifying Indicator Light will blink in red once the water tank is empty.
- Even the Monitor Light is set at OFF, the Monitor Light will operate at Dim if the unit is restarted.

Water Supply Alarm

Set / Cancel



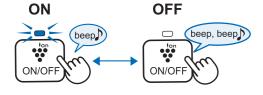
Press for 3 seconds at least

- If the Water Supply Alarm is on, you will hear "Beep, beep" for about 10 seconds, meanwhile the Humidifying Indicator Light will blink.
- If the Alarm is cancelled, you will hear nothing but the Humidifying Indicator Light will blink.
- Once the power supply runs off, this setting will be cancelled and therefore you will not hear the alarm.

PCI ON/OFF

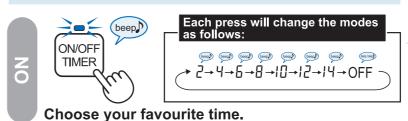
When you want to turn on/off PCI



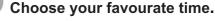


ON/OFF TIMER

Once set, the unit will automatically operate or stop as scheduled.



Each press will change the modes as follows:





- ON Timer and OFF Timer cannot be reserved together.
- Once there is a power failure, the operation and setting of ON Timer and OFF Timer mode will be cancelled. Please reset the Timer after power resumption.

- Press button when the unit is not in operation to activate ON Timer mode.
- The initial operation of ON TIMER mode is Fan Speed set at "AUTO", PCI at "ON".
 From the 2nd time, the operation mode will stay the same as the former one.
- When ON TIMER mode is set on, the LED light of ON/OFF TIMER button will be lighted on, and the reading on the Front Monitor displays the remaining hours before the unit starts operation. It decreases on a basis of 1 hour (i.e.!౺ ---->>∃ ---->>∃...).
- Press button when the unit is in operation to activate OFF Timer mode.
- Choose your favourite time within 3 seconds.
 A beep sound can be heard after finishing the setting.
- When OFF TIMER mode is set on, the LED light of ON/OFF TIMER button will be lighted on.
- Press putton to display the remaining hours before the unit stops operation. It decreases on a basis of 1 hour (i.e. \(\beta \to -> \beta --> \beta --> \beta ...\).
- Press OFF button to release the timing mode.

Dust Monitor or Odor Monitor
The Indicator remains in RED...... Please turn to LOW.
The Indicator remains in GREEN..... Please turn to HIGH.



Adjustment of Sensor Detection Sensitivity

1

Unit is OFF

FAN a

SPEED



Press for 3 seconds at least.

Choose your favorite sensor detection sensitivity within 8 seconds.

- Fan Speed Indicator Light shows the current sensor detection sensitivity. (The default setting is MEDIUM.)
- Each press of the button will change the modes as follows:



- If there is no operation within 8 seconds, it will be regarded as finished.
- Even if power supply is interrupted, the setting of the sensor dectection sensitivity will remain the same.

Detectable Substances

- Room dust (dust, mite feces, corpose, spore of mold and pollen), smoke of cigarettes, etc.
- Cigarettes, smell of incense, cosmetics, alcohol and sprayer, etc. (for KC-Z380A and KC-Z280A only)

Care and Maintenance

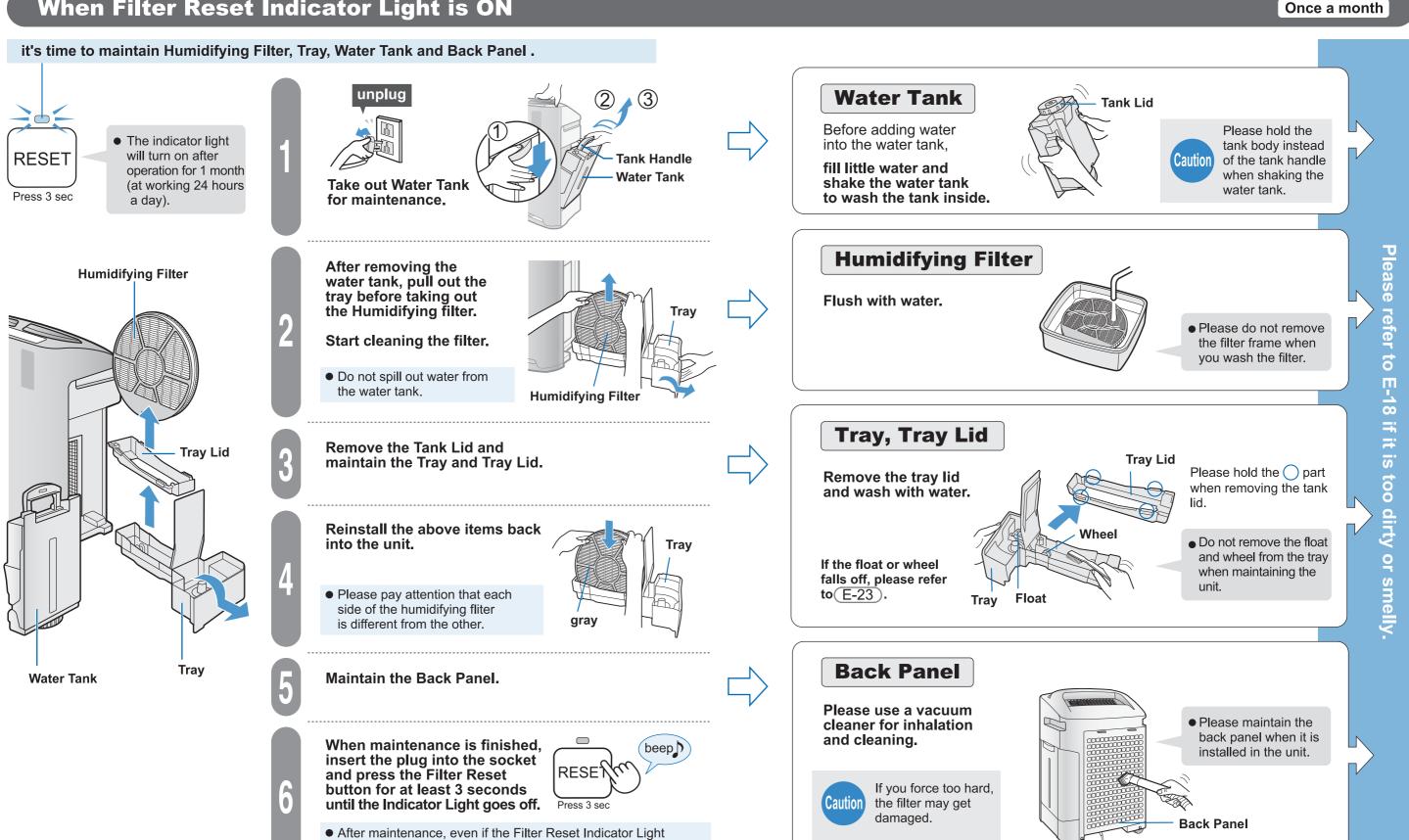
Care and Maintenance



Please maintain the unit regularly so that it can operate for a longer time.



When Filter Reset Indicator Light is ON



E-14 E-15

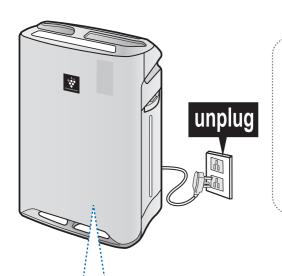
is off, please press the Filter Reset button for at least 3

seconds to reset the operation time.

Care and Maintenance (continue) Otherwise electric shock or injury may result.



Main Unit



Please do not use the following.









diluent volatile oil detergent gasoline bleach alcohol

detergent (for furniture)

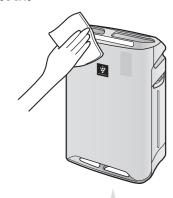
oven cleanser alkaline synthetic atomizing abluent mental brush

Main Unit

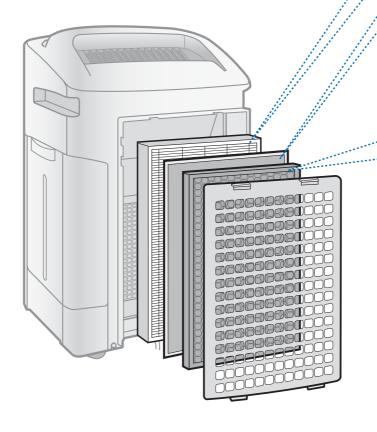


Do not rinse with water.

Please wipe the unit with a soft cloth.



- If the unit is too dirty, please wipe the unit with a cloth damped with water or warm water (≤40°C).
- Please keep the casters tidy and clean as well.



HEPA Filter, De-formaldehyde Filter, & Active Carbon Deodorizing Filter when the air from the air outlet is smelly; when the odor is hard to remove

XPlease maintain Active Carbon Deodorizing Filter, De-formaldehyde Filter and HEPA Filter together.

HEPA Filter

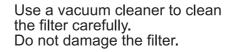
Please clean the labeling side of the filter carefully.



Do not wash with water, otherwise the filter will be damaged.

- Please only clean the labeling side. Avoid cleaning the other side which is without the blue stick, otherwise, the filter will be damaged.
- Remove the odor and dust on the filter.
- Since the filter can get damaged easily, please do not exert strong force when cleaning the filter.

De-formaldehyde Filter





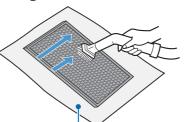
Do not wash with water, otherwise the filter will be damaged.

Active Carbon Deodorizing Filter



Do not wash with water, otherwise the filter will be damaged.

Gently inhale.



- Both sides can be cleaned and maintained. Overexert will cause breakage to the filter, therefore please pay special attention when cleaning the filter.
- Remove the odor and dust on the filter.

Please cover the ground with newspapers when maintaining the filter.

E-17

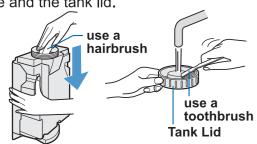
Care and Maintenance (continue) unplug the unit when maintaining the unit. Otherwise electric shock or injury may result.



When it is too dirty or smelly

Water Tank

Remove the tank lid and clean the tank inside and the tank lid.

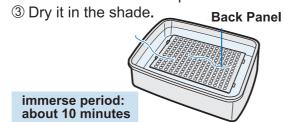


White pollutant may adhere to the rubber part of the tank lid, please clean and maintain it with a toothbrush.

Please dry the Water Tank if the unit is not in operation for a long period.

Back Panel

- ① Immerse the back panel into the water where synthetic detergent (for kitchen) is dissolved.
- ② Please rinse it thoroughly and make sure that there is no detergent remained on the back panel.



Humidifying Filter, Tray, Tray Lid

Smudginess status	Scale and odor	White substance		
Items to be cleaned	Humidifying Filter, Tray, Tray Lid	Humidifying Filter		
Preparation	Synthetic detergent powder (for kitchen) Please do not use the detergent if it is foamy, smelly, alkaline or acidic.	Citric acid available at drug store		
Agent	Adequate water or warm water (≤40°C)	Adequate water or warm water (≤40°C)		
Cleaning method	Immerse and wash.	Immerse and wash.		
Immerse period	About 30 to 60 minutes About 2 hours			
After immersing	Please clean the filter thoroughly and make sure no detergent or citric acid is remained; otherwise, it may cause odor, deformation or change of color.			



- Please do not use the detergent if it is foamy, smelly, alkaline or acidic, otherwise it may cause deformation, change of color or leakage.
- If the filter has not been cleaned thoroughly, it may cause odor, deformation or change of color.

When it is hard to remove the odor from the Humidifying Filter

- ① Please dissolve bicarb into the water and immerse the filter into the solution for about 30 minutes.
- ② After immersing, please rinse with water thoroughly. Please add 60g bicarb into 1000ml water.

Things to Remember

Function of Filter

	HEPA Filter	Active Carbon Deodorizing Filter	De-formaldehyde Filter		
Removable Substance	Pollen or allergen (feces or dead bodies of mites) Virus Mold Dust or dirt Smoke of cigarettes Pet hair	Smell of cigarettes (odor) Odor in washroom Odor of garbage Odor of pet	Formaldehyde Smell of cigarettes (odor) Odor in washroom Odor of garbage Odor of pet		
Irremovable Substance	Harmful gas (eg.CO from cigarettes) Continuous odor (eg.Odor of building materials of	or pets)			

Effective Usages

- Since the air purifier is the machine which collects indoor dust and odor, odor will stick on the filter surface if there is strong smell of aromatic, sesame oil, cigarettes or barbecue in the room; therefore, odor may occur in several weeks or months.
- If the above situation occurs, please care and maintain Active Carbon Deodorizing Filter, HEPA Filter, Deformaldehyde Filter and Humidifying Filter. If it still doesn't work, please replace with new ones.
- If there is strong smell in the room, please exchange the indoor air regularly.
- Compared to dust removal, deordorization costs more time.
- Please do not use silicone cosmetics near the unit.
- If silicone adheres to the unit, the unit may not generate Plasmacluster Ion.
- * Hair Products such as Mousse, hair-care liquid. make-up, antiperspirant, anti-water spray, brightener, window cleanser, chemical wiper and wax, etc.

Filter Replacement

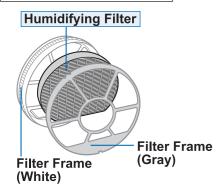


Humidifying Filter

about every 5 years **

Model: FZ-Z380MF-HK

Please use the original filter frame when replacing the filter.



Different water quality may lead to different service life of Humidifying Filter.

Please replace the filter if the following situation occurs within 5 years:

- The scale or odor cannot be removed even if the filter has been maintained.
- The color of the filter has changed to black or yellow, or the filter is polluted seriously.
- White substance covers the Humidifying Filter thoroughly.
- The filter is damaged or seriously deformed.
 (Please follow the instruction of Care and Maintenance in the manual when replacing the Humidifying Filter.) (E-14)



 Please discard the used Humidifying Filter according to the garbage classification method in your area.

Humidifying Fliter material······Rayon, PET

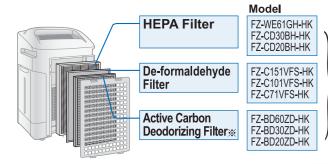
- Humidifying Filter is consumable; you have to pay for the replacement filter even if the filter is under warranty.
- If the unit is operated at Clean Air & Humidify mode for 12 hours a day, different water quality or operation condition will lead to different replacement cycle of filters.

HEPA Filter, De-formaldehyde Filter, Active Carbon Deodorizing Filter

HEPA Filter: about every 10 years*

Active Carbon Deodorizing Filter: about every 10 years

De-formaldehyde Filter: about every 2 years



These are not washable, please replace regularly. (Please replace the filter according to the Filter Installation Instruction in the manual.) E-8



- •Please put paper under the filter when replacing the unit, otherwise the surrounding may be polluted.
- Please discard the used filters according to the garbage classification method in your area.

HEPA Filter material······polypropylene, polyethylene
De-formaldehyde Filter material······mesh, polypropylene, polyester

- •The filter may be smelly within several weeks or months according to different operation condition; when the above situation occurs, please replace the filter.
- •Filter is comsumable; you have to pay for the replacement filter even if the filter is under warranty.

Troubleshooting

Before calling for service, please review the chart below.

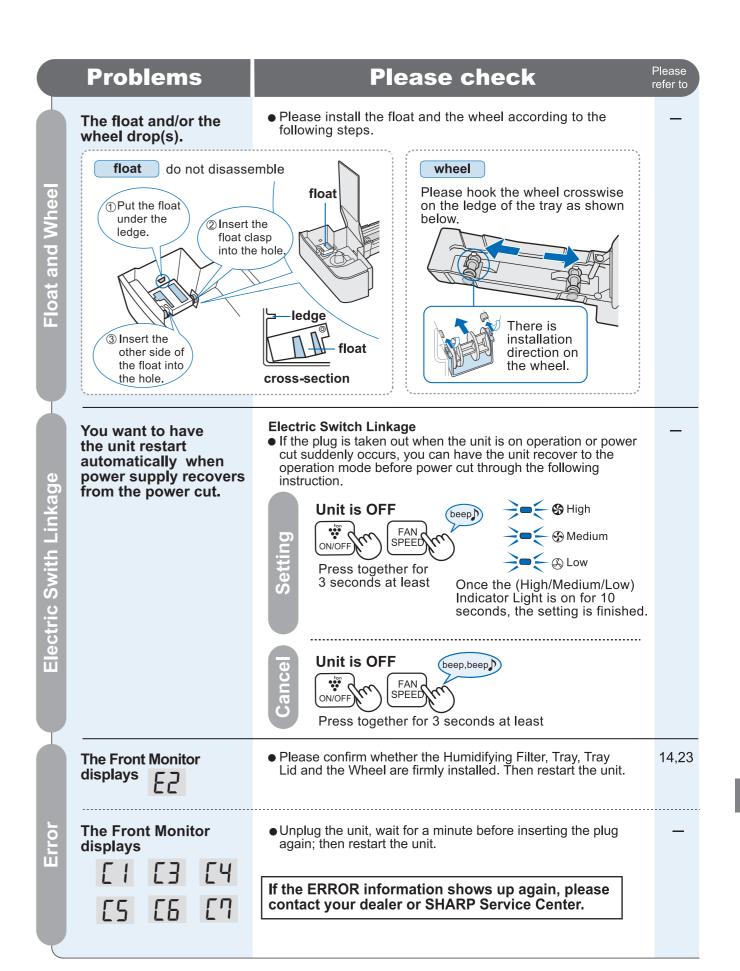


	Problems	Please check	Please refer to			
Humidification	Water level in the tank does not decrease or decreases slowly.	 Is the unit set at "AUTO", "POLLEN" or "TURBO" mode? ⇒ The unit will stop humidifying when the room humidity reaches at the appropriate level. Is the water tank, tray or humdifying filter installed correctly? Is there scale or dust on the humidifying filter? ⇒ Please care and maintain the above. The humidity may change according to different humidity and temperature in the room. e.g. When it is wet(like in rainy days) or cold, the humidifying amount will decrease and the water level in the tank will decrease slowly. When it is dry or hot, the humidifying amount will increase and the water level in the tank will decrease quickly. 				
	The humidity does not rise up.	 Is the room too big? ⇒ Please operate the unit within the recommended area. Is there any water remain in the water tank? Is there any scale or dirt on the humidifying filter? ⇒ Please care and maintain the unit. 	9 14~15,18			
	It's hard to remove odor and/ or smoke.	 Is the filter packed in the plastic bags? ⇒ Please take out the filter from the plastic bags. Does the air from the air outlet become weaker? ⇒ Please clean the dust at the following locations which is marked with ★. 				
		Main Back Unit Water Tray Humidifying Filter Active Carbon Decorraing Filter De-formaldehyde HEPA Filter ★ ★ ★ ★ ★ ★ ★				
Odor	The discharged air is smelly.	 Is the unit operated in a room with strong smell. e.g. If there is a strong smell of cigarette or barbecue in the room the filter might be smelly within several weeks or months; at this time, please replace the filter. ⇒ We advice you to ventilate the room regularly when the unit is on. Please check the ★ part as below and maintain the places where odor occurs. 				
		Maintenance Main Back Water Tray Humidifying Active Carbon De-formaldehyde HEPA				
		 Tray Tray Filter Decodorizing Filter Filter Fil				
Sound	A sound of "pip, pip" comes out from the unit.	 It is the sound of bubbles when they come from the water tank to the tray. According to different humidification amount, the frequency of the sound will be different. It is not a breakdown. 	_			
So	A clicking or ticking sound comes out from the unit.	It is the sound from the generation of Plasmacluster lons instead of a breakdown. According to different operation condition and operation mode, the sound volume may be different but the effect will stay the same.				

Troubleshooting

Troubleshooting (continue)

	Problems		Please refer to
	The reading on the Dust Monitor does not change.	 The sensitivity of the sensors may be unstable and the light color may not change in a period. After operating for several minutes, the sensitivity of the sensors will turn to be stable. However, if the sensitivity stays unstable after operating for several minutes, please adjust it. 	13
		• If the light stays green, the air in the room is fresh. Sometime it will be hard to monitor the odor since the odor is far away from the sensors. If the color of the Dust Monitor Indicator changes when blowing smoke to the unit or pat towel near the unit, it is not a breakdown.	_
tor		 If the indoor odor is very strong, sometimes the sensitivity of the odor monitor may come down. Please set the fan speed at "Medium" for several hours or a single day. 	_
Front Monitor		 Sometimes the sensitivity of the sensors may not conform to the room situation. ⇒ Please stop the operation and adjust the sensitivity. 	13
Front	Dust Monitor or Odor Monitor does not turn green.	 Due to the room's door and windows are always open, the dirty air comes from outside. It takes longer time to clean the air. 	_
	Dust Monitor or Odor Monitor Light changes quickly.	 This may be influenced by the wind or huge change in temperature through opening or shutting the door. 	_
	The Front Monitor is dazzling.	 The brightness of the Front Monitor can be adjusted or even turned off. Please press the Front Monitor Light Control Button to select your preferred brightness: Bright/ Dim/ Off. 	12
	Filter Reset Indicator	● Please clean and maintain the ★ part.	14~15
	light is on.	Maintenance Main Back Unit Water Tank Tray Humidifying Filter Active Carbon Deodorizing Filter De-formaldehyde Filter HEPA Filter ★ ★ ★ ★ ★	
	Filter Reset Indicator does not die out.	Do you press the Filter Reset button? ⇒ After maintenance, please press the Filter Reset button for 3 seconds at least.	14~15
Light	There is water in the water tank, but the Humidifying Indicator	 Does the float get stuck at any places? Please maintain the tray, clean the float and reinstall it back firmly. 	14,23
Indicator Light	Light does not light on or blink in red.	 Are the water tank and the tray installed firmly? Please install the water tank and the tray to the unit firmly. The float may be influenced by any magnetic substances (eg. a horn or a microwave oven). Therefore, it may not provide 	7 —
Ind		 correct water supply information. If the unit is set at "AUTO", "POLLEN" or "TURBO" mode, the unit will stop humidifying and the indicator light will turn off once it reaches the appropriate humidity. 	10~11
	The readings of "Current Humidity" is different from other hygrometers.	 Even in the same room, the humidity and temperature may be different because of different locations. The humidity sensor is different from other hygrometers, therefore their precision and reaction speed to humidity are different. (The reading of humidity is for your reference only.) 	_



Specifications

Model		KC-AE60					
Power Supply	220V / 50Hz						
Applicable Floor Area (m²)			4	6			
Mode		Clean Air		Clean	Air & Humidif	у	
Fan Speed	High Medium Low High Medium Lov				Low		
Air Flow Volume (m³/h)	380	270	160	360	270	160	
Power Consumption (W)	53 17 4.7 40 18 6.2					6.2	
Noise Level (dB/A)	61 50 35 60 50 35					35	
Maximum Humidification Amount (ml/h)	760						
Continuous Humidifying Period (h)			Appro	x. 5.3			
Water Tank Capacity (L)	Approx. 4.0						
Dimensions (mm)	413(W)X646(H)X288(D)						
Weight (kg)	Approx. 11						
Length of Power Cord (m)			2				

Replacement Filters

Filter Category	Filter Model
HEPA Filter	FZ-WE61GH-HK
De-formaldehyde Filter	FZ-C151VFS-HK
Active Carbon Deodorizing Filter	FZ-BD60ZD-HK
Humidifying Filter	FZ-Z380MF-HK

Caution: Lifetime of HEPA Filter is about 10 years **;

Lifetime of Active Carbon Deodorizing Filter is about 10 years.

Lifetime of Humidifying Filter is about 5 years;

Lifetime of De-formaldehyde Filter is about 2 years.

※ Determination for lifetime of HEPA Filter

Filter life and replacement period are based on the condition of smoking 5 cigarettes per day, reducing the dust collection/ deodorization ability to half compared with that of new filters, according to specification of The Japan Electrical Manufacturer's Association JEM 1467, the replacement period is 10 years.

The replacement period differs depending on the operation hours and location of installation.

The filters are consumables; therefore, you have to pay for the new one even it is still in warranty period.

For details, please contact SHARP Service Center.

Model	KC-AE30					
Power Supply		220V / 50Hz				
Applicable Floor Area (m²)			3	4		
Mode		Clean Air		Clean	Air & Humidif	у
Fan Speed	High Medium Low High Medium Low					Low
Air Flow Volume (m³/h)	280	160	80	250	160	80
Power Consumption (W)	31 10 4.1 26 12 6					6
Noise Level (dB/A)	58 45 33 57 45 33					33
Maximum Humidification Amount (ml/h)	600					
Continuous Humidifying Period (h)			Appro	x. 6.0		
Water Tank Capacity (L)	Approx. 3.6					
Dimensions (mm)	393(W)X603(H)X265(D)					
Weight (kg)	Approx. 9.2					
Length of Power Cord (m)			2)		

Replacement Filters

Filter Category	Filter Model
HEPA Filter	FZ-CD30BH-HK
De-formaldehyde Filter	FZ-C101VFS-HK
Active Carbon Deodorizing Filter	FZ-BD30ZD-HK
Humidifying Filter	FZ-Z380MF-HK

Caution: Lifetime of HEPA Filter is about 10 years **;

Lifetime of Active Carbon Deodorizing Filter is about 10 years.

Lifetime of Humidifying Filter is about 5 years;

Lifetime of De-formaldehyde Filter is about 2 years.

Determination for lifetime of HEPA Filter

Filter life and replacement period are based on the condition of smoking 5 cigarettes per day, reducing the dust collection/ deodorization ability to half compared with that of new filters, according to specification of The Japan Electrical Manufacturer's Association JEM 1467, the replacement period is 10 years.

The replacement period differs depending on the operation hours and location of installation.

The filters are consumables; therefore, you have to pay for the new one even it is still in warranty period.

For details, please contact SHARP Service Center.

Specifications

Model	KC-AE20					
Power Supply		220V / 50Hz				
Applicable Floor Area (m²)	24					
Mode	Clean Air			Clean Air & Humidify		
Fan Speed	High	Medium	Low	High	Medium	Low
Air Flow Volume (m³/h)	200	130	80	190	130	80
Power Consumption (W)	20	10	4.4	21	11	6
Noise Level (dB/A)	55	45	34	55	45	34
Maximum Humidification Amount (ml/h)	450					
Continuous Humidifying Period (h)	Approx. 6.7					
Water Tank Capacity (L)	Approx. 3.0					
Dimensions (mm)	375(W)×570(H)×234(D)					
Weight (kg)	Approx. 8.1					
Length of Power Cord (m)	2					

Replacement Filters

Filter Category	Filter Model
HEPA Filter	FZ-CD20BH-HK
De-formaldehyde Filter	FZ-C71VFS-HK
Active Carbon Deodorizing Filter	FZ-BD20ZD-HK
Humidifying Filter	FZ-Z380MF-HK

Caution: Lifetime of HEPA Filter is about 10 years **;

Lifetime of Active Carbon Deodorizing Filter is about 10 years.

Lifetime of Humidifying Filter is about 5 years;

Lifetime of De-formaldehyde Filter is about 2 years.

Determination for lifetime of HEPA Filter

Filter life and replacement period are based on the condition of smoking 5 cigarettes per day, reducing the dust collection/ deodorization ability to half compared with that of new filters, according to specification of The Japan Electrical Manufacturer's Association JEM 1467, the replacement period is 10 years.

The replacement period differs depending on the operation hours and location of installation.

The filters are consumables; therefore, you have to pay for the new one even it is still in warranty period.

For details, please contact SHARP Service Center.