

SHARP®

FX-J80M

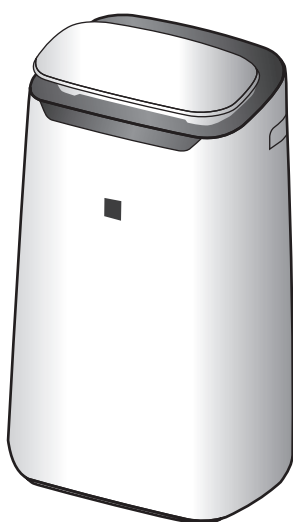
AIR PURIFIER
OPERATION MANUAL

Wi-Fi FUNCTION GUIDE



HIGH-DENSITY 25000 *

"Plasmacluster" and "Device of a cluster of grapes" are trademarks of Sharp Corporation .



* The number in this technology mark indicates an approximate number of ions supplied into air of 1 cm^3 , which is measured around the center of a room applicable floor area (at 1.2 m height above the floor) when the product is placed close to a wall at the MED mode setting.

OPERATION

Wi-Fi FUNCTION

OPERATION MANUAL

Thank you for purchasing this SHARP Air Purifier.
Please read this manual carefully before using the product.
This manual should be kept in a safe place for handy reference.

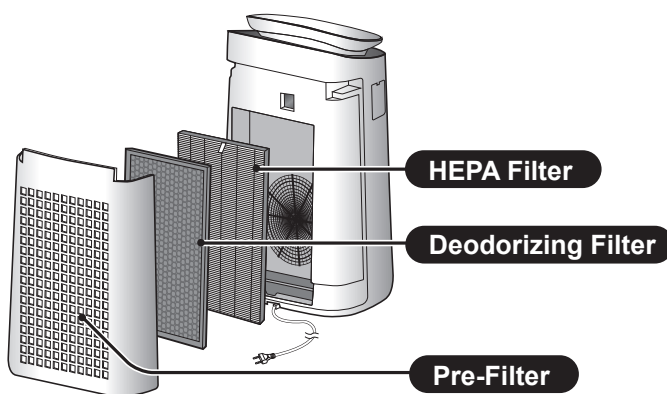
CONTENTS

IMPORTANT SAFETY INSTRUCTIONS	2
PART NAMES	4
PREPARATION	6
OPERATION	6
CARE AND MAINTENANCE	10
REPLACEMENT	11
TROUBLESHOOTING	12
SPECIFICATIONS.....	13

Wi-Fi FUNCTION GUIDE.....	14
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Please read before operating your new Air Purifier

The air purifier draws in room air through the air intake, circulates it through a Pre-Filter, a Deodorizing Filter and a HEPA Filter inside the main unit, and then discharges it through the air outlet. The HEPA Filter can remove 99.97% of dust particles as small as 0.3 microns that pass through the filter and also helps absorb odors. The Deodorizing Filter gradually absorbs odors as they pass through the filter.



Some odors absorbed by the filters will break down over time, causing additional odors. Depending on usage conditions, and especially if the main unit is used in environments significantly more severe than a normal household, these odors may become noticeable sooner than expected. If these odors persist, replace the filters. (Page 11)

NOTE

- The air purifier is designed to remove air-suspended dust and the odors.
The air purifier is not designed to remove harmful gases such as carbon monoxide contained in cigarette smoke.
The air purifier may not completely remove an odor if the source of the odor is still present.

A unique Combination of Air Treatment Technologies Triple Filtration System + Plasmacluster



HIGH-DENSITY 25000 *

High Density Plasmacluster 25000
The higher the PCI density is, the more effective PCI has.

OPERATION

Triple Filtration System

TRAP DUST

Pre-filter traps dust larger than approx 240 micron particles.

DECREASES ODORS

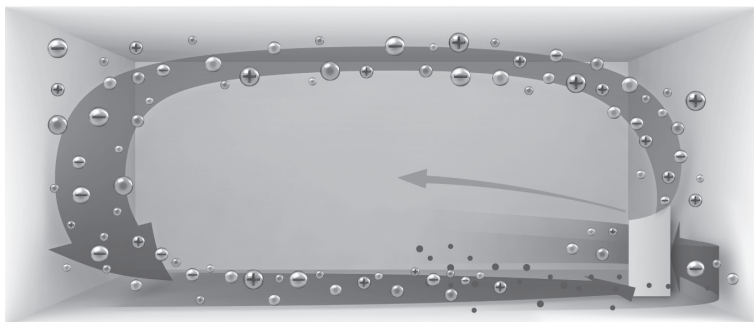
Deodorizing filter absorbs many common household odors.

REDUCES TINY DUST, POLLEN & MOLD

HEPA filter traps 99.97% of particles as small as 0.3 microns.

Unique Airflow

Powerful air suction and unique airflow quickly and efficiently collect dust and other particles.



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

Plasmacluster can remove static electricity and can thus prevent dust from attaching to walls and other surfaces.

Plasmacluster

By emitting a balance of positive and negative ions, Plasmacluster air treatment is a natural process.

Wi-Fi Function

- Propose optimal mode based on weather information and current condition of the room.
- Confirm that condition of air quality of the room and the air has become clean visually.
- Control the product through smart phones as remote control.
- Propose optimal timing for filter exchange.

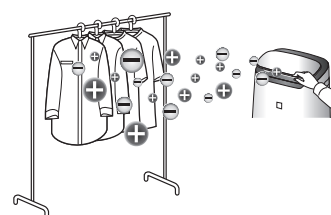
For details, please see "Wi-Fi FUNCTION GUIDE" on Page 14.

PM2.5 Monitor

- Inform by lighting PM2.5 monitor when Sensitive Dust sensor detects microscopic dust.
- Display the value of PM2.5 in 3 digits.

Plasmacluster Ion Spot Mode

- Recommended when odor and germs adhering to sofa and curtains are concerned.
- Emits highdensity Plasmacluster Ions only in the forward directions.



IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electrical appliances, including the following:

WARNING – Always observe the following to reduce the risk of electrical shock, fire, or injury:

- Read all instructions before using the main unit.
- Use only a 220-240 volt outlet.
- **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.**
- **If the power cord is damaged, it must be replaced by the manufacturer, its service agent, a Sharp authorized Service Center or similarly qualified persons in order to avoid a hazard. Contact the nearest Service Center for any problems, adjustments, or repairs.**
- **Be sure to remove the power plug, before performing maintenance, when removing and attaching and replacing the filter and when not using for a long time. Failure to do so can cause a short circuit resulting in electrical shock or fire.**
- Do not use the main unit if the power cord or plug is damaged or if the connection to the wall outlet is loose.
- Periodically remove dust from the plug.
- Do not insert fingers or foreign objects into the air intake or air outlet.
- When removing the power plug, always hold the plug and never pull on the cord. Failure to do so can cause a short circuit resulting in electrical shock or fire.
- Be careful not to damage the power cord, it may cause electric shock, excess heat or fires.

- Do not remove the plug when your hands are wet.
- Do not place the main unit near or on hot objects, such as stoves or heaters, or where it may come into contact with steam.
- Do not operate the main unit in rooms where aerosol insecticides are present. Do not operate the main unit in rooms where there is oily residue, incense, sparks from lit cigarettes, or chemical fumes in the air. Do not operate the main unit in places where it may get wet, such as a bathroom.
- Be cautious when cleaning the main unit. Strong corrosive cleansers can damage the exterior.
- Do not expose the main unit to water. Doing so can cause a short circuit or electrical shock.

NOTE – What to do if the main unit interferes with radio or TV reception

If the air purifier interferes with radio or television reception, try one or more of the following measures:

- Adjust or reposition the receiving antenna.
- Increase the distance between the main unit and the radio or TV.
- Connect the equipment into an outlet on a circuit different from that of the radio or TV receiver.
- Consult the dealer or a qualified radio or TV technician.

CAUTIONS CONCERNING OPERATION

- Do not block the air intake or air outlet.
- Always operate the main unit in an upright position.
- Do not move the main unit when it is in operation.
- When moving the main unit, use the handles on both sides.
- If the main unit is on easily damaged flooring, an uneven surface, or thick-piled carpet, lift it up when moving.
- Do not operate the main unit without the filters properly installed.
- Do not wash and reuse the HEPA filter and the Deodorizing filter.
Doing so will not improve filter performance and can also cause electric shock or operating malfunctions.
- Clean the exterior with a soft cloth only. Do not use volatile fluids or detergents. The main unit surface may be damaged or cracked with Benzine, paint thinner or polishing powder. In addition, the sensors may malfunction as a result.
- Keep the main unit away from water.
- Do not scrub the Back Panel hard during its maintenance.

INSTALLATION GUIDELINES

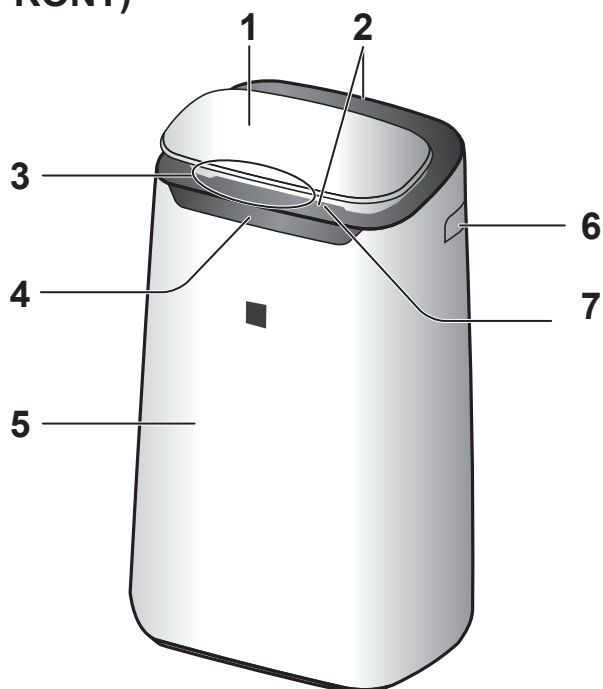
- Avoid locations where the sensors are exposed to direct wind.
Doing so can cause the main unit to malfunction.
- Avoid locations where furniture, fabrics, or other objects can come in contact with the main unit and interfere with the intake and outlet of air.
- Avoid locations where the main unit is exposed to condensation or drastic changes in temperature. Appropriate room temperature is between 0 – 35 °C.
- Place the main unit on a level and stable surface with sufficient air circulation. When placed on heavy carpet, the main unit may vibrate slightly.
- Avoid locations that generate grease or oily smoke.
Doing so can cause the main unit exterior to crack and the sensors to malfunction.
- The dust collecting ability of the main unit is effective even when the main unit is as close to 3 cm from the wall, the surrounding walls and floor may get dirty. Please place the main unit at a distance from the wall.
The wall directly behind the air outlet may become dirty over time. When using the main unit for an extended period of time at the same location, periodically clean the walls adjacent to it.

FILTER GUIDELINES

- Follow the instructions in this manual for proper filter care and maintenance.
(Page 10)

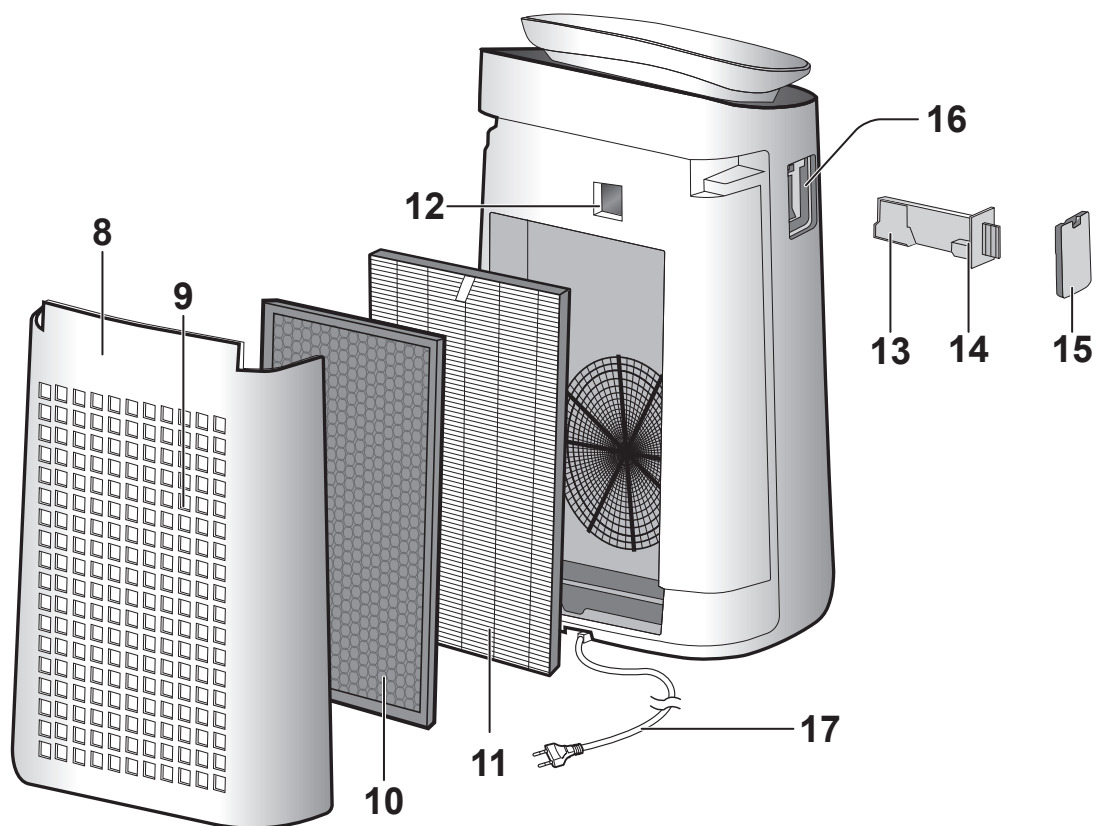
PART NAMES

(FRONT)



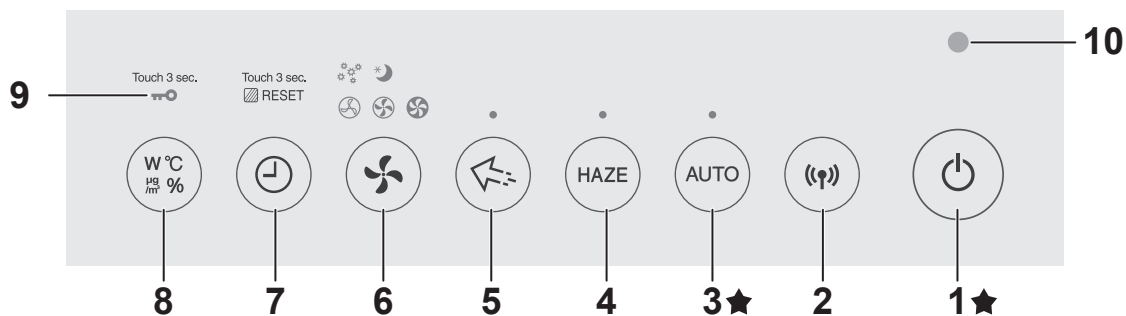
1. Operation Panel
2. Air Outlet (Front/Back)
3. Cleanliness Monitor
4. Front Display
5. Main Unit
6. Handle (2 Locations)
7. Front Louver
8. Back Panel (Pre-Filter)
9. Air Inlet
10. Deodorizing Filter
11. HEPA Filter
12. Sensor (Internal) / Sensor Filter
Odor / Dust(sensitive) / Temperature / Humidity
13. Plasmacluster Ion Generating Unit
14. Unit Holder
15. Unit Cover
16. Unit Cleaning Brush
17. Power Cord, Plug

(BACK)

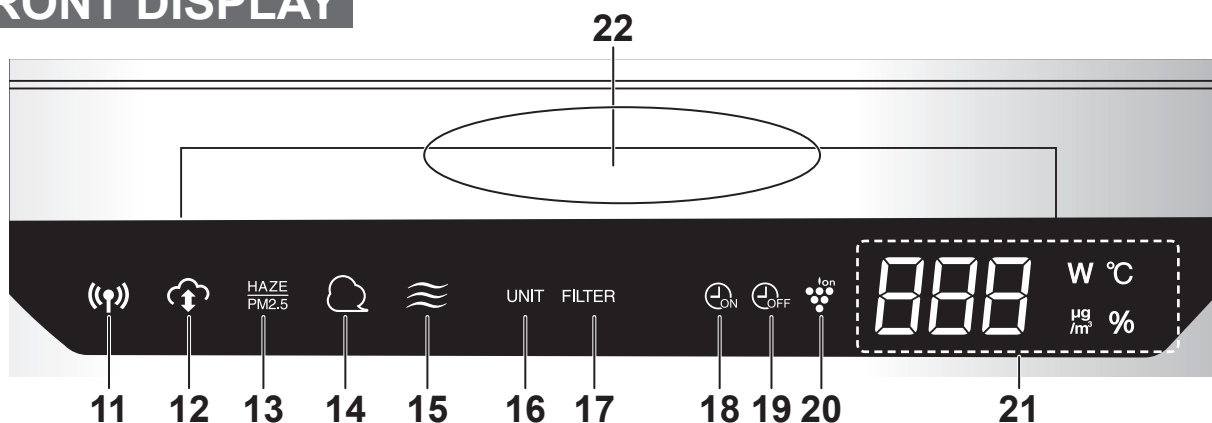


OPERATION PANEL

Press the button with "★" to start.



FRONT DISPLAY



1. Power ON/OFF Button
2. Wi-Fi Button
3. AUTO Button, Indicator Light
4. HAZE Button, Indicator Light
5. Plasmacluster Ion SPOT Button, Indicator Light
6. MODE Button, Indicator Light
7. Timer Button
(Press 3 sec.) FILTER RESET Button
8. DISPLAY Button
(Press 3 sec.) CHILD-LOCK Button
9. Child-Lock Indicator Light
10. Light Sensor
11. Wi-Fi Indicator Light
12. CLOUD SERVICE Indicator Light
13. HAZE/PM2.5 Monitor
Indicates the Dust(sensitive) Sensor detects microscopic dust.
TURN OFF Clean ← Orange → Impure Red
14. Dust Monitor
Indicates the Dust(sensitive) Sensor detects usual dust.
TURN OFF Clean ← Orange → Impure Red
15. Odor Monitor
Indicates the Odor Sensor detects odors.
TURN OFF Clean ← Orange → Impure Red

16. Unit Replacement Indicator Light
17. Filter Replacement Indicator Light
18. ON Timer Indicator Light
19. OFF Timer Indicator Light
20. Plasmacluster Ion Indicator Light
21. DISPLAY

• PM2.5 Monitor

PM2.5 10 $\mu\text{g}/\text{m}^3$ to 499 $\mu\text{g}/\text{m}^3$ is displayed.

9 $\mu\text{g}/\text{m}^3$ or less **Lo** ↔ **34** ↔ **Hi** 500 $\mu\text{g}/\text{m}^3$ or more

• Wattage Monitor

Indicates wattage by current operation.

• Humidity Monitor

Humidity 20% to 90% is displayed.

20% or less **20** % ↔ **55** % ↔ **90** % 90% or more

• Temperature Monitor

Temperature 0°C to 50°C is displayed.

-1°C or less **Lo** °C ↔ **25** °C ↔ **Hi** °C 51°C or more

• Timer Monitor

Indicates setting time or remaining time of ON/OFF timer.

22. Cleanliness Monitor

Indicates the air purity of the room in 5 levels with color changes.

Blue Clean ← Orange → Impure Red

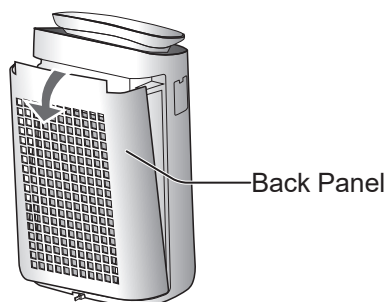
PREPARATION

Always be sure to remove the power plug from the wall outlet.

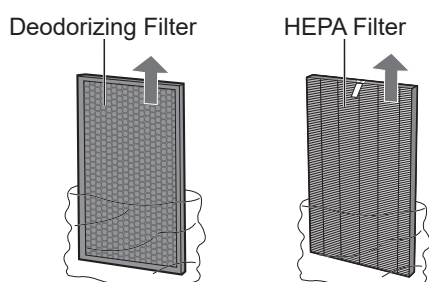


FILTER INSTALLATION

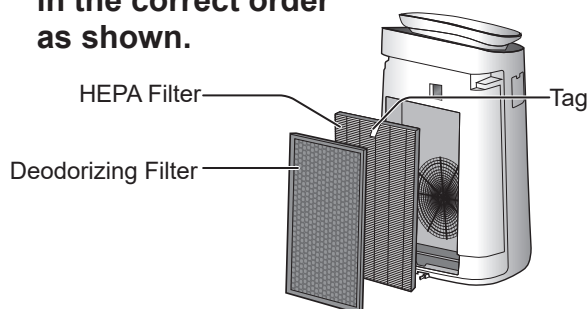
1. Remove the Back Panel.



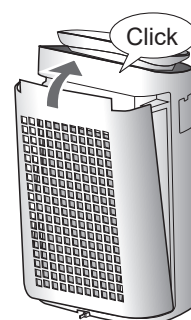
2. Remove the plastic bag from the each filter.



3. Install the filters in the correct order as shown.



4. Install the Back Panel.



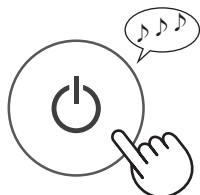
NOTE

- When replacing the filter, making a memo of the start of use date is recommended.

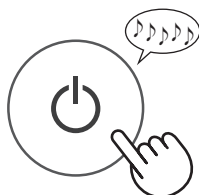
OPERATION

START/STOP

START



STOP



AUTO MODE

The fan speed is automatically controlled depending on the 3 detection. (Dust(sensitive) / Odor / Light)



NOTE

- Front Display, Cleanliness Monitor automatically switch ON and OFF based on room brightness. (When light control is set to "Auto". (Page 8,9))

HAZE MODE

Operates at HIGH fan speed for 60 minutes and then alternates between Low and High level for 20 minutes each.



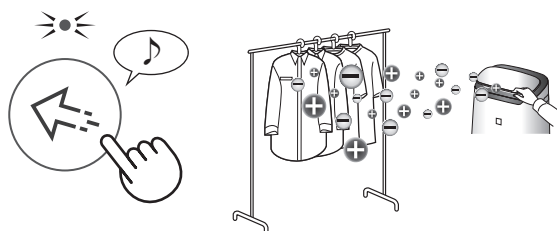
10 minutes:	Max High fan level
50 minutes:	High fan level
20 minutes:	Low fan level
20 minutes:	High fan level

NOTE

- The Plasmacluster Ion can not be turned "OFF".

PLASMACLUSTER ION SPOT MODE

Use this mode when you want to remove adhering odor, germs, and other substances from cloths, sofas and curtains.

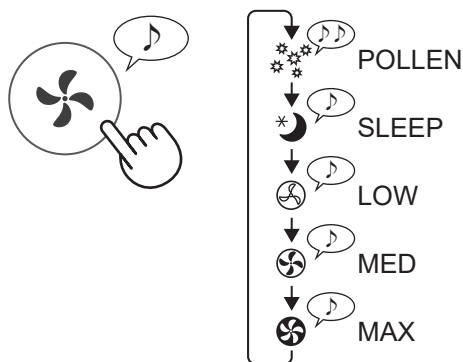


Adjust Front Louver manually.

NOTE

- Emits highdensity Plasmacluster Ions only in the forward direction.
- Discharges stronger air for 8 hours. When the operation finishes, the main unit will return to its prior operation mode.
- The Plasmacluster Ion can not be turned "OFF".

SELECTING MODE



SLEEP :

The main unit will operate quietly, and the fan speed is automatically switched depending on the amount of impurities in the air. The Front Display and Cleanliness Monitor go off automatically.

POLLEN :

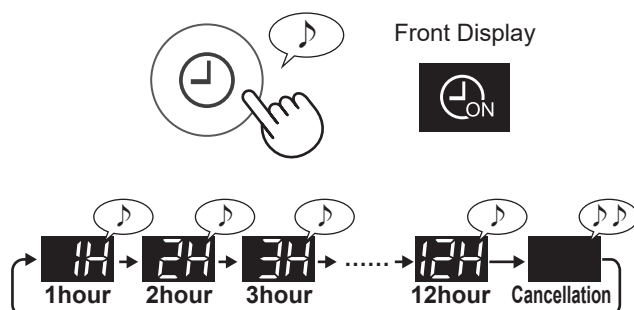
The DUST SENSOR sensitivity is automatically increased and quickly detects impurities such as dust and pollen and clean the air powerfully.

ON TIMER

Select the length of time you want.

The Main Unit automatically starts once the selected time is passes.

(with the Main Unit OFF)



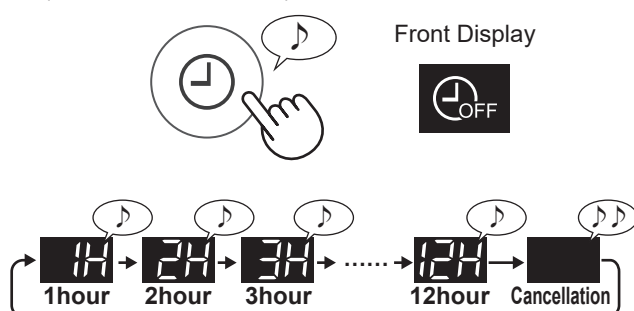
* If you have already set the timer using the App, you cannot set the timer using the product.

OFF TIMER

Select the length of time you want.

The Main Unit automatically stops once the selected time is reached.

(with the Main Unit ON)



* If you have already set the timer using the App, you cannot set the timer using the product.

CHILD LOCK

The operation of the operation panel will be locked.

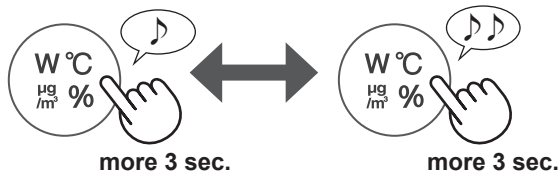
ON

Touch 3 sec.



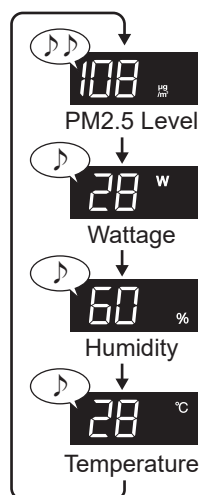
CANCELLATION

Touch 3 sec.



SELECTING DISPLAY

(with the Main Unit ON)



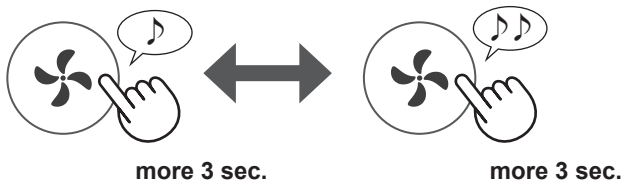
PLASMACLUSTER ION ON/OFF

When the Plasmacluster function is ON, the Plasmacluster Ion Indicator Light is on. (Page 5)

(with the Main Unit ON)

ON

OFF

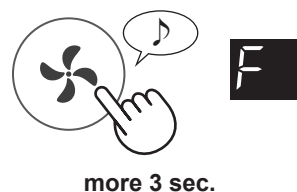


HOW TO CHANGE VARIOUS SETTINGS

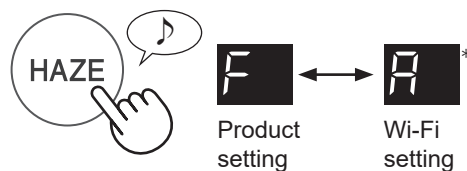
You can change the functions in the table on Page 9.

1. Turn the Main Unit power OFF.

2.



• You can select F or A.



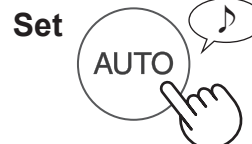
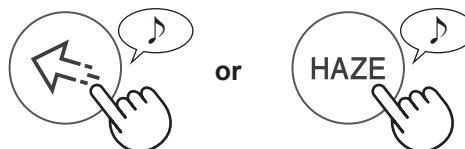
* For details on selecting A, refer to "Wi-Fi FUNCTION GUIDE" on Page 18.



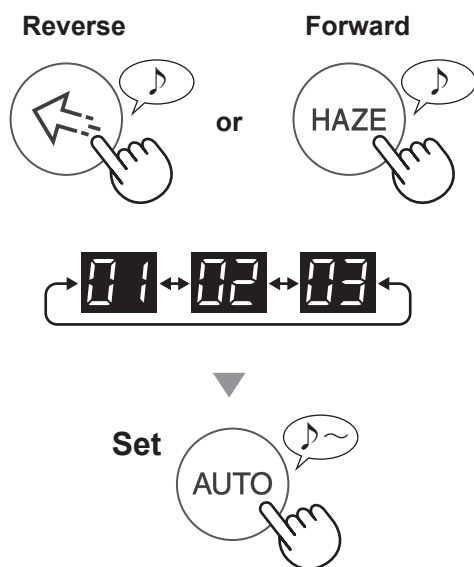
3. Select "Function number".

Reverse

Forward



4. Select "Setting number".



5. Press Power ON/OFF Button to finish the setting.



Function	Setting
Light Control You can select the brightness of the Front Display and Cleanliness Monitor.	<div> <div>01</div> <div>Turn off *</div> </div> <div> <div>02</div> <div>Darker</div> </div> <div> <div>03</div> <div>Auto (default)</div> <div>Light automatically switches ON or OFF based on room brightness.</div> <div>Room is bright : Light is ON.</div> <div>Room is dark : Light is OFF.</div> </div>
Auto Restart If the Main Unit is unplugged or if there is a power failure, the Main Unit will resume operation with the previous settings after power is restored.	<div> <div>01</div> <div>Cancellation</div> </div> <div> <div>02</div> <div>ON (default)</div> </div>
Adjusting Sensor Sensitivity (F3-F5)	
Light Sensor	<div> <div>F3</div> <div>01</div> <div>Low</div> </div>
Dust(sensitive) Sensor	<div> <div>F4</div> <div>02</div> <div>Standard (default)</div> </div>
Odor Sensor	<div> <div>F5</div> <div>03</div> <div>High</div> </div>

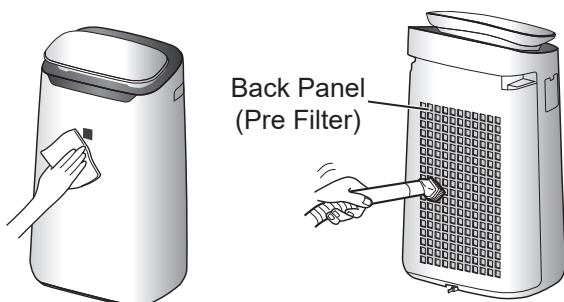
* When set to "Turn off", the "Darker" light illuminates for 8 seconds after operation starts and then the light turns off.

CARE AND MAINTENANCE



MAIN UNIT / BACK PANEL

Wipe with a dry, soft cloth



Remove the dust gently with a cleaning tool such as a vacuum cleaner.

NOTE How to clean hard to remove dirt.

Back Panel

1. Add a small amount of neutral detergent to water and soak for about 10 minutes.

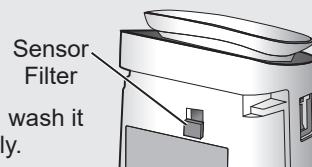
CAUTION

Do not apply excessive pressure when scrubbing the back panel.

2. Rinse off the neutral detergent with clean water.
3. Completely dry the filter in a wellventilated area.

Sensor Filter

1. Remove the Back Panel.
2. Remove the sensor filter.
3. If the sensor filter is very dirty, wash it with water and dry it thoroughly.



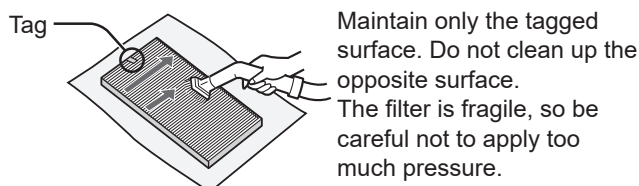
HEPA FILTER / DEODORIZING FILTER

Remove the dust on the filters.

CAUTION

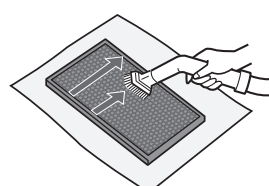
Do not wash the filters. Do not expose to sunlight. (Otherwise these filters may lose efficacy.)

HEPA FILTER



Maintain only the tagged surface. Do not clean up the opposite surface. The filter is fragile, so be careful not to apply too much pressure.

DEODORIZING FILTER



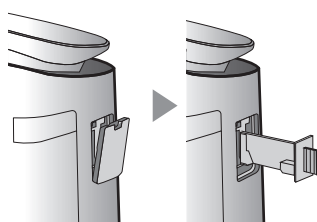
Both surfaces can be maintained. The filter may be broken if being too much power is applied on it, so please handle it with care.

Some odors absorbed by the filters will break down over time, causing additional odors. Depending on usage conditions, and especially if the Main Unit is used in environments significantly more severe than a normal household, these odors may become noticeable sooner than expected.

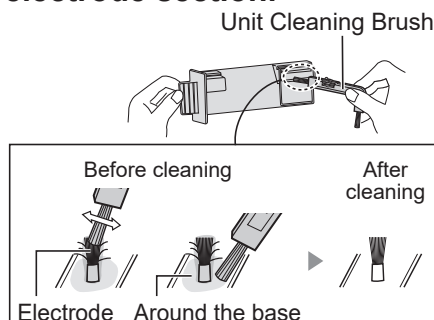
Replace the filter in those cases or if dust is unable to be removed after maintenance.

Plasmacluster Ion Generating Unit (electrode section)

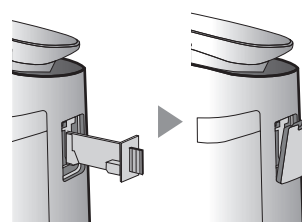
1. Remove the unit cover, and pull out the unit holder.



2. Remove dusts from the electrode section.



3. Insert the unit holder in the Main Unit, and install the unit cover.



CAUTION

- Do not clean with anything other than the unit cleaning brush. Doing so could lead to failures in the unit.
- A bent electrode could be cut off and dropped during the cleaning process, but it will not change the performance.
- Do not touch the electrode directly. Doing so could lead to pain/itching.
- Do not transform the electrode section. Doing so can damage it.
- Do not touch the connection terminals. Doing so can damage them.

REPLACEMENT

HEPA FILTER / DEODORIZING FILTER

LIFE OF FILTERS

Filter life varies depending on the room environment, usage conditions, and location of the Main Unit. Lifespan of HEPA filter and Deodorizing filter and replacement suggestions are based on purifying a room in which 5 cigarettes are smoked per day and the Main Unit's dust collection and deodorizing performance has declined to half the level of a new filter.

We recommend replacing the filter more frequently if the Main Unit is used in conditions significantly more severe (PM2.5, etc.) than a normal household.

- HEPA Filter About 2 years after opening
- Deodorizing Filter About 2 years after opening

FILTER REPLACEMENT INDICATOR

When the filter replacement is needed soon, the filter indicator lamp start blinking. the blinking speed becomes faster once the timing comes.

Filter life varies depend on the operation mode.



Replace the Filter according to the instructions provided with the replacement filter.

After performing replacement, reset the Filter Replacement Indicator.

RESET

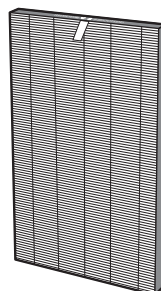


more 3 sec.

Replacement Filter Model

Consult your dealer when purchasing a replacement filter.

HEPA Filter(1 unit)
FZ-J80HFE



Deodorizing Filter(1 unit)
FZ-J80DFE



Disposing of filters

Dispose of used filters according to local laws and regulations.

HEPA Filter material:

- Polypropylene
- Polyethylene



Deodorizing Filter material:

- Polypropylene
- Polyester
- Activated carbon

Plasmacluster Ion Generating Unit

UNIT REPLACEMENT INDICATOR

When the total operation time exceeds 17,500 hours, the Unit Replacement indicator will flash to indicate that the Plasmacluster Ion Generating Unit needs replacement.

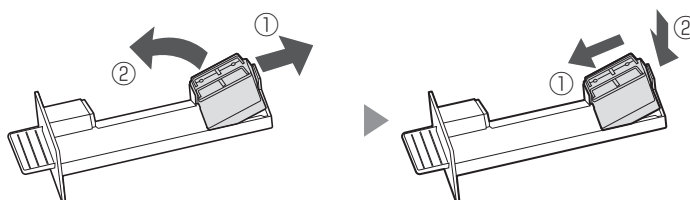
Operating time	
17,500 hours	
	Replace the Plasmacluster Ion Generating Unit.
Flash slowly	
19,000 hours	
	Stop the emission of the Plasmacluster ions.
Flash quickly	

* The replacement time is not related to the selected operation mode.

Replacement Plasmacluster Ion Generating Unit Model

Consult your dealer when purchasing a replacement Plasmacluster Ion Generating Unit.

IZ-C90ME



Remove the claw of unit holder(①), and remove the Plasmacluster Ion Generating Unit(②).

Disposing of Plasmacluster Ion Generating Unit

Dispose of used Plasmacluster Ion Generating Unit according to local laws and regulations.

material:

- Polystyrene terephthalate
- electronic parts

TROUBLESHOOTING

Odor and smoke persists.

- Check the filters. If they appear to be extremely dirty, clean or replace them.

The Cleanliness Monitor is blue even when the air is not clean.

- The air may have been dirty when the main unit was plugged in. Unplug the main unit, wait one minute, and then plug the main unit in again.

The Cleanliness Monitor light is red even when the air is clean.

- Dirty or clogged dust(sensitive) sensor openings interfere with sensor operation. Gently clean the sensor filter or the back panel.

The Main Unit makes a clicking or ticking sound.

- The main unit may make clicking or ticking sounds when it is generating ions.

Air discharged from the Main Unit has an odor.

- Check to see if the filters are extremely dirty.
- Clean or replace the filters.

The Main Unit does not operate when cigarette smoke is in the air.

- Make sure the Main Unit is installed in a location in which the sensors can detect cigarette smoke.
- Check to see if the dust(sensitive) sensor openings are blocked or clogged. If they are blocked or clogged, clean the sensor filter or the back panel.

Smell from a new Main Unit and/or filter.

- Immediately after removing the plastic bag, a slight odor may occur. This odor is not harmful for filter performance or human exposure.

The FILTER Replacement Indicator Light is on.

- Whenever after performing replacing the filters, connect the power cord to an outlet and then press the Filter Reset Button. (Page 11)

The Front Display is turned off.

- When Light control is set to "Auto", the light automatically turns off when the room is dark. Moreover, when Light control is set to "Turn off", the light is always off. If you do not want the light to be off, set Light control to the "Darker" setting. (Page 8,9)

The Cleanliness Monitor changes color frequently.




- The Cleanliness Monitor automatically changes color when the dust(sensitive) sensor and odor sensor detect impurities. If you are concerned about the change, you can change sensor sensitivity. (Page 8,9)

The Main Unit's Display does not match weather report or another hygrometer or thermometer in the room.

- Outdoor and indoor as well as the home environment (the volume of traffic nearby, number of stories in home, etc.) may cause a reading different than those data.
- There is a difference in the level within the same room.

ERROR DISPLAY

If error occurs repeatedly, contact the Sharp Service Center.

	<ul style="list-style-type: none">• The concentration of Plasmacluster ion is descending. ⇒ Maintain the Plasmacluster Ion Generating Unit (electrode section).
	<ul style="list-style-type: none">• Is the the Plasmacluster Ion Generating Unit inserted properly? ⇒ Pull out the the Plasmacluster Ion Generating Unit and insert it to the end again, and then carry out the operation again.
	<ul style="list-style-type: none">• Unplug the Main Unit, wait one minute, and then plug the Main Unit in again.

SPECIFICATIONS

Model	FX-J80M		
Power supply	220 - 240 V ~ 50 - 60 Hz		
Fan Speed Adjustment	MAX	MED	LOW
Fan Speed (m ³ /hour)	480	288	60
Noise Level (dBA)* ¹	47	45	15
Rated Power (W)	48	28	4.0
Standby Power(W)	1.7 (When Wi-Fi adapter is ON.) 1.3 (When Wi-Fi adapter is OFF.)		
Recommended Room Size (m ²) * ²	~ 62		
High density Plasmacluster ion recommended room size (m ²) * ³	~ 35		
Cord Length (m)	2.0		
Dimensions (mm)	416 (W) × 291 (D) × 728 (H)		
Weight (kg)	10.6		

*1 • Noise level is measured based on the JEM1467 standard of the Japan Electrical Manufacturers' Association.

*2 • The recommended room size is appropriate for operating the main unit of maximum fan speed.

• The recommended room size is an area in which a given amount of dust particles can be removed in 30 minutes (according to JEM1467).

*3 • Room size in which approximately 25000 ions per cubic centimeter can be measured in the center of the room when the main unit is placed next to a wall, is running at MED mode settings, and is at a height of approximately 1.2 meters from the floor.

Standby Power

When the main unit's power plug is inserted in a wall outlet it consumes standby power in order to operate electrical circuits. To conserve energy, unplug the power cord when the main unit is not in use.

Wi-Fi FUNCTION GUIDE

CONTENTS

SAFETY PRECAUTIONS	15
PART NAMES / SPECIFICATIONS	16
NECESSARY ENVIRONMENT	16
FLOW OF INITIAL SETTINGS	17
HOW TO CHANGE VARIOUS SETTINGS	18
Wi-Fi adapter ON/OFF	18
Wi-Fi connection with a router (with the WPS Button)	18
Link settings with a smartphone.....	19
Initialization of Wi-Fi function	19
Update.....	19
Confirmation of MAC address.....	19
Display Wi-Fi network status.....	20
Wi-Fi connection with a router (without the WPS Button)	
- AP (Access Point) mode -	20
TROUBLESHOOTING	21
INTELLECTUAL PROPERTY RIGHTS FOR THIS PRODUCT	22

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- “iPhone”, “iPod touch”, “iPad” are the registered trademarks or trademarks of Apple Inc.
- The other company names, corporate names, product names mentioned in the handling instructions are trademarks and registered trademarks of each company.

SAFETY PRECAUTIONS

WARNING

In case of remote operation from outside, you may not be able to check air purifier current condition or the area around it and the situation concerning anyone possibly staying there, so please adequately confirm safety before use.

- Make sure the electric plug is fully inserted into a power socket, and there is no dust on the plug or in the socket hole. (It may cause heat, combustion, fire, etc., due to poor contact or contact failure)
- Make sure beforehand that although there are some wind changes, no negative impact will occur to the environment inside the room. (such as.. whether there is anything flying easily in the wind)
Because the wind may cause something to fall down, resulting in fires, wounds, defacement of household belongings.

CAUTION FOR USE

- Agreement with "Terms of Service" is needed to use App.
- App will be periodically revised because of version upgrade.
- Screens and illustrations in this book are for explanation, there are some differences to the real product.
- In case of bad connection, it is expected that smartphone is unavailable to control or the operation is not reflected to the smartphone.
- Locking smartphone display is recommended to avoid wrong operation.
- Although the App is free, communications expenses for download of dedicated App and operation with smartphone or tablet are customer's obligation.

CAUTION FOR Wi-Fi

Caution for usage about electrical wave

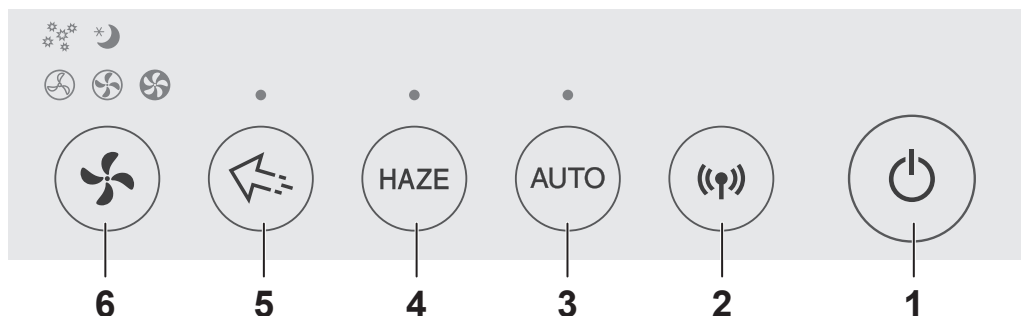
- In case of the usage at the following place, the operation cannot be guaranteed : Near Bluetooth® wireless communications device using the same frequency(2.4GHz) as this product or specified low power wireless device. Also in the place like magnetic field of the device such as microwave oven, or the place with static electricity or the place radio disturbance is occurred, it may not be available temporarily due to weak electrical wave.
- Wireless connection and performance cannot be guaranteed for all routers or housing environment. At the following places, it is likely electrical wave cannot reach or is disconnected: Inside of the building made with concrete, reinforcing steel or metal / near the obstruction / near the wireless communications device applying the same frequency.
- Wi-Fi of this product corresponds to channel 1~13. It's not available to communicate with the routers set up to other channels.

Caution for personal information (related to Security)

- Using Wi-Fi device has the possibility of interception as long as using electrical wave regardless of secret code setting.
- Wi-Fi has the advantage of free LAN connection in the service area because of the communication between this product and the router applying electrical wave. On the other side, intercept of communication or unfair intrusion are likely to occur because electrical wave reaches everywhere in the certain area through the obstructions (e.g. walls).
- Do not connect to the device or network without App to authority.
- The Wi-Fi function of this product should be initialized in case of disposal or handover to a third person.
- The Wi-Fi function of the product should be initialized in case of handover from a third person to avoid illegal access of outsider.

PART NAMES / SPECIFICATIONS

OPERATION PANEL



FRONT DISPLAY



1. Power ON/OFF Button
2. Wi-Fi Button
3. AUTO Button
4. HAZE Button
5. Plasmacluster Ion SPOT Button
6. MODE Button
7. Wi-Fi Indicator Light
8. CLOUD SERVICE Indicator Light
9. DISPLAY

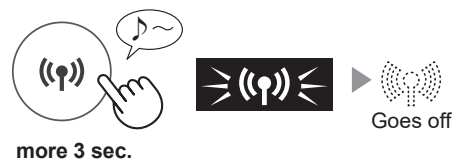
SPECIFICATIONS

Wi-Fi : IEEE802.11b/g/n

Frequency range : 2.4GHz frequency band

How to set Wi-Fi ON / OFF after completing the initial settings

How to turn off Wi-Fi.



How to turn on Wi-Fi again.

Refer to Page 17 and set up the connection with the router again.

- If the product is already registered to your smartphone, you do not need to register again.

NOTE

- Wi-Fi ON / OFF can also be set from "AI : Wi-Fi adapter ON/OFF". (Page 18)
In this case, Wi-Fi connection with the router will be automatically restored.

NECESSARY ENVIRONMENT

Please check everything necessary to connect the air purifier to a Wi-Fi network.

- Internet
- Wi-Fi access point (Router)
The recommended encryption method is WPA2 (AES).
- Portable terminal devices such as smartphones, tablets, etc.
Supported OS (as of October 2021)
smartphones / tablets of Android 4.1 or later iPhones, iPod touch, iPads of iOS 9 or later

FLOW OF INITIAL SETTINGS

① INSTALLATION OF THE APP

1. Install designated App in your smartphone.



- The App can be downloaded from the below transmission service.
Android: Google Play
iOS: App Store

https://cboard.cloudlabs.sharp.co.jp/smartapp_asean/download/air/

2. Connect your smartphone to the router and start the App. Follow instructions on the App.

i. Confirm “Terms of Service”.

ii. Input the SHARP ID.

- In case of not having a SHARP ID, please register a new SHARP ID.

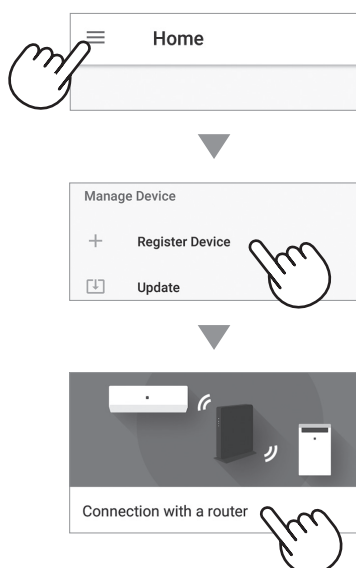
iii. Input a name for your smartphone.

② CONNECTION OF THE AIR PURIFIER AND A ROUTER

NOTE

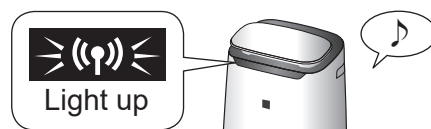
- If you have stealth settings or MAC filtering settings on the router, please cancel them.
- The product network ID is displayed as “AP-SHARP-XX” (where XX is a 2-digit number below the product MAC address).

1. Tap “≡” at the “Home” screen, and select “Register Device” => “Connection with a router”.

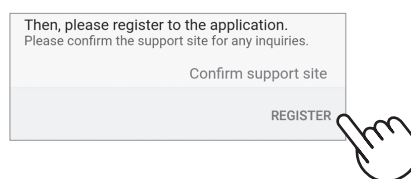


2. Follow instructions on the App.

- If the Wi-Fi Indicator Light lights up after the notification sound, the connection is successfully completed.

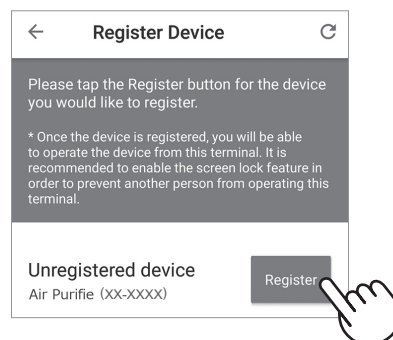


Tap “REGISTER”.

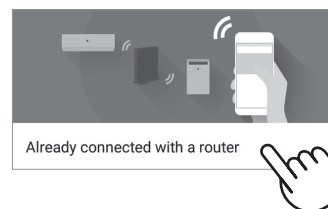


③ CONNECTION BETWEEN THE AIR PURIFIER AND A SMARTPHONE

1. Tap “Register” for the air purifier you would like to register.

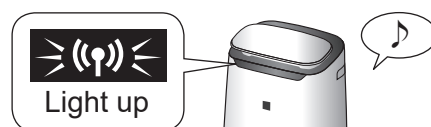


- If you do not see the screen above, tap “≡” at the “Home” screen, and select “Register Device” => “Already connected with a router”.



2. Follow instructions on the App.

- If the Wi-Fi Indicator lights up after the notification sound, the connection is successfully completed.

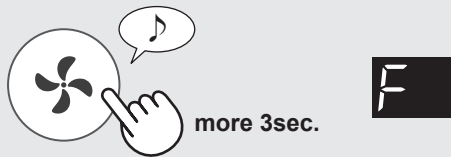


The initial settings are completed.

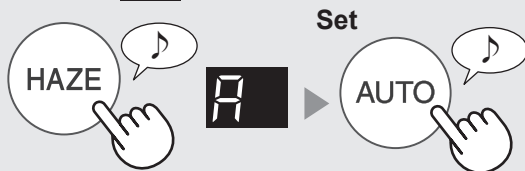
HOW TO CHANGE VARIOUS SETTINGS

You can change the functions in the table below.

1. (with the product OFF)



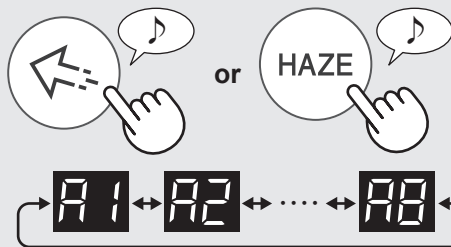
2. Select **A**.



Select "Function number".

Reverse

Forward



No	Function	Page
A1	Wi-Fi adapter ON/OFF	18
A2	Wi-Fi connection with a router (with the WPS Button)	18
A3	Link settings with a smartphone	19
A4	Initialization of Wi-Fi function	19
A5	Update	19
A6	Confirmation of MAC address	19
A7	Display Wi-Fi network status	20
A8	Wi-Fi connection with a router (without the WPS Button) - AP (Access Point) mode -	20

Set



3. Please refer to Page 18 - 20 for the detail of each functions.

4. Finish the setting.



A1 Wi-Fi adapter ON/OFF

1. Select **A1** at the left step.

2. Select "Setting number".



01 OFF: Stoppage of Wi-Fi function

02 ON: start the Wi-Fi function

3. Complete



- When **02** is selected, the square rotates on the display until the setting is completed. When setting is completed, **A2** is displayed.

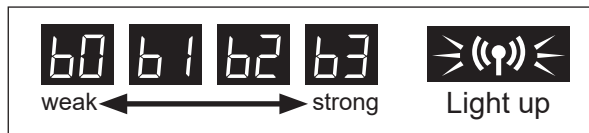
A2 Wi-Fi connection with a router (with the WPS Button)

1. Select **A2** at the left step.

2. After **bP** is displayed, press the WPS (Wi-Fi Protected Setup) Button of the router.



Once connected, receiver level will be displayed.



A connection error is occurring if **bE** is displayed. Please confirm the router and try again.

3. Complete



A3 Link settings with a smartphone

1. Select **A3** at the step on Page 18.
2. After **CP** is displayed, start the App and register the air purifier.



A connection error is occurring if **CE** is displayed. Please confirm the router and try again.

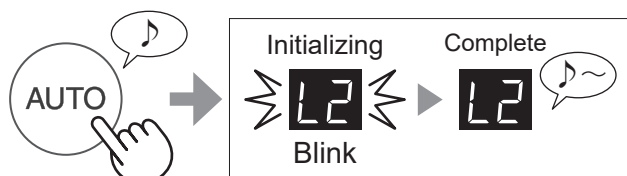
3. Complete



A4 Initialization of Wi-Fi function

1. Select **A4** at the step on Page 18.
2. After **AL** is displayed press "AUTO" button.

A connection error is occurring if **LE** is displayed. Please confirm the router and try again.



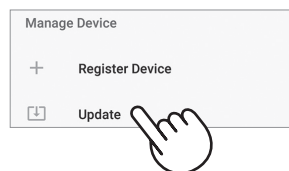
3. Complete



Please delete the device registration from the App when initializing the air purifier which is already connected to the Wi-Fi.

A5 Update

1. Start the App then tap "≡" at the "Home" screen and select "Update".



2. Select **A5** at the step on Page 18.
3. **UP** will be displayed.
4. Follow instructions on the App.

UP will be blinking during update.

A connection error is occurring if **DE** is displayed. Please confirm the router and try again.

5. Air purifier will automatically go off after completion of the update.



Goes off

It may take a few minutes to complete the update.

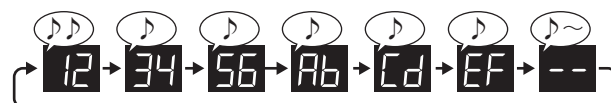
A6 Confirmation of MAC address

1. Select **A6** at the step on Page 18.
2. Press "HAZE" button to display MAC address.



For example:

In case MAC address is "12:34:56:AB:CD:EF".










3. Complete



Display Wi-Fi network status

1. Select  at the step on Page 18.
2. After displaying  for a while, network status of Wi-Fi adapter will be displayed.

	Connection is stable
	Wi-Fi adapter is off ⇒ Please turn on Wi-Fi adapter.
	Router is not registered ⇒ Please perform the Wi-Fi connection with the router.
	Link settings with the App is not performed ⇒ Please perform the link setting with the smartphone.
	Wi-Fi adapter network error ⇒ Please turn off Wi-Fi adapter and turn on again after a while.
	Network error between the air purifier and the router ⇒ Please confirm the network status of the router.
	Network service error ⇒ Please turn off the air purifier and confirm the internet status, then try again.



3. Complete



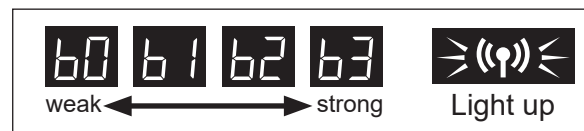
Wi-Fi connection with a router (without the WPS Button) - AP (Access Point) mode -


1. Select  at the step on Page 18.
2. Perform Wi-Fi connection of the air purifier and the router based on the App screen.

Refer to the App for further operations.

 and  blinks while setting the connection between the product and the router.





Once connected, receiver level will be displayed.



A connection error is occurring if  is displayed. Please confirm the router and try again.

TROUBLESHOOTING

Please check the following details, before enquiring or requesting for repairs.

Problem	Items to check
Wi-Fi connection of the air purifier and the router cannot be performed.	<ul style="list-style-type: none"> • Check the specifications of the router in use. • Adjust the router and antenna direction, move the router and antenna closer, and so on. After that, reswitch to turn on the router and perform the initial settings again.
The connection between the air purifier and your smartphone cannot be established.	<ul style="list-style-type: none"> • Are the air purifier and your smartphone connecting to the same router? <ul style="list-style-type: none"> ⇒ Connect the air purifier and your smartphone to the same router. If you still can't connect, try connecting your smartphone to the 2.4GHz band of the router. • Is the total number of smartphones being in use exceeding the maximum number for registration on one air purifier? <ul style="list-style-type: none"> ⇒ The maximum number of smartphones that can be registered on one air purifier is 10. • Is the total number of products (air conditioners, air purifiers, etc.) to be registered with one smartphone exceeding the maximum designated number? <ul style="list-style-type: none"> ⇒ The maximum number of products to be registered with one smartphone is 30.
Remote operation from a smartphone cannot be performed.	<ul style="list-style-type: none"> • Is the Wi-Fi Indicator Light of the air purifier on? <ul style="list-style-type: none"> ⇒ If the Wi-Fi Indicator Light is off, please perform "A1: Wi-Fi adapter ON/OFF" to turn on the product Wi-Fi. (Page 18) • Have the connection between the air purifier and your smartphone been completed? <ul style="list-style-type: none"> ⇒ Set up the connection between the air purifier and your smartphone. (Page 17)
When changing the router	<ul style="list-style-type: none"> • It is necessary to reconnect the air purifier to the router. <ol style="list-style-type: none"> 1. Hold down the "Wi-Fi" Button for 3 seconds to stop the Wi-Fi function. 2. Perform "Flow of initial settings : ② Connection of the air purifier and a router". (Page 17)
When changing the smartphone	<ol style="list-style-type: none"> 1. Delete the registration of the old smartphone from designated App. 2. Use the new smartphone to perform "Flow of initial settings : <ol style="list-style-type: none"> ① Installation of the App, and ③ Connection between the air purifier and a smartphone". (Page 17)
When going to dispose or hand over the air purifier	<ul style="list-style-type: none"> • Perform the following steps, to prevent leak of personal information. <ol style="list-style-type: none"> 1. Delete the registration of the air purifier from designated App. 2. Perform "A4: Initialization of Wi-Fi function". (Page 19)
In case of being handed over from a third party	<ul style="list-style-type: none"> • To prevent unauthorized access from a third party, perform "A4: Initialization of Wi-Fi function". (Page 19)
 Blink slowly	<ul style="list-style-type: none"> • It is one of the following status. <ol style="list-style-type: none"> A. The Wi-Fi connection of the air purifier and a router is in setup. B. The connection of the air purifier and a smartphone is in setup.
 Blink fast	<ul style="list-style-type: none"> • Network error. Please confirm the Wi-Fi network status from "A7: Display Wi-Fi network status". (Page 20)
 Goes off	<ul style="list-style-type: none"> • The air purifier cannot connect to the router. Check the following. <ol style="list-style-type: none"> A. Is the power plug correctly connected? B. Has the Wi-Fi function been stopped? Confirm the Wi-Fi network status from "A7: Display Wi-Fi network status". (Page 20)
One of  to  cannot be selected in the Wi-Fi setting mode. (Page 18 - 19)	<ul style="list-style-type: none"> • In the following cases, one of "A2" to "A6" may not be selectable. <ol style="list-style-type: none"> A. The Wi-Fi adapter is off. B. The connection between the product and the router has not been completed. C. The connection between the product and the smartphone has not been completed. <ul style="list-style-type: none"> ⇒ The Wi-Fi network status can be checked from "A7: Display Wi-Fi network status". (Page 20)

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This file is part of the lwIP TCP/IP stack.

Author: Adam Dunkels <adam@sics.se>

●JSMN

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