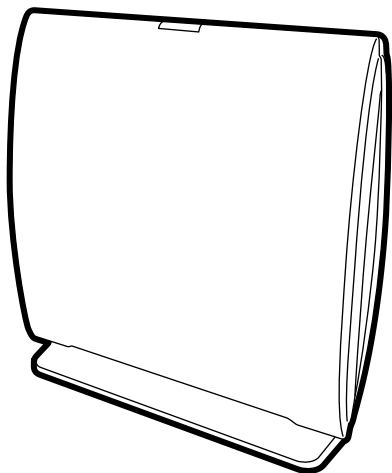


TÖYÖTÖMI



MODEL AC-20

AIR PURIFIER INSTRUCTION MANUAL

English

Thank you for purchasing our product.

- Before using this product, be sure to read this Instruction Manual to ensure proper usage. Please keep this manual for later reference.
- Improper use of this product may result in a malfunction, failure, unexpected accident, or create a potential hazard.

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SAFETY PRECAUTIONS (Please read carefully and follow all instructions.)

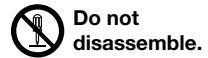
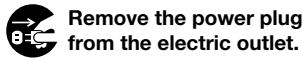
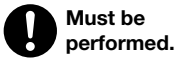
● Items shown here are labeled “⚠ Warning!” and “⚠ Caution!”

Be sure to follow the warnings and cautions as they explain important details regarding safety.

⚠ WARNING Improper use can cause death or serious personal injury.

⚠ CAUTION Improper use can cause personal injury or physical damage.

● Be sure to follow the advice in the instruction manual in order to use this unit properly.



⚠ WARNING

★ Only authorized technicians should disassemble, repair, or modify this product.

- Ignition or malfunction may occur, causing injury.



★ Be sure to remove the power plug from the electrical outlet when performing maintenance. Do not remove or insert the plug with wet hands.

- Failure to heed this warning may result in electric shock or burns.



⚠ CAUTION

★ No other current than AC 220V/230V is allowed to be used.

- When used on anything other than 220V/230V mains, fire or electric shock may occur.



★ No damaged power cord, plug, or loose plug connection is allowed to be used.

- An electric shock, short, or inflammation may otherwise be caused.



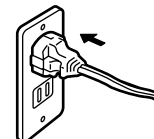
★ Do not damage, break, modify, forcibly bend, yank, twist, or bundle the power cord.

- A fire or electric shock may result if the cord is pinched or modified, or something heavy is placed on it.



★ Remove all dust and dirt from the power plug and insert it completely into the outlet to ensure proper contact.

- Dust and dirt on the plug or incomplete insertion creates the danger of electrical shock and fire.



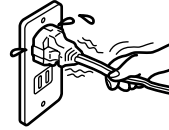
SAFETY PRECAUTIONS (Please read carefully and follow all instructions.)



CAUTION

★When unplugging the power plug, grip the plug and not the cord.

- Do not pull the cord or the wire inside the cord will be damaged resulting in heat or ignition.



★If the Air Purifier is not used for a long time, remove the power plug from the outlet.

- Caked-on dust may cause heat or ignition.



★Do not expose the product to flammable substances or Heavy smoke or incense.

- This may cause a fire.



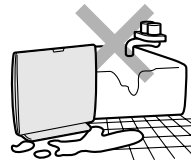
★Do not use the unit where the atmosphere contains oil.

- This may cause a crack.



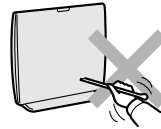
★The Air Purifier is not allowed to be used in such a moist place as a bathroom.

- An electric shock or malfunction may occur.



★Care must be taken not to put your finger or any foreign material into the Suction Grille or the Air Outlet.

- An electric shock or trouble may occur.



★Do not expose your body to the air current from the exhaust ports.

- Such air current may harm human health, especially infants, the elderly, and the sick.



★When using with another combustion appliance, ventilation is necessary.

- The unit cannot add oxygen or remove carbon monoxide. Toxic substances (such as carbon monoxide) contained in tobacco cannot be removed.



★Do not expose the unit to vapor or mist from something like a humidifier or electric shock or failure may result. (Use the unit so that the main unit is not exposed to vapor or mist from a humidifier.)

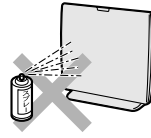


SAFETY PRECAUTIONS (Please read carefully and follow all instructions.)

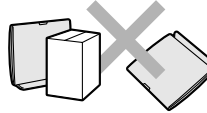
CAUTION

★Do not wipe the unit with benzene or paint thinner.
Also, do not spray insecticides on the unit.

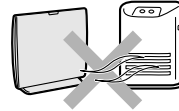
- Cracking, electrical shock and / or fire may occur as a result.



★Do not use the unit with the intake and exhaust ports blocked or obstructed; doing so will result in deformation and/or failure.



★Do not use the unit on or around a space-heating appliance or where it may be exposed to heat. This may cause a failure or deformation.



★Do not use the unit in places with greasy dirt or excessive moisture such as a kitchen or a factory.

- Doing so may cause a failure or degradation of cleaning ability.



★Do not install the Air Purifier on an unstable floor, shelf or wall.

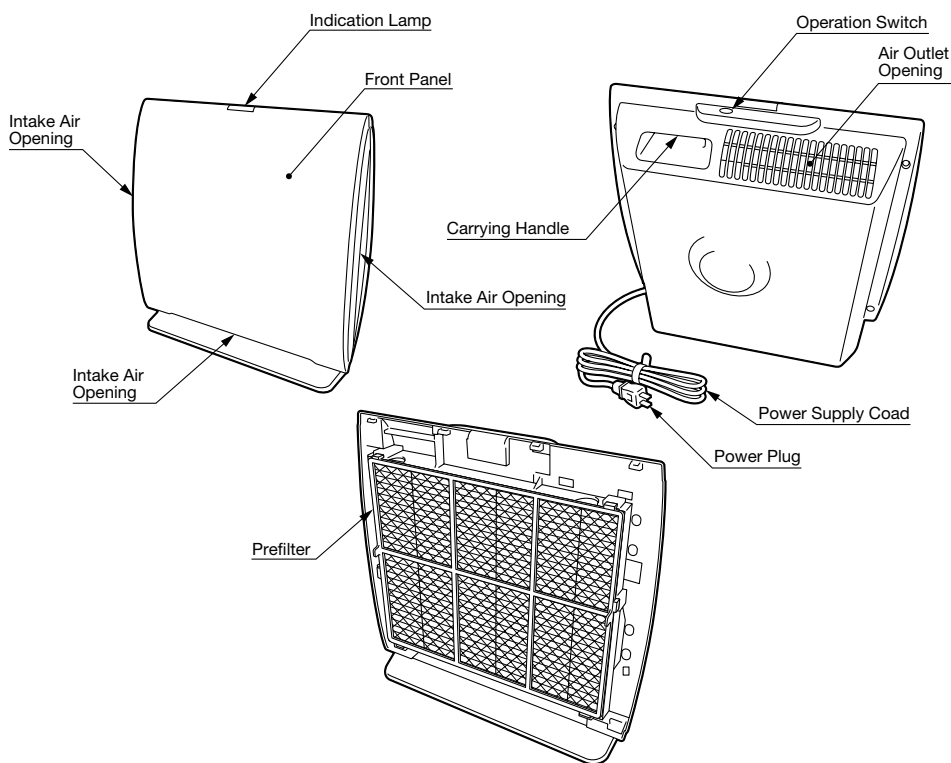
- There is a fear of the Air Purifier falling down.



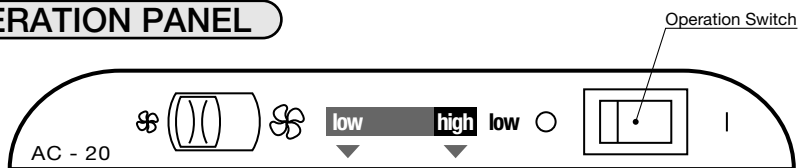
★The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

NAME OF COMPONENT PARTS

MAIN UNIT

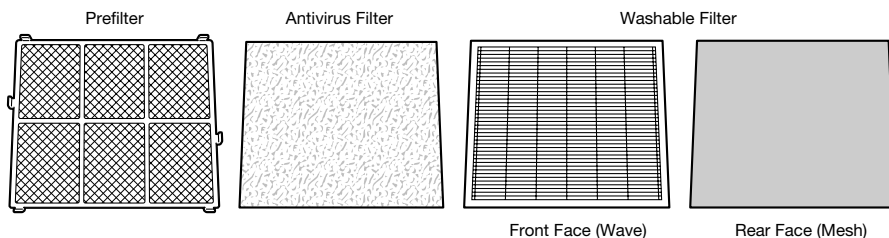


OPERATION PANEL



- Select a desired operation mode pressing the operation switch. (For detail, refer to page 7.)

FILTER UNIT INSIDE OF THE MAIN UNIT



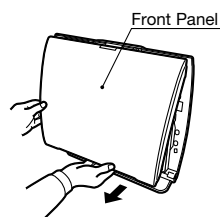
PREPARATION BEFORE USE

NOTE

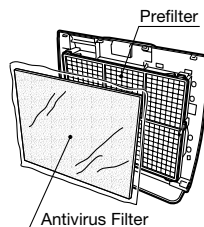
- Front face and rear face of the washable filter are specified. If they are inverted at the installation, sufficient performance cannot be achieved.
- When installing the washable filter, has its mesh face oriented toward the inside of product.
- Life of washable filter is about 10 years, provided it is cleaned once every year. The life may be reduced depending on the cleaning cycle, operating time and place of installation.
- The life may be reduced significantly when the filter has been contaminated by inhaling oil mist or carbides (soot, etc).

1 HOW TO INSTALL THE FILTER (Be sure to assemble the filter before using the Air Purifier.)

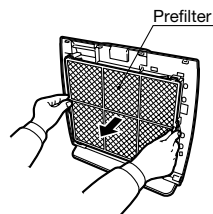
- 1 Pull the front panel toward you and remove it while grasping the intake air opening at the bottom of the main unit.



- 2 Remove the Antivirus Filter from the main unit.



- 3 Remove the Prefilter from the main unit.



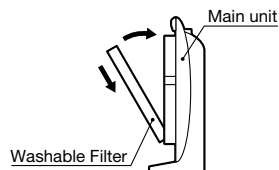
- 4 Remove the washable filter in the bag from the main unit.

NOTE: Take the washable filter out of the plastic bag, before use, and set it on the main unit. If it is installed packed in the plastic bag, it cannot produce the purifying effect.

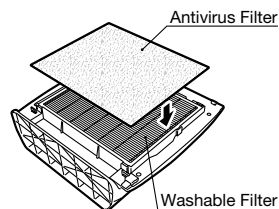
When handling the washable filter, the deodorizing ingredient (black powder) may stick to hands if you touch the deodorizing section (black mesh face) on the filter or when inserting hands in the bag. This is normal because abundant amount of black powder is used to assist the deodorizing performance sufficiently and apply the deodorizing ingredient homogeneously.

PREPARATION BEFORE USE

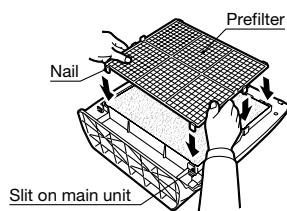
- 5 Take the washable filter out of the bag, and install it on the main unit having the waved face oriented toward the front of main unit and the mesh face to the inside.
It should better to insert first the bottom face of washable filter and then its upper face.



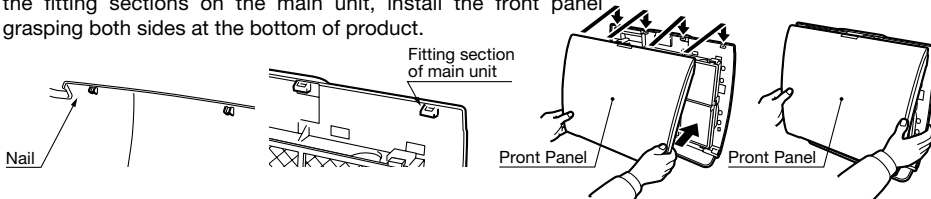
- 6 Take the Antivirus Filter out of the plastic bag. Lay down the main unit and install the Antivirus Filter on the main unit.



- 7 Aligning the nails (6 places) of prefilter with the slits (6 places) on the main unit, install the prefilter.



- 8 Hooking the nails (4 places) at the upper part of front panel on the fitting sections on the main unit, install the front panel grasping both sides at the bottom of product.



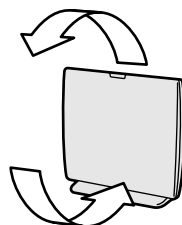
2 HOW TO INSTALL AIR PURIFIER (Choose a place where indoor air circulates well.)

● How to effectively install the Air Purifier

Install the Air Purifier in a high place (on a table) when cleaning relatively small-sized dust such as Heavy smoke. Install the unit in a low place (on the floor) when cleaning large-sized dust such as pollen.

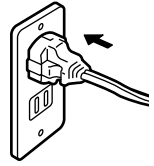
● When installing it on the floor or on a table

Place it on the floor or table approximately 30 cm away from the surrounding walls.

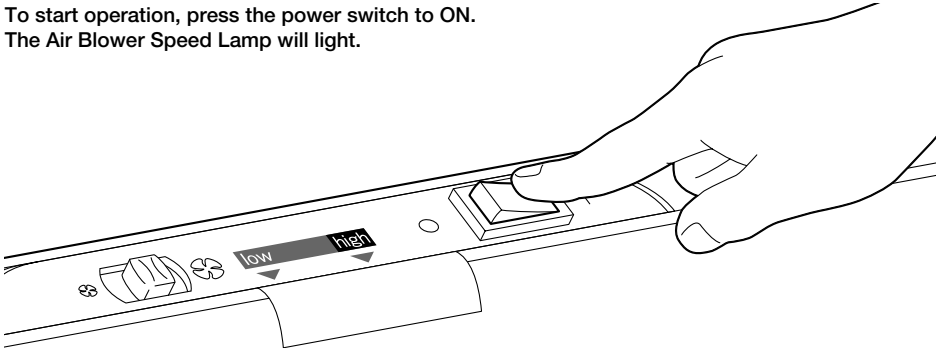


OPERATION PROCEDURE

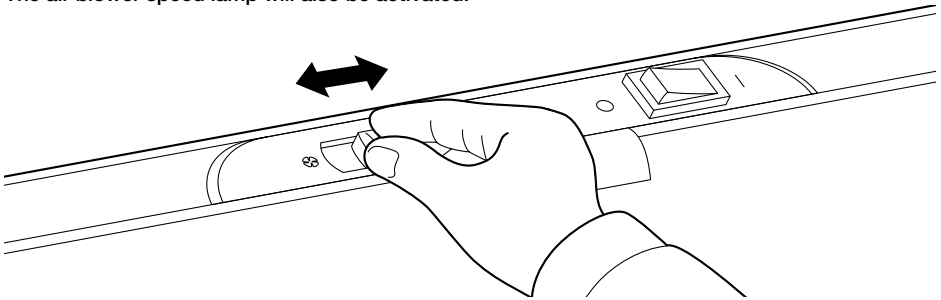
- 1 Insert the Power Plug completely into the outlet to ensure proper contact.



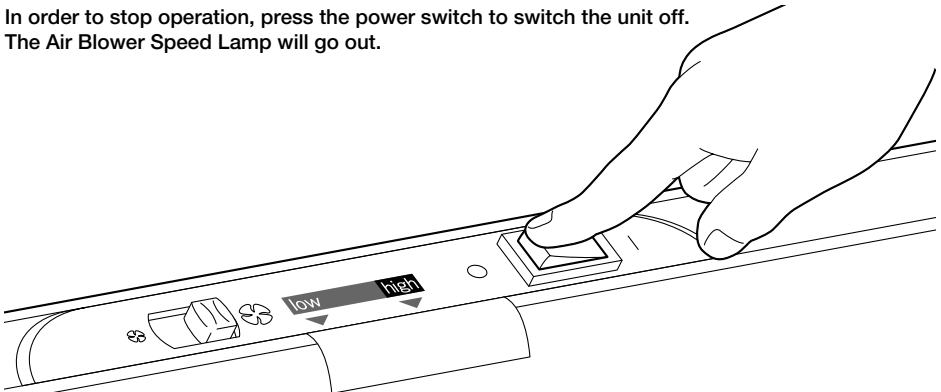
- 2 To start operation, press the power switch to ON.
The Air Blower Speed Lamp will light.



- 3 In order to switch the air blower speed, select "High" or "Low" with the Air Blower Speed Switch.
The air blower speed lamp will also be activated.










- 4 In order to stop operation, press the power switch to switch the unit off.
The Air Blower Speed Lamp will go out.



ROUTINE MAINTENANCE

BEFORE MAINTENANCE

 WARNING	<p>★Only authorized technicians should disassemble, repair, or modify this product.</p> <ul style="list-style-type: none">● Ignition or malfunction may occur, causing injury.	
	<p>★Be sure to remove the power plug from the electrical outlet when performing maintenance. Do not remove or insert the plug with wet hands.</p> <ul style="list-style-type: none">● Failure to heed this warning may result in electric shock or burns.	

 CAUTION	<p>★Don't wash the washable filter with washing machine. Don't dry it with drying machine.</p> <ul style="list-style-type: none">● Otherwise, it could damage the filter.	
	<p>★Don't use detergent when washing the washable filter. Don't scrub or squeeze during washing.</p> <ul style="list-style-type: none">● Otherwise, it could damage the filter.	
	<p>★Sufficiently dry the washable filter. Don't install it when it is damp.</p> <ul style="list-style-type: none">● It could cause trouble, fuming or ignition.	

MAINTENANCE OF THE MAIN UNIT

- When cleaning the main unit, wipe it with a soft cloth soaked in dishwashing detergent and dry with a soft cloth.
- ★Do not use paint thinner, benzene or alcohol to avoid the degradation or discoloration of the body. Wiping the unit with benzen or paint thinner may result in Cracking or Electrical Shock.

Cleaning of front panel

- 1 Use a vacuum cleaner, or the like, to remove dust on and around the air intake opening on the front panel.
- 2 When it is heavily soiled, remove the front panel and wash it immersing in warm water or water or warm water dissolving neutral detergent. Then dry it sufficiently at a shaded area. Finish up by rubbing it with a dry cloth. (Avoid scrubbing strongly with a dry cloth to prevent scratches.)

ROUTINE MAINTENANCE

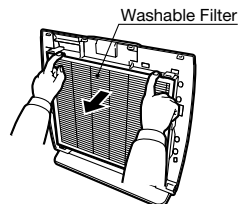
MAINTENANCE OF WASHABLE FILTER

NOTE

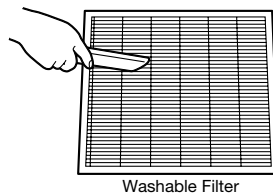
- When it is felt that the deodorizing effect has decreased, maintain the filter.
- It should be washed about once a year.

Cleaning of washable filter

- 1 Removing the front panel in the same way as at the cleaning of prefilter, remove the prefilter, the antivirus filter and the washable filter from the main unit.

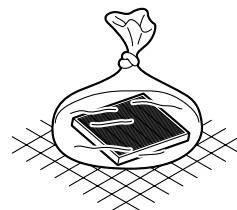


- 2 Remove dust from the waved face of washable filter with vacuum cleaner.



- 3 Wash the filter placing in a polyvinyl bag, or the like, filled with warm water at 40°C or under, and leaving it alone overnight (approx. 6 hours).

- Use a plastic bag with sufficient allowance in size (45 L or larger).
- When washing it by leaving in water, select a place such as kitchen, bathroom or outdoors where there is no problem of water leakage of splash.

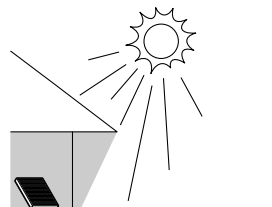


- 4 Cleanse it sufficiently in a plastic bag filled with clean water or warm water at 40°C or under.

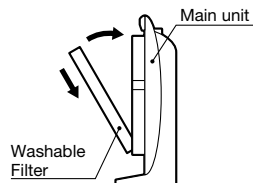
- Unless it is cleansed sufficiently, smell may persist on it.

ROUTINE MAINTENANCE

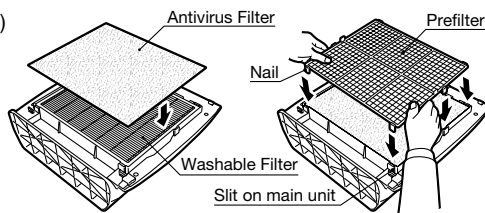
- 5 After washing by immersing in water, dry it sufficiently for a full day (approx. 24 hours) at an airy place under shade.
- Drying speed varies depending on seasons. If it is felt damp still, dry it once more.
 - Wet filter becomes heavy. Protect the washable filter from undue stress when drying it.



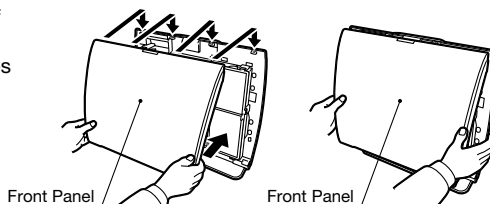
- 6 Having the waved face of washable filter oriented toward the front of main unit and the mesh face to the inside, install the filter on the main unit. It should better to insert first the bottom face of washable filter and then its upper face.



- 7 Install the pre-filter by aligning its nails (6 places) with the slits (6 places) on the main unit after installing the antivirus filter.

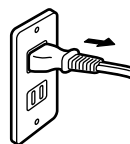


- 8 Hooking the nails (4 places) at the upper part of front panel on the fitting sections on the main unit, install the front panel pressing at both sides of lower part of product.

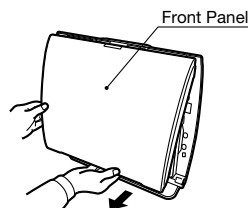


Cleaning of pre-filter

- 1 Stop the operation, and pull out the power plug from the electrical outlet.

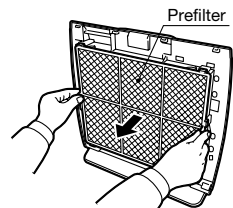


- 2 Holding the intake air opening at the bottom of main unit, pull and remove the front panel to this side.

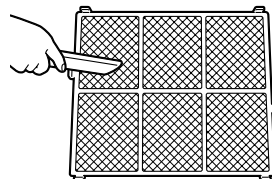


ROUTINE MAINTENANCE

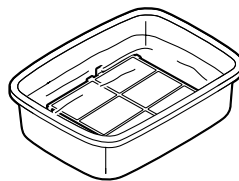
- 3 Holding the knobs at both sides of prefilter, pull and remove it to this side. Remove the antivirus filter.



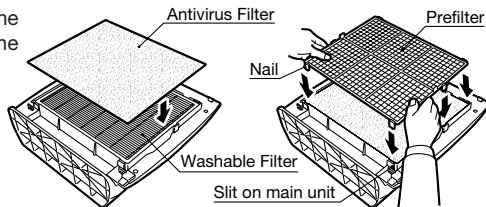
- 4 Remove dust attached to the prefilter with vacuum cleaner.



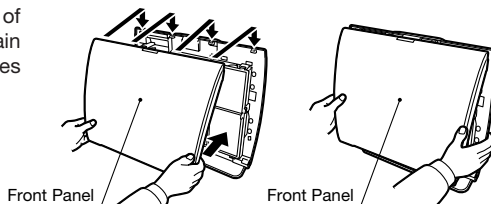
- 5 When it is heavily soiled, wash it immersing in warm water or water or warm water dissolving neutral detergent. Then dry it sufficiently at a shaded area.



- 6 Aligning the nails on the prefilter (6 places) to the slits (6 places) on the main unit, install the prefilter after installing the antivirus filter.

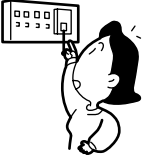
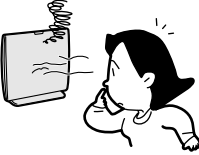
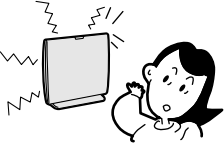


- 7 Attaching the nails (4 places) at the upper part of front panel to the fitting sections on the main unit, install the front panel pressing at both sides of lower part of product.



TROUBLESHOOTING

Since the following cases may not indicate a serious problem, check each of them before asking for repair service.

PROBLEM	CHECK ITEMS
<p>Does not operate.</p> 	<ul style="list-style-type: none">● Is there a power outage?● Is the power plug plugged in firmly?● Has the breaker or a fuse shorted out?
<p>Does not remove odors. Does not remove</p> 	<ul style="list-style-type: none">● Is washable filter dirty?● Is the washable filter installed?● Is the washable filter installed backwards?
<p>Audible Cracking Sound</p> 	<ul style="list-style-type: none">● A crackling sound is often emitted when tiny fibers are taken in and does not indicate a failure. (If this sound is emitted continuously, please contact your dealer.)

SPECIFICATIONS

Power source	AC230V, 50 Hz	
Air flow rate adjustment	High	Low
Power consumption	31 W	21 W
Air flow rate	2.0 m ³ / min.	1.0 m ³ / min.
Applicable floor space	17 m ²	
Cord length	2.0 m	
Exterior dimensions	412 × 126 × 395 mm	
Product weight	3.4 kg	
Accessories	Washable Filter, Prefilter, Antivirus Filter	

TOYOTOMI CO., LTD.

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