Panasonic



Operating Instructions
2 in 1 Air Purifying Dehumidifier

Model No. F-YAV28H

This product is for indoor use only

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Correct use will help you save electricity

Warranty card included Separately

Thank you for purchasing this Panasonic product.

- Please read these operating instructions carefully, in order to use the product correctly and in a safe manner.
- **Please read the "Safety precautions" section (page2~4) carefully before use.**
- Make sure that the correct information is written on the warranty card, including the date of purchase and the name of the distributor. Send the warranty card back within ten days of purchase. Keep the warranty documentation in a safe place along with the operating instructions for future reference.

The 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 .
If the supply cord is damaged , it must be replaced by the manufacturer , its service agent or similarly qualified persons in order to avoid a hazard .
Please disconnect the power plug and empty the tank before doing any maintenance work .

Safety precautions

Always pay attention to these precautions

To prevent users and others bodily harm or property losses, we are explaining the precautions must be observed.

■ Ignoring the symbols incorrect operation, can result in harm or level of damage, described in the following two categories.

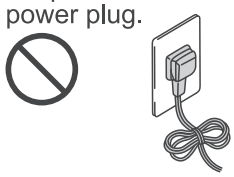
⚠WARNING	This symbol indicates the “Possibility of death or serious injury”.
⚠CAUTION	This symbol indicates the “Possibility of injury or damage to property”.

■ Meanings of symbols that always observed are as shown below.

	This symbol indicates an action that ”requires caution”.
	This symbol indicates a “never do this” action.
	This symbol indicates an “always do this” action.

⚠WARNING

■ Do not do anything that may damage the power cord or power plug.



Do not damage, modify, bend strongly, pull, place heavy objects on top or binding with nylon yam or wire on power plug. If using damaged power cord, may result in electric shock, short circuit, causing fire.

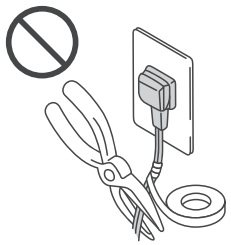
● If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

■ Do not unplug the power plug with wet hands.



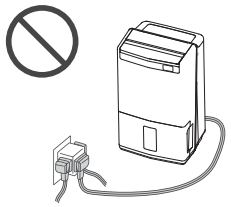
Electric shocks may occur.

■ Avoid the power cord if it is damaged or modified



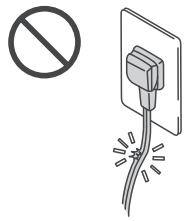
Damage from heavy objects placed on top, heating, or pulling could cause fire or electric shock.

■ Do not use overloaded the rated current of the power outlet and wiring equipment.



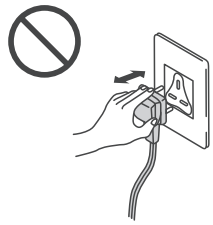
Use too many branch lines will exceed the rated current, it may cause a fire by overheating.

■ Do not use a damaged power cord



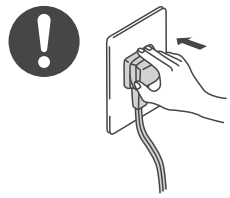
Using damaged power cord, electric shocks or fire may occur. Please consult with the dealership or service station.

■ Do not start or stop the unit by plugging or unplugging the power plug.



It may cause fire or electric shocks by overheating.

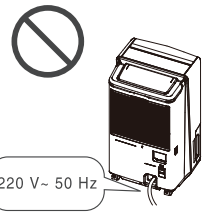
■ Insert the power plug completely



If the power plug is not inserted securely, fire due to overheating may occur.

● Do not use damaged power plugs or loose wall sockets.

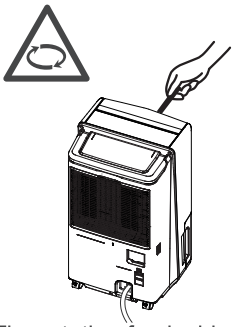
■ Do not use the voltage other than as specified for unit.



It may cause fire or electric shocks by overheating.

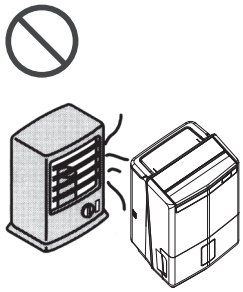
⚠WARNING

■ Do not insert fingers or other objects into the air inlet or outlet.



The rotating fan inside the unit could cause injury.

■ Do not place the unit near a heater.



Plastic parts may melt and cause fire.

■ Never try to repair the unit by yourself.



Fire or electric shock may occur.

● Please consult the purchasing dealership or service station for repairs.

■ Switch off and then unplug out the power plug when error occurs (smoke etc.)

- Incorrect On/Off operations.
- Switch electric leakage or fuse burned frequently.
- Power cord or power plug heats up abnormally.
- Burning smell or abnormal noise during operation.
- Water leakage from the unit.
- Other abnormal faulty condition.

It may cause fire or electric shock by overheating.

● Please consult the purchasing dealership or service station.

■ Do not unplug roughly.



Unplug roughly may damage the power cord, cause electric shock, short circuit fire.

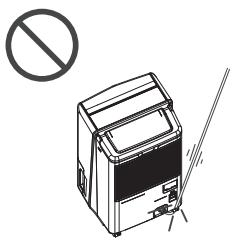
■ Periodically clean the dust and dirt on the power plug.



If dust accumulates on the power plug, humidity may cause damage to insulation and may result in fire.

● Unplug the power plug and wipe it with dry cloth.
If not using the unit, unplug the power plug.

■ Do not stretch the power cord.



It may cause short circuit or broken wires (which may cause fire or electric shock.)

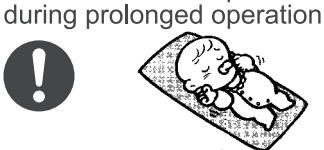
■ Do not pull on the power cord when carrying or storing the unit.



It may damage the wires inside the cord, and fire or electric shock may occur.

⚠CAUTION

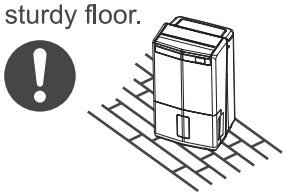
■ Monitor indoor temperature during prolonged operation.



During operation, heat from the unit may cause indoor temperature to rise, operating in closed room may cause discomfort.

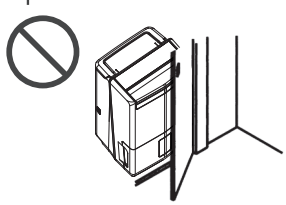
● Pay particular attention if infants or the elderly are present.

■ Place the unit on level and sturdy floor.



If the unit tilts, water will overflow, and wet the property potentially causing fire or electric shock.

■ Do not use in confined spaces such as closets.



If there is insufficient ventilation, overheating and fire may occur.

■ Do not operate in areas where water may be easily splashed onto the unit.



Fire or electric shock may occur

■ Do not use unit near flammable gas.



If flammable gases permeate the surrounding space, it may cause fire.

■ Do not use in places exposed to direct sunlight, wind or rain.



Resulting heat may cause fire or electric shock.

Safety precautions

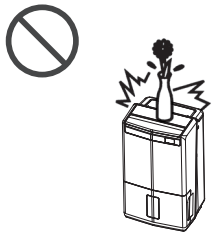
⚠CAUTION

■ Do not use in place where there are artworks or academic documents.



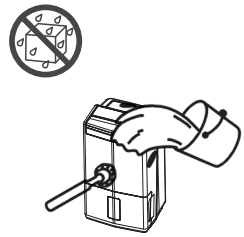
Deterioration of stored articles may occur.

■ Do not place flower vases or other water container on top of the unit.



Water may spill into the unit and fire or electric shock may occur.

■ Do not wash the Dehumidifier directly with water.



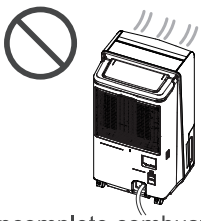
Water leakage may cause electric shock.

■ Do not clean your product by spraying insecticides to it or wiping it with benzene or thinner.



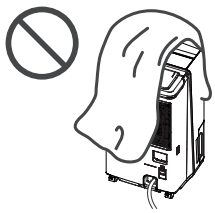
Fire, Electric shock, damage to household items caused by water leakage may occur.

■ Do not place any heat or flame producing instrument in air outlet of the unit.



Incomplete combustion may cause carbon monoxide poisoning.

■ Do not cover the air inlet or air outlet with cloths or towels.



Air circulation will decrease and overheating or fire may occur.

■ Do not sit or climb on the unit.



You may fall over, and injury may occur.

■ Do not move or transport the unit by holding the louvers.



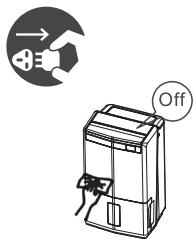
The unit may fall down and injury may occur.

■ When moving the Dehumidifier, turn off the unit and empty the water in the water tank.



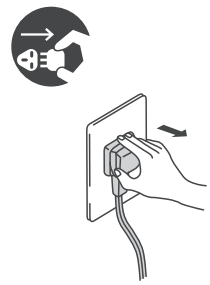
Leaked water may damage the household items and property damage even cause accident.(People may injured and caused fire or electric shock.)

■ When the unit is to be cleaned, switch off and unplug.



The high-speed rotation of the fan inside may cause injury.

■ If unit will remain unused for a long period, unplug the power plug, for safety.



Accumulation of dust and foreign objects may lead to heat and fire may occur.

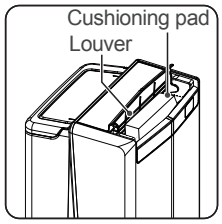
■ After prolonged use, perform periodic inspection.



Particularly the air filter and drains should be checked routinely to avoid overheating and leakage, resulting in house fires and items wetted.

Preparation

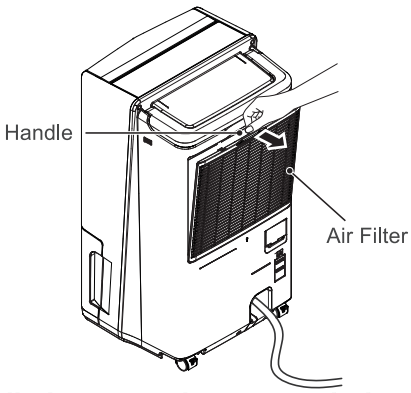
■ **Before using, please remove the cushioning pad under the louvers (otherwose, the airflow will be reduced, resulting in decreased.)**



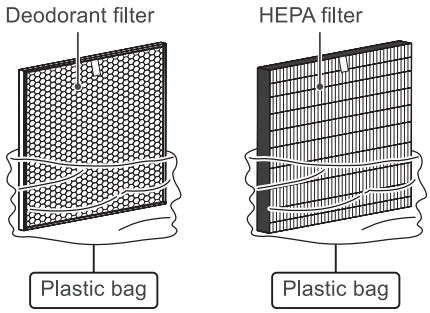
Filter installation

1 Remove the air filter

- Pull the handle forward

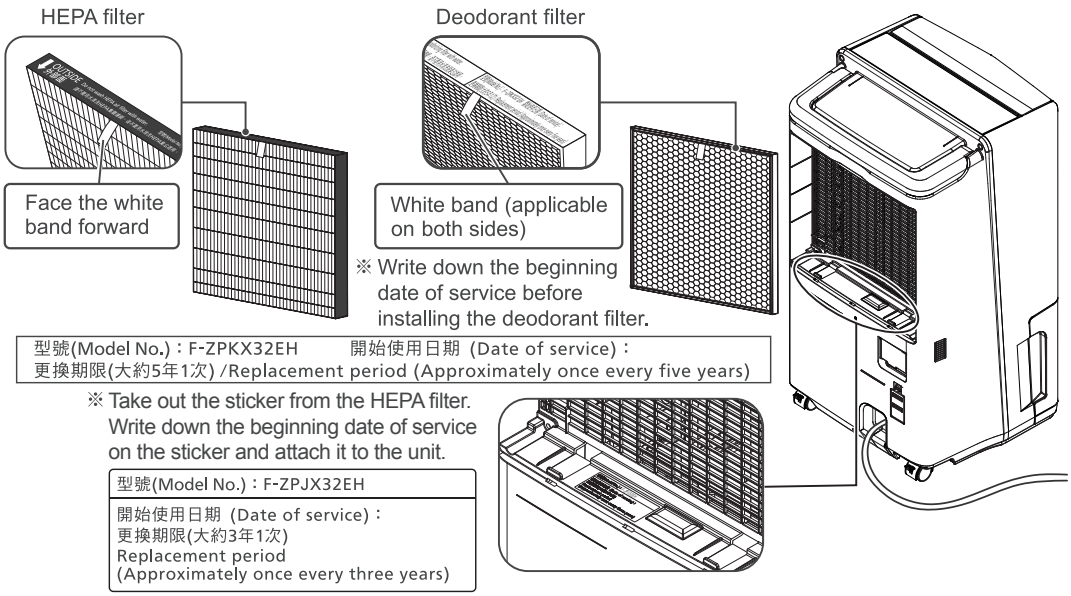


2 Take (2 types of) filters out from the plastic bags.



※ The HEPA filter is pre-installed in the unit at the factory, while the deodorant filter is placed with the Operating Instructions.

3 Installation procedures: attach the deodorant filter first, and then attach the HEPA filter.



※ Write down the beginning date of service before installing the deodorant filter.

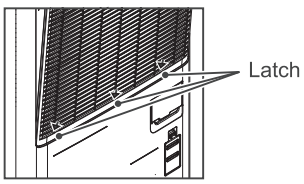
型號(Model No.)：F-ZPKX32EH　　開始使用日期 (Date of service)：
更換期限(大約5年1次) /Replacement period (Approximately once every five years)

※ Take out the sticker from the HEPA filter. Write down the beginning date of service on the sticker and attach it to the unit.

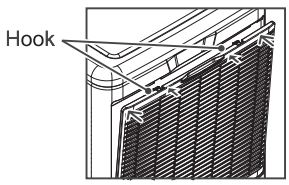
型號(Model No.)：F-ZPJX32EH

開始使用日期 (Date of service)：
更換期限(大約3年1次)
Replacement period
(Approximately once every three years)

4 Install the air filter

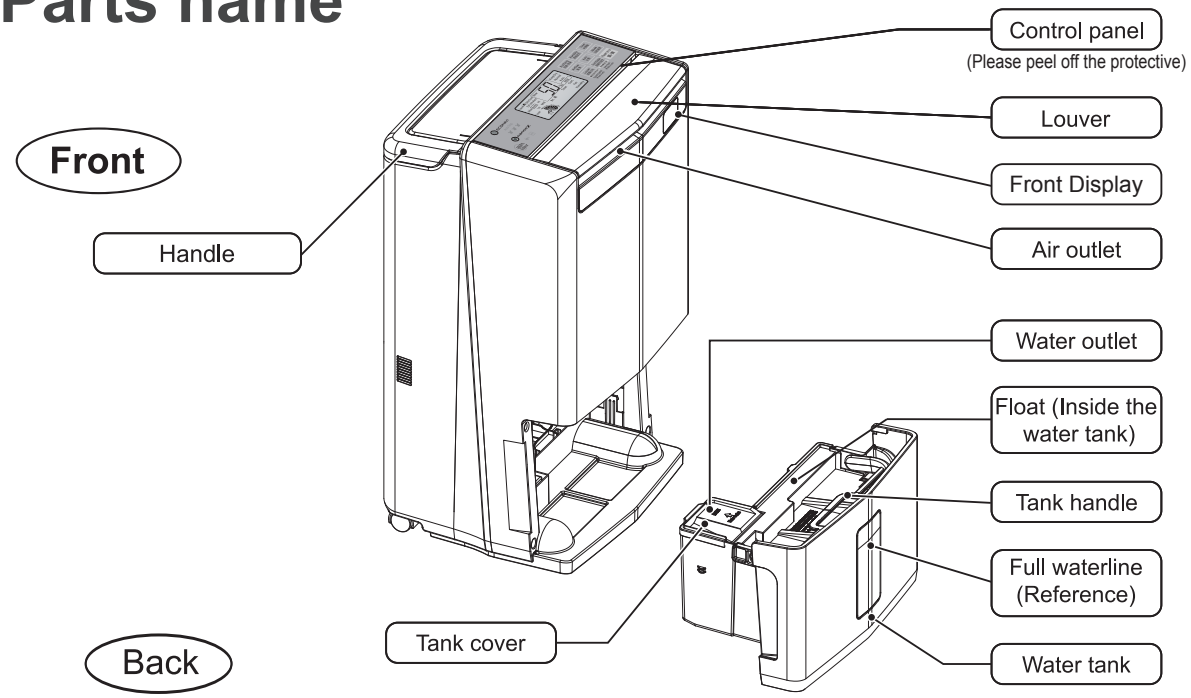


① Insert the three latches on the bottom of the filter into the holes on the unit.



② Press the top of the filter down to engage the two hooks.

Parts name



CAUTION

- Do not move roughly on the floor or carpet, also when tank is filled with water.(May cause the unit to fall or spilled water even cause accident or property damage.)



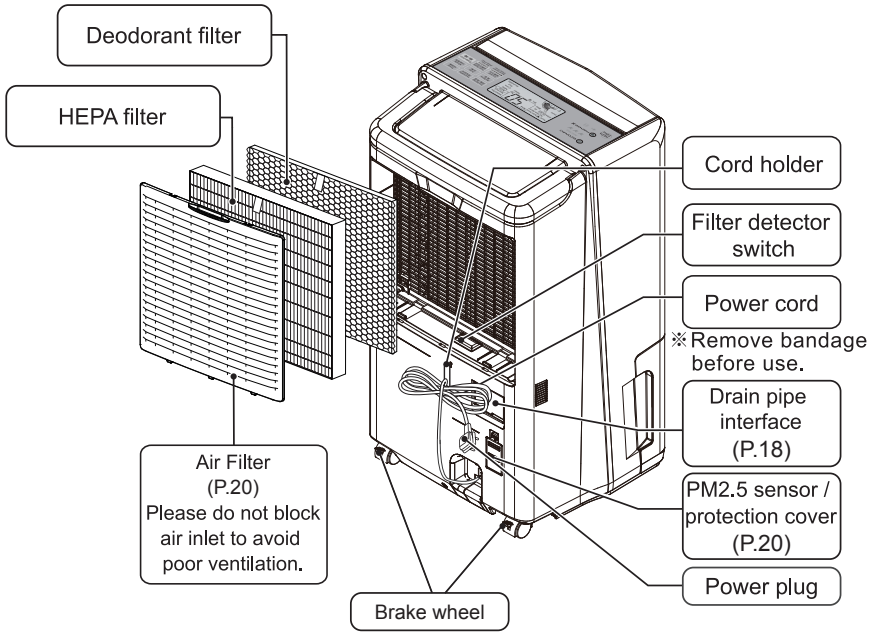
Where to use

- At least 20 cm distance from the wall. (Walls and furniture near unit, may be stained by electrostatic.)
- At least 1 m distance from any TV, radio (To prevent screen interference, noise)

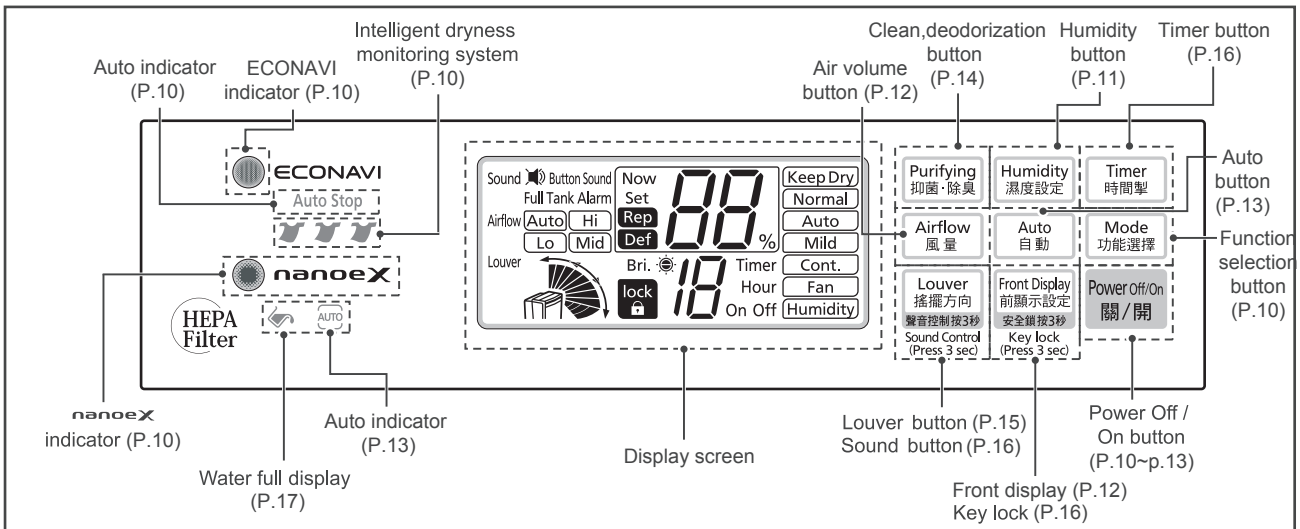
Note

Casters without brakes
(2 at the bottom/front of the main body)
Casters with brakes
(2 at the bottom/rear of the main body)

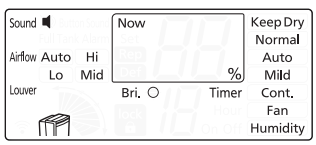
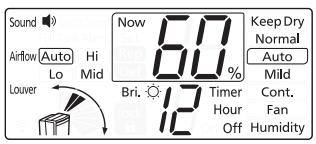
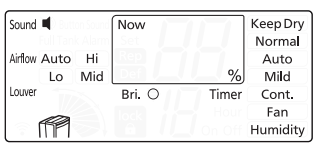
The water tank may contain water residue at time of purchase. This is from final product testing at the factory and is not due to a defect.



Control panel



LCD indicator

Unpowered		Unpowered
Powered on		Press any button when the power is on, selected function will be displayed. The LCD backlight lights up, and the backlight will automatically go off after 15 seconds.
Full (water display flash)		The LCD indicator turns orange for 15 seconds then goes off. The water display and indicator keeps on flashing. If the water full alert is ON, the buzzer beeps for 6 seconds together with the orange indicator.

How to use combination key

In standby	Factory setting	Press the Front Display 前顯示設定 安全鎖按3秒 + Humidity 濕度設定 buttons for about 7 seconds.
	Filter life query	Press the Front Display 前顯示設定 安全鎖按3秒 + Airflow 風量 buttons for about 3 seconds.
	Security lock setting	Press the Front Display 前顯示設定 安全鎖按3秒 button for about 3 seconds.
Running	HEPA filter cleaning and reset	Press the Purifying 抑菌·除臭 button for about 3 seconds.
	HEPA filter replacement and reset	Press the Airflow 風量 + Timer 時間掣 button for about 3 seconds.
	Activated carbon filter replacement and reset	Press the Purifying 抑菌·除臭 + Airflow 風量 button for about 3 seconds.
	Sound setting	Press the Louver 搖擺方向 聲音控制按3秒 button for about 3 seconds.
	LED light brightness setting	Press the Humidity 濕度設定 button for about 3 seconds.
	Security lock setting	Press the Front Display 前顯示設定 安全鎖按3秒 button for about 3 seconds.

Note

Display of humidity

＊It displays "Hi" if the humidity is higher than 85 % and display "Lo" if the humidity is less than 24 %.



Repair

＊When the [Rep] indicator flashes and error code "11" prompts, check the following:

- When unit is tipped over.
  ① Unplug the power plug.
  ② Set the unit back upright (wipe away any spilled water).
  ③ Let the unit stand for half a day or more without using it. (To dry the unit inside completely in case any water has spilled inside)
  ④ Insert the power plug again and restart the unit.
- Does the unit tilt?
  → Unplug the power plug and then reconnect it.

＊It indicates unit failure when the [Rep] indicator do not flashing (For example)

Case Rep + 02 %



There are 13 error codes.

- Please unplug the power plug immediately, and consult service station to repair the unit.

Full

＊When the [ ] display and the Full Tank indicator flash, it indicates that the tank is full of water. All functions won't be able to work if the tank remains full.

Defrost

＊When the [Def] indicator is flashing, the unit is defrosting.
→Only the [Power Off/On 開/開] works. Other buttons will be disabled.

Mildew prevention

＊**Power Off mildew prevention:**

＊The product may run 3 minutes in fan mode after operation stopped (by manual or timer settings) to dry its internal side for mildew prevention. Press Power Off/On 開/開 key when in this mode to cancel this function.

＊This function may not get enabled due to compressor operation time.

Protection

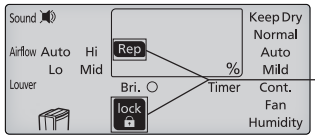
- To prevent you from forgetting to swtich off the unit, operation will stop automatically if no button is pressed for 24 hours.
- If room temperature is higher than 32 °C, the air volume will increase automatically in order to protect the unit.
- The unit should be operated within an indoor temperature range of 7 ~ 40 °C. Operation out of this range may cause some undesired problem.
- The unit will stop operation when power failure occurs, and return to standby mode after power recovery. To ensure compressor life, do not operate within 3 minutes after switching off the unit.

Safety protection

- In case there is foreign matter, water, or dust entered your product or you press and hold on or more of its keys for 17 seconds the safety protection mode begins. Its original use status retains. No other key, except the " Power Off/On 開/開 " key, functions in this mode.

＊The safety protection mode may run up to 10 hours and then auto power off (or by pressing " Power Off/On 開/開 " key).

＊Once " lock " and " Rep " indicator light up, remove any foreign matter, water, and dirt or your hand from the product to exit this mode.



→ Lights up (safety protection mode)

Comfort

- The dehumidifier is used for daily life, such as the removal of unplesant humidity and laundry drying. However, if ambient humidity is under 50 %, unit cannot help maintain a comfortable humidity environment.

Factory default

- Standby
  Press Front Display 前顯示設定 安全鎖開3秒 and Humidity 濕度設定 simultaneously for about 7 seconds to activate. If "00" is displayed in Humidity part, the unit is reset to the factory default.

＊After resetting to the factory default, all operating modes will be restored to their default settings.

Memory function

- When you stop and start the unit, it will return to the previous mode.
- If you disconnect and connect the plug again, the unit will return to the previous mode. (Except timed settings)

Air detector indicator (Displayed on the "Front Display")

- The unit has to warm up at initial startup, the PM2.5 sensor and the Front Display be accurate in the first 3 minutes.
- If the deodorant filter and HEPA dust filter are not installed on the body, the value detected by the PM2.5 sensor may be inaccurate.

PM2.5/PM1.0 detection

- The PM2.5 table is provided in accordance with the PM2.5 index and health messages of the UK Daily Air Quality Index (DAQI).
- The index and health messages of the UK Daily Air Quality Index (DAQI) are for outdoor activities, while the unit is designed for indoor uses only.

Fine particulate matters (**PM2.5**) index and health messages

Index	1	2	3	4	5	6	7	8	9	10
Air Pollution Banding	Low	Low	Low	Moderate	Moderate	Moderate	High	High	High	Very High
PM2.5 Concentration ($\mu g/m^3$)	0-11	12-23	24-35	36-41	42-47	48-53	54-58	59-64	65-70	≥71
Accompanying health messages for the general population	Enjoy your usual outdoor activities.			Enjoy your usual outdoor activities.			Anyone who experiences eye pain, cough or sore throat should reduce outdoor activities.			Anyone who experiences eye pain, cough or sore throat should reduce strenuous physical activities, particularly outdoors.
Accompanying health messages for at-risk individuals	Enjoy your usual outdoor activities.			Adults and children with lung problems, cardiovascular disease and heart problems, who experience symptoms, should reduce strenuous physical activities, particularly outdoors.			1. Adults and children with lung problems, cardiovascular disease and heart problems should reduce strenuous physical activities, particularly outdoors. 2. Older people should reduce physical exertion. 3. People with asthma may find the need to use their reliever inhaler more often.			1. Adults and children with lung problems, cardiovascular disease and heart problems, as well as older people, should avoid strenuous physical activities, particularly outdoors. 2. People with asthma may find the need to use their reliever inhaler more often.

Introduction of particulate matters (PM2.5) index

(1) Particulate matters are the main factors that contribute to poor air quality in autumn and winter, i.e. the prevailing Northeast Monsoon seasons. In particular, fine particles whose diameter is less than 2.5 μm can be a health hazard. For more information about the fine particulate matters (PM2.5) air quality index, please refer to the UK Daily Air Quality Index (DAQI).

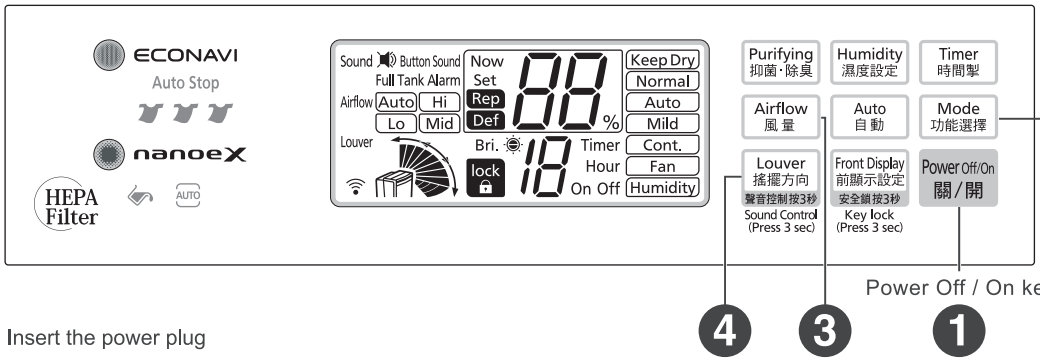
(2) The index is divided into 10 levels and demonstrated with different colors as per the fine particulate matters (PM2.5) indicator of the UK Daily Air Quality Index (DAQI). For example, at-risk individuals should be careful with their outdoor activities and physical conditions when the PM2.5 concentration is up to 36 μg/m3 (level 4), while the general population should reduce their outdoor activities when the concentration is up to 54 μg/m3 (level 7).

- The PM2.5 indicator will display 0 $\mu g/m^3$ ~ 500 $\mu g/m^3$
- If the air quality detected by the PM2.5 ≤35 ($\mu g/m^3$), the indicator lights in green.
- If the air quality detected by the PM2.5 36-53 ($\mu g/m^3$), the indicator lights in orange.
- If the air quality detected by the PM2.5 54-70 ($\mu g/m^3$), the indicator lights in red.
- If the air quality detected by the PM2.5 ≥71 ($\mu g/m^3$), the indicator lights in purple.
- If the air quality detected by the PM2.5 ≥500 ($\mu g/m^3$), the indicator just indicate 500.
- The concentration detected by the PM2.5 sensor may be different from the data detected by other devices.
- The result may differ with other equipment.
- The nanoeX function will be activated automatically when the PM2.5 sensor indicator lights in purple, red and orange.
- The color of PM1.0 changes according to the color currently displayed by the PM2.5 sensor.

Smell detection

- The smell detection is an automatic inspection function. The smell detection indicator will change the display colors when the detector determines a poor air quality. (The colors of the smell detection indicator will change with the air volume only with the air volume selection is in the Auto mode.)
- The indicator lights in red when the smell level is high.
- The indicator lights in orange when the smell level is normal.
- The indicator lights in green when the smell level is low.
- The nanoeX function will be activated automatically when the smell detection indicator lights in red and orange.
- The smell detection range: cigarette smoke, burning incense, cooking smell, pet smells, cosmetics, alcohol and mist sprays.

Operation mode



1 Insert the power plug

Turn on the unit

Power Off/On 關/開

- The factory default settings of the dehumidifier is " Cont. " and the air volume is " Auto ".

2 Mode 功能選擇 — Press to select

- When the clothes drying is started, the air volume display is forced to be in the Auto mode. At this time, system sound three 3 beeps if you try to press Airflow 風量 button.

3 Air volume selection → P.12

Airflow 風量

4 Select the Air direction → P.15

Louver 搖擺方向 聲音控制按3秒

To stop operation

Power Off/On 關/開

- The product may run 3 minutes in fan mode after operation stopped to dry its internal side. (Power off mildew prevention P.8)
- Please unplug the power plug at least 3 minutes after stopping the operation.

To use timed power on in the standby mode (P.16)

Timer 時間掣

To use timed power off during operation (P.16)

Timer 時間掣

- The ECONAVI Indicator, Auto stop Indicator, Intelligent dryness monitoring system will turn off in this mode.

When the Full Tank indicator is flashing (P.17)

- Operation will stop→Please empty the tank.

Keep Dry

If user is not satisfied with the dry condition

- After completion of laundry drying. [Keep Dry]+ [Normal] indicators OFF, Humidity Intelligent dryness monitoring system will come on, and continues automatic operation.
- The ECONAVI Indicator and Auto stop Indicator lights off and Intelligent dryness monitoring system lights up in this mode.

Normal

About Laundry mode

- It can detect the changes of temperature and humidity, so the unit will operate in accordance with the quantity of laundry and the prediction of dry condition.
- For more information → refer to “About Laundry mode” (P.21)

Auto

To keep humidity at a comfortable level

- Humidity sensor detects the ambient level and keeps indoor humidity at the most suitable level for human body. However, the feeling of humidity varies from person to person; the “humidity setting” is available for adjusting the humidity if needed.
- The dehumidiffer operates during high ambient humidity, and stops at low ambient humidity.
- Humidity level will be adjusted automatically according to the indoor temperature.

Mild

Maintain the humidity level (approximately at 65%)

Cont.

To force Continuous Dehumidifying (when humidity level cannot be controlled)

Fan

To clean and restrain becteria (dehumidifying is stopped at this time)

- The unit adopts HEPA and deodorant filters to provide the effects of bacterial resistance, dust removal and deodorization.

* When the filter is detected by the filter detector, the Fan will light up as you press down the Function selection. If no filter is installed, the Fan will not light up when the Function selection button is pressed. The Fan will light up when only the air purifying function is in operation. The air velocity may vary depending on the use of the HEPA filter.

Intelligent dryness monitoring system ( )

- This function is valid for cloth drying.
- It tells drying status of cloths.

Laundry starts
↓
Approximately 1/3 dryness
↓
Approximately 2/3 dryness
↓
Laundry completed (flash)
↓
Operation completed

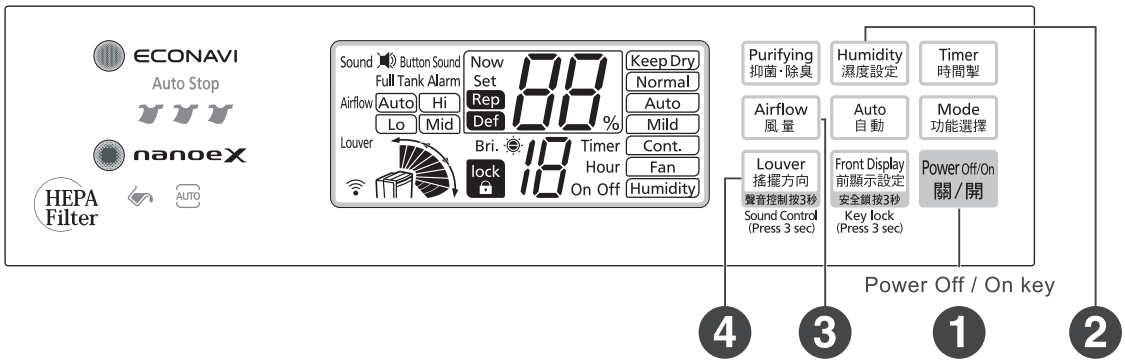
※ After laundry completed, in order to prevent humidity returns to the laundry, please maintain laundry condition. (Keep Dry operation)

- Based on type of laundry, quantity, and method of hanging, and room condition, etc, there may be variation of dry conditions.
- If user is not satisfied with the dry condition, [Keep Dry] Function may be chosen for further drying.

nanoeX indicator

- To refresh clothes with deodorization and sterilization nanoeX function will be enabled automatically by system in laundry mode. nanoeX The LED indicator lights up and cannot be cleared manually. The system beeps two times if you try to press the " Purifying 抑菌・除臭 " button.

To set humidity

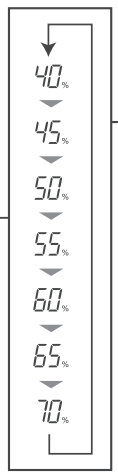


1 Insert the power plug

Turn on the unit

Power Off/On 關/開

2 Humidity 濕度設定 — Press to select



Want to set your desired humidity.(The factory default is 40 %)

- The word “Set” and your set humidity will be displayed for around 5 seconds when you set your desired humidity by pressing the “Humidity” button, then it will back to display the current humidity with the word “Now”.
- Humidity sensor detects the ambient level and keeps indoor humidity at the set humidity.
- The unit operates during high ambient humidity, and stops at low ambient humidity.

3 Air volume selection → P.12

Airflow 風量

4 Select the Air direction → P.15

Louver 搖擺方向 聲音控制按3秒

When the Full Tank indicator is flashing (P.17)

- Operation will stop → Please empty the tank.

To stop operation

Power Off/On 關/開

- The product may run 3 minutes in fan mode after operation stopped to dry its internal side. (Power off mildew prevention P.8)
- Please unplug the power plug at least 3 minutes after stopping the operation.

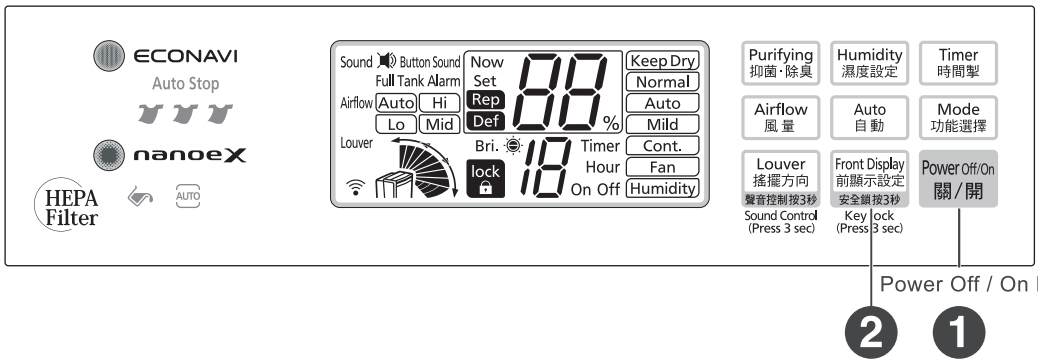
To use timed power on in the standby mode (P.16)

Timer 時間掣

To use timed power off during operation (P.16)

Timer 時間掣

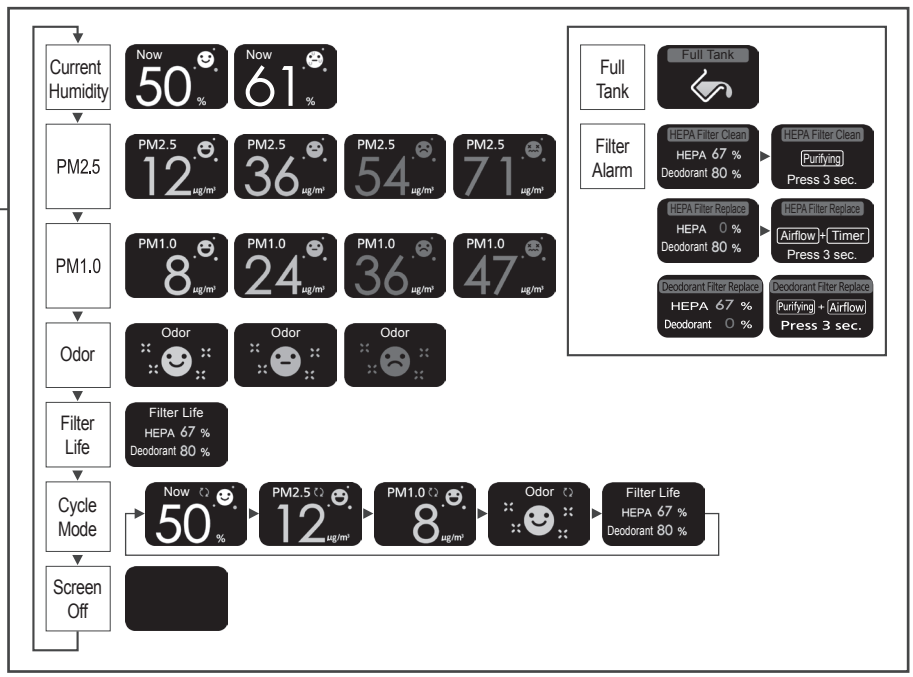
Front display switching



1 Insert the power plug
Turn on the unit

2 Press to select



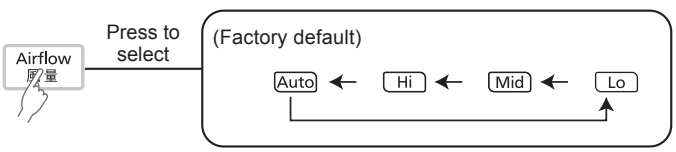


Air volume selection (Operation mode / Humidity settings)

(Select the operation mode according to P.10-P.11 before setting)

■ To change air volume

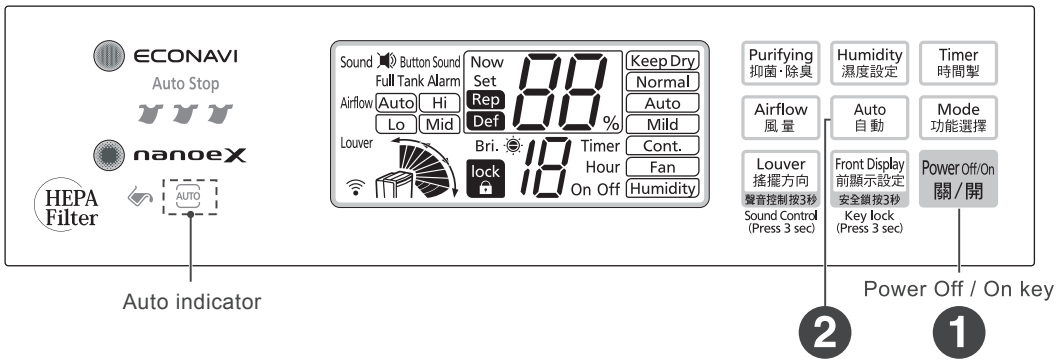
- The air volume can only be selected in the “Operation mode” and “Humidity setting” modes.



※ The airflow can adjust when in Fan mode. Only Airflow in Auto mode, the air flow will be changed by the volume of PM2.5 and maloder.

■ Yoru product may enter protection mode with air volume and direction in case room temperature goes above 32˚C. (System sounds three beeps if you try to press air volume and direction key)

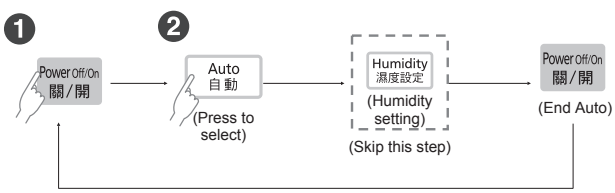
Auto mode



About Auto mode

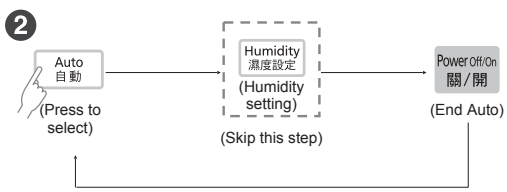
- Intelligently determine the best mode through a variety of smart sensing devices.
- In Auto mode, when the humidity reaches the set value, and the PM2.5/PM1.0 and odor reach the green level (indicator level 1), after the machine runs for a period of time, Auto mode will Automatically enter standby mode. The Auto indicator will keep flashing to remind the consumer that the Auto mode has not yet been exited, and will start again when the humidity is higher than the set level or the PM2.5/PM 1.0 and the odor reach the orange light level. (During standby mode, in order to obtain the latest air quality conditions, the fan will run for 3 minutes for every 20 minutes.)
- In Auto mode, the front display will be in the cycle mode; the front display will be turned off if it is in standby mode.
- In the Auto mode, the air direction is Auto; if it is in the standby mode, the air direction panel will be turned off.
- In the Auto mode, nanoeX is forced to start; if it is in standby mode, nanoeX will be turned off.
- In the Auto mode, full water reminder ON/OFF can be set.
- In the Auto mode, press the "Power Off/On" button to end the Auto mode or switch to other functions.

To use Auto during operation



- Press the Auto 自動 button in the standby mode (the Auto indicator flashes).
- The humidity setting lights up; press the Humidity 濕度設定 button to set the humidity.
  - ★If the humidity is set, wait for about 3 seconds and automatically enter the Auto mode.
  - ★If no humidity is set, it will be automatically set with the factory humidity setting (or the previous humidity setting).
- After entering the Auto mode, the Auto indicator will be on, and other buttons (except the humidity setting) cannot be operated.
- To leave the Auto mode, press Power Off/On 關/開 to leave Auto mode.

To use Auto during standby

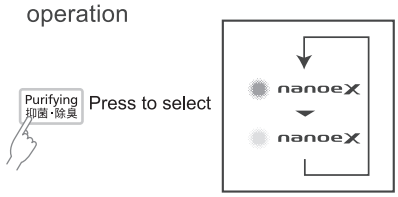


- Press the Auto 自動 button in the standby mode (the Auto indicator flashes).
- The humidity setting lights up; press the Humidity 濕度設定 button to set the humidity.
  - ★If the humidity is set, wait for about 3 seconds and automatically enter the Auto mode.
  - ★If no humidity is set, it will be automatically set with the factory humidity setting (or the previous humidity setting).
- After entering the Auto mode, the Auto indicator will be on, and other buttons (except the humidity setting) cannot be operated.
- To leave the Auto mode, press Power Off/On 關/開 to leave Auto mode.

nanoeX bacteriostasis and deodorization

nanoeX (Laundry/Mode/Humidity)

■ To clean and deodorize during operation



■ During "Laundry"

To refresh cloths, with deodorization and sterilization function will be enabled automatically, The LED indicator lights up and cannot be cleared manually. The system beeps if you try to operate the "Purifying" button.If sound set OFF, there is no beep.

■ In "Mode" and "Humidity"

The nanoeX function may be switched on/off as desired.

- When PM2.5 or gas sensor detected that air quality or pollution increased, nanoeX will turn on and light up.
  (It cannot turn off manually. When operating Purifying 抑菌·除臭 , it will beep.)

About nanoeX

The product equipped with 「nanoeX」, which generates 10 times more hydroxyl (OH) radicals than the 「nanoe™」.

Environment conditions for generation

- The nanoeX is generated from indoor air which may fail to run successfully due to various temperature and humidity conditions.
- Generation conditions
  Indoor temperature: 5 ℃ ~ 35 ℃ with dew temperature above 2 ℃. Relative humidity: 30 % ~ 85 %

Little amount of ozone

- The generation of nanoeX ion may be accompanied with little amount of ozone. It's far less than ozone level existing in natural forest and bears virtually no impact on human body.
- In case of odor of ozone, disable the "Purifying" function.

■ nanoe™

nanoe™ nano water ion (nanoe™ ion hereafter) is a charged clean water ion by separating water molecules with high voltage. The nanoe™ ion technology features sterilization, allergens inhibition, fungi elimination and deodorization for skin healthy space.
★Floating fungi: Results after 4 hours test in 25 cubic meter closed space instead of practical outcome in daily life environment.
★Adhering fungi: Results after 8 hours test in 23 cubic meter closed space instead of practical outcome in daily life environment.
Deodorization effects vary with ambient environment (temperature, humidity), operation hours, deodorization, type of fabrics.

- Standalone test and practical use effectiveness may differ from each other due to conditions and use method.
- This device is not a medical equipment.

- About effect of nanoeX (Anti-bacterial • Anti-allergy)

Effcet	Testing organisation	Test method • result
Inhibit the growth of bacteria floating in the air and attached to furniture such as curtains.	Foundation Kitasato Environmental Science Center	The test space of 25 m^3, inhibit the growth of airbonre bacterial (one type) more than 99 % after 4 hours.
	The Japan Food Research Laboratories	The test space of 23 m^3, inhibit the growth of adhered bacterial (one type) more than 99 % after 8 hours.
Inhibit the growth of mold bacteria attached to furniture such as curtains.	The Japan Food Research Laboratories	The test space of 23 m^3, effectively inhibit the growth of mold bacterial (one type) after 8 hours.
Inhibit the activity of pollen and other allergens.	Panasonic Corporation Analysis Center	The test space of 23 m^3 with ELISA method, 99 % pollen (one type) can be inhibited in the space after 24 hours.
		Verified pollen (12 type) by using the electrophoresis method in an approximately 24 m^3-sized test chamber.Inhibitory effect was confirmed in 24 hours.

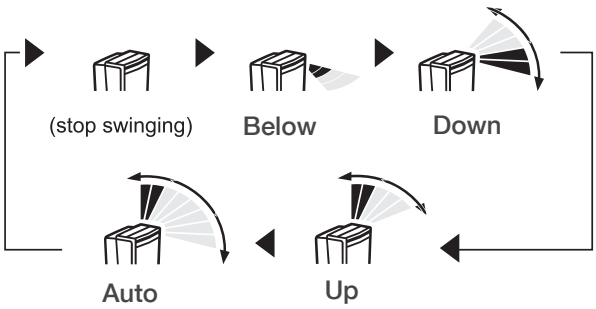
Air direction selection

Operations of the air direction selection (Laundry/Mode/Humidity)

The swing can be set to match the height of the place where you would like the air to reach.

■ To swing louver

Running ⇨ Louver 搖擺方向 聲音控制 按3秒 (Press to select)



■ To fix the louver

Select Auto to enable louver swing.
When it reaches the desired location,
press the ⇨ Louver 搖擺方向 聲音控制 按3秒 button again.

- The louver direction indicator lights off and the louver stops swinging and starts blowing in one direction.

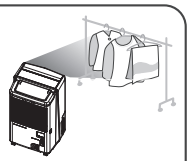
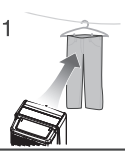
Note

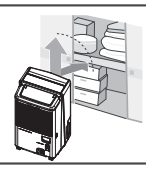
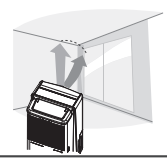
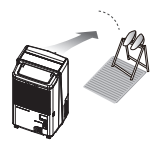
- Do not move the louver while swinging operation is in progress. (The swing range will change.)
- In this case, reset the air direction in accordance with the operations of the air direction selection or restart the unit. The angle will become normal.

Air direction setting example

Tips for drying effectively

1. Place the dehumidifier at a place that all clothes can be reached evenly.
2. Leave space between each item of clothing so that air can circulate freely.
3. Leave a distance of 40 cm or more between the dehumidifier and the clothes, depending on the amount of clothes.

Laundry	Dry clothes at lower part	Down	
	Dry clothes at upper part	Up	
	Dry clothes at both upper and lower part	Auto	
	Dry clothes of small quantity	Auto ∗1	

Dehumidification	Wardrobe and shoe cabin, etc.	Auto ∗1	
	Ceilings and walls, etc.	Up	
	Carpet、floor and shoes, etc.	Below ∗2	

∗1 : Choose either “Up” or “Down” depending on how high the clothes are hanging and how high the closet is.

- Based on type of laundry, quantity, and method of hanging, and room condition, etc, there may be variation of dry conditions.

∗2 : According to the actual needs, adjust the machine to an appropriate position so that the air can blow to the place that needs to be dehumidified.

⚠ CAUTION

- Leather items such as shoes can not be dried with a dehumidifier. (They will become warped or damaged.)

Timer / Sound / Key lock / Brightness setting

To use timed power on in the standby mode



(Press to select)

- When the Timer 時間掣 button is pressed in the standby mode (the "timed power on" cannot be set during operation), the LCD display will go on Note 1. After settings is completed, press the Power Off/On 關/開 button to finish the “timed power on” settings. If you want to cancel the timed settings, press the Power Off/On 關/開 button again.
- If you do not set any settings in the "timed power on settings" mode, the settings on the display and the LCD backlight will turn off after 15 seconds and return to the previous state.
- When”timed power on”is setting, all the keys will be disabled.(Except Power Off/On 關/開 、 Timer 時間掣 and key lock.)
- The timer displays the remaining time once it is set. For example, if the timer is set to "9 hours" and with 8 hours to go, it displays "8 hours".

*1 : Enter the "timed power on settings" mode. The settings will either be the factory default or the previous settings.

To use timed power off during operation



(Press to select)

- Press the Timer 時間掣 button when the power is on.
- The timer displays the remaining time once it is set. For example, if the timer is set to "9 hours" and with 8 hours to go, it displays "8 hours".
- The time will keep counting down once the timed power off is set, even if the unit stops due to the full water tank.
- If you set the timed power off in the laundry mode, the ECONAVI Indicator, Auto stop Indicator and Intelligent dryness monitoring system will not display.

Sound settings



(Press to select)

- Activate sound settings
  When running, press the louver button for about 3 seconds, and the text in the LCD sound area begins to flash; press the louver button again during the flashing to select the setting.
- Exit sound settings
  The setting will be exited if there is no operation after the text in the LCD sound area flashes for about 5 seconds, or another function button is pressed.

Key lock setting

- Key lock on
  During standby or operation, please press Front Display 前顯示設定 安全鎖按3秒 button for 3 seconds to activate the Key lock.
  When the LCD lock lights up, all functions are not available. (The backlight will light up by pressing any button when locked)
- Key lock off
  During standby or operation, please press Front Display 前顯示設定 安全鎖按3秒 button for 3 seconds to unlock.
  When the LCD lock goes off. All functions are available.

★Key lock will be automatically released when power failure occurs. The Key lock must be re-set.
★When the tank is full, Key lock cannot be cancelled by pressing the button if the tank is not emptied.

LED light brightness setting



(Press to select)

- Brightness setting (factory default is full brightness)
  When the humidity button is pressed for about 3 seconds when running, the LED light of the operation panel can be adjusted, but the brightness of the LED and the front display cannot be adjusted.

★ Press and hold the humidity button for 3 seconds to enter the brightness control, and changes can be made only when running.
★ The brightness control is to control the brightness of the ECONAVI, nanoe X, water full, and Auto indicator.

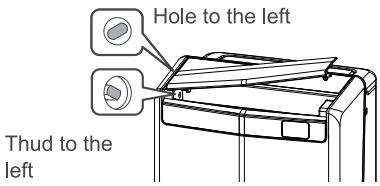
Handling of louver falling off / Handling of full water tank

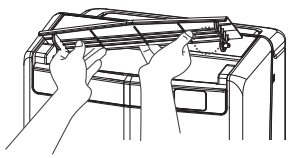
Handling of louver falling off

Louver fall off

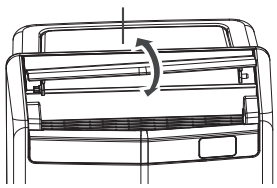
■ Installation of louver

1. Point and insert holes to the left to thud at left side of your product.
2. The louver is flat and slightly bent at its center part.
3. Insert right hand side of it to machine body.





Turn the louver upward and downward for easy inserting



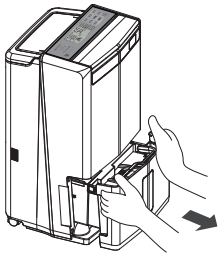
Handling of full water tank

● The product stops operation automatically when water in tanks reaches the full level. The LCD indicator turns orange for 15 seconds then goes off. The water display and the Full Tank indicator keeps on flashing. (If the Full Tank Alarm is ON, the buzzer beeps for 6 seconds together with the orange indicator.)

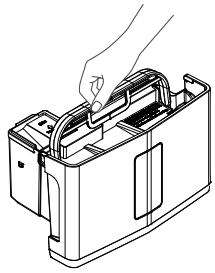
● Please empty water tank as described below

1 Hold down the machine body with your thumb and then take out the water tank.

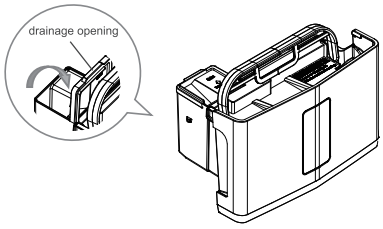
● Without hitting each other (cause to failure)



2 Carry the center part of water tank handle to drainage position.(To avoid water spilled lead to accident, please hold it gently while moving.)

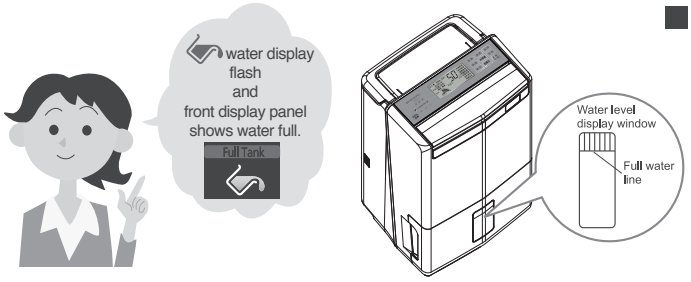


3 Pull up the water tank cover to open the drainage opening.



4 Carry the center part of water tank handle and hold the bottom part to drainage position.





■ Water tank installation

Close the drainage opening, insert water tank into place

- Close both water tank cover and drainage opening for installation.
  (or the water tank may fail to install in place and may lead to water leak)
- Push water tank in place. In case of damaged or poorly installed water tank, the Full Tank indicator may fail to flash and system operation may fail to start. Please remove the water tank and install again.

How to drain continuously

■ You may connect a hose to this product for continuous drainage if applicable.
(Call your service center or dealer for continuous drainage installation or removal).

⚠ CAUTION

■ Secure drainage hose firmly.

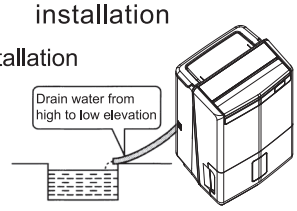
Keep drainage hose from bending and elevation difference for good drainage. Poor drainage may lead to water leak and wet floor.

■ Keep temperature around the drainage hoses above zero Celsius.

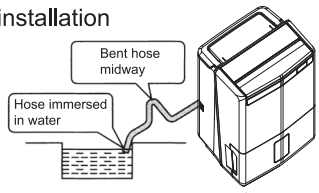
Or water in drainage hose may get frozen. This may block the hose from drainage and lead to water leak and wet floor.

Drainage hose installation

Valid installation



Invalid installation



Required accessories

- Commercially available plastic water hose

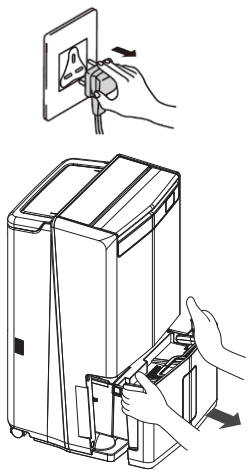
Length: 30 cm longer than distance from dehumidifier to drainage opening

Inner diameter: 15 mm

Note

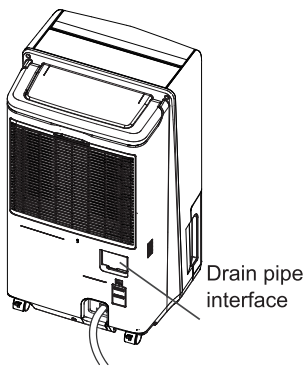
Temperature difference in between water in drainage hose and environment may lead to water condensed on surface of drainage hose. Take insulation measures if necessary.

1 Remove power plug and water tank

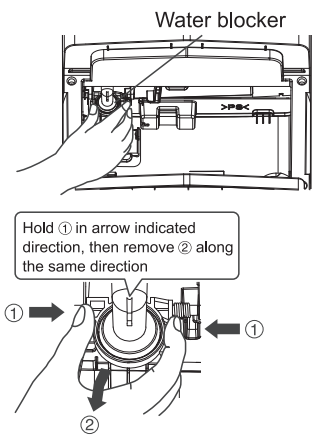


2 Open up drainage hose holder

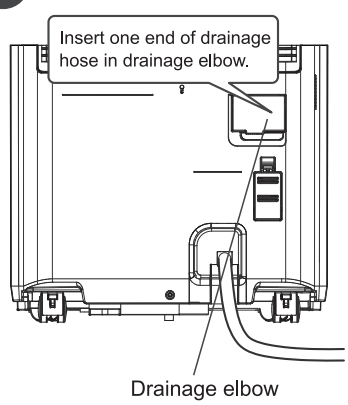
(turn it 90 degree outward instead of removing it)



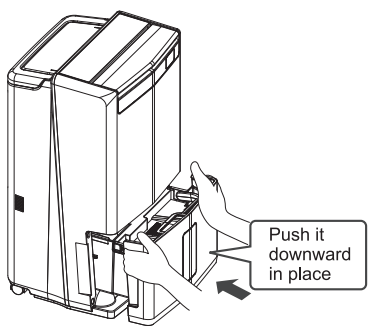
3 Remove water blocker



4 Install drainage hose



5 Install water tank



● Invalid installation may lead to operation failure

Note: please call your service center or dealer to un-install it as invalid installation may lead to water leak out of water tank.

Maintenance



Empty the water tank before doing any maintenance work!

■ Please disconnect the power plug and empty the tank. (see P.17 for how to empty the tank)

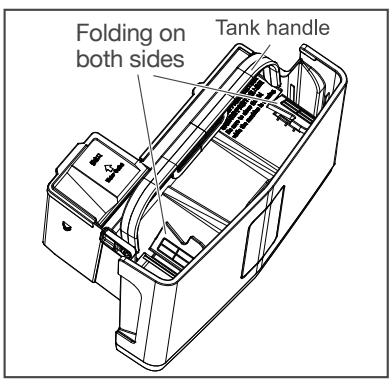


- Cleaning agents such as those shown on the left should not be used.
- If using a chemically-treated cloth, be sure to read the instructions of the cloth.

Water tank: once per month

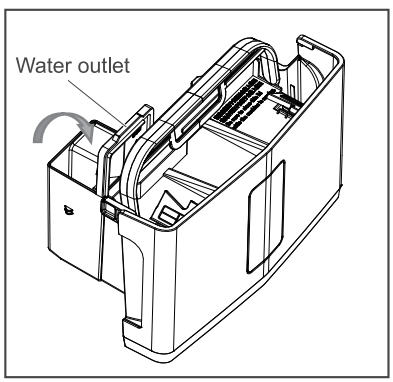
- Wash the water tank and tank cover with clean water 2 - 3 times.
- You don't need to remove the float, just clean it with water.

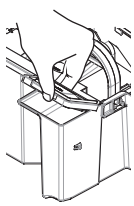
To remove the tank cover

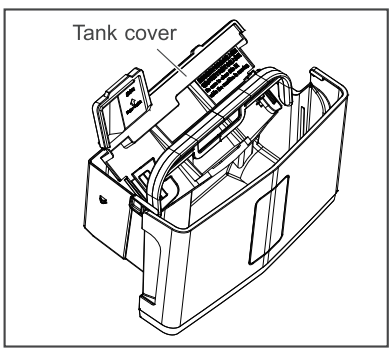


① Turn the tank handle up and fold both sides of the tank cover.
- When installing the folding on both sides of the water tank cover, it may sink if the force is too great.

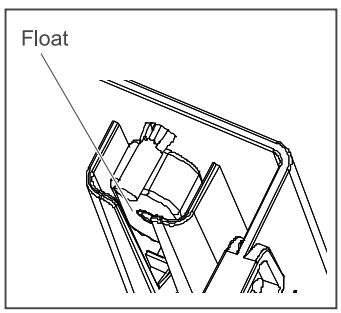
② Open the water outlet
- Do not strongly pull on the water outlet.







③ Pull water tank cover upward



■ Float
- Clean dirt around shaft with water (to prevent float from malfunctions)
- Do not remove float (invalid installation of it may lead to operation failure and water leak)

- Remove sticky dirt with thinned neutral detergent.
- Inner wall of tank may get black (due to dirt in air which dissolved in water)

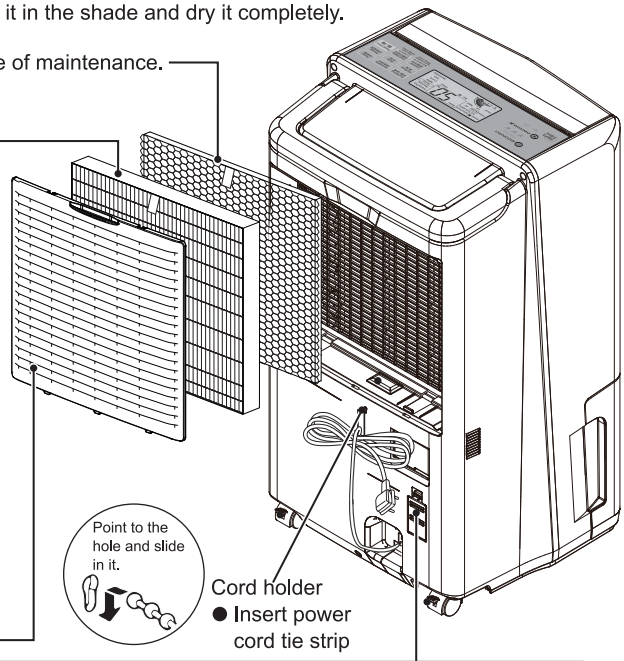
■ Please disconnect the power plug before servicing.

■ Wipe machine body with a wrung cloth and wipe with a dry cloth again.

●Do not leave the body widthwise (this may lead to water leak)

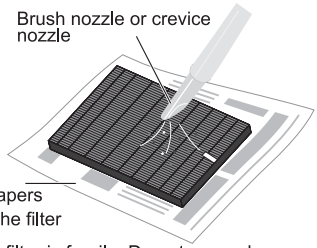
●Remove sticky dirt with thinned neutral detergent. Place it in the shade and dry it completely.

● The deodorant filter is free of maintenance.



HEPA filter
(When the filter cleaning indicator lights)

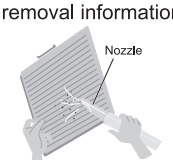
Remove dirt from the black side (front side) with a vacuum cleaner.
(For installation and removal information→refer to P.5)



- The filter is fragile. Do not press down the filter with force while vacuuming.
- The white side (back side) is free of maintenance.
- Do not wash with water.

Air Filter (Clean it biweekly)

Remove dirt with vacuum cleaner
(For installation and removal information→ refer to P.5)



- Replace in case of any damage.
- Regular maintenance (dehumidification capacity may drop, power bill may rise, and more failures may follow due to dirt and clogged filter)
- White crystal on the surface of activated carbon is modified formula salt out, not mildew phenomenon, this kind of white crystal does not impact the performance of activated carbon filter.

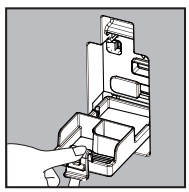
PM2.5(PM1.0) sensor (Approx. once/500 hrs)

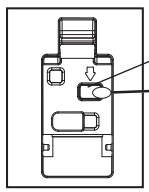
Remove dirt on the lens with dry cotton swabs.

- Clean the lens regularly.
  (If the lens is contaminated by dampness and cigarette smoke and oil mist, the sensor may operate incorrectly).

① Remove the PM2.5 sensor protection cover.

② Use dry cotton swabs shown in the figure to wipe.





- Use a flashlight if lighting is poor.
- ⬇ is the cleaning position
- Do not insert dry cotton swabs into any place other than the lens.
- Please disconnect the plug before you start the work.

- After cleaning the HEPA filter, press the [Purifying 抑菌·除臭] button for about 3 seconds according to the instructions on the front display, and the warning screen on the front display will be cleared.
- After replacing the HEPA filter, press the [Airflow 風量] + [Timer 時間設] button for about 3 seconds according to the instructions on the front display, and the warning screen on the front display will be cleared.
- After replacing the activated carbon filter, press the [Purifying 抑菌·除臭] + [Airflow 風量] button for about 3 seconds according to the instructions on the front display, and the warning screen on the front display will be cleared.

※ When the filter cleaning or replacement is not exited, the filter cleaning or replacement reminder will be displayed for 10 seconds each time the machine is turned on.If the HEPA filter has reached its service life, after another 500 hours of running, the filter warning screen will continue to display, and the "Front Display" button cannot be operated; please replace the filter as soon as possible and clear the warning screen.

Recommended Frequency of Filter Replacement

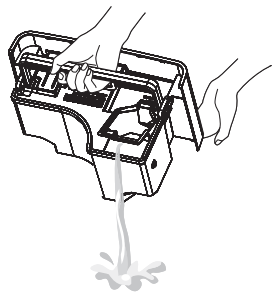
Model No.	Recommended replacement frequency	Requirements
HEPA filter	Approx. once/3 years	When 5 cigarettes are smoked daily (the indication for exchange of filter) (Japan Electrical Manufacturers' Association standards JEM1467)
Deodorant filter	Approx. once/5 years	

※ Filter replacement frequency may be shorter than normal, depending on the environment and usage. (For example, in household where smoking is frequent.) Please replace it when the performance is decreased.

(Optional parts: P.24)

- Write down the beginning date of service before installing the deodorant filter. Write down the beginning date of service on the sticker and attach it to the unit when replacing the HEPA filter.
- The used deodorant filter should be disposed as a non-flammable waste.

For machine not to use for long time



① Select function Fan and set it to run for 4 hours and power off automatically afterwards.
② Remove power plug, leave it for one day, empty the water tank afterwards (P.17).
③ Clean body, water tank, and filter.
④ Cover body with plastic bag.
⑤ Store dehumidifier in place of low humidity, good ventilation, and flat surface. (leave it tilted may lead to failure and water leak)

About Laundry mode

About **ECONAVI**

Select Normal along with Air to start the laundry operation. The ECONAVI indicator, auto stop indicator, and Intelligent dryness monitoring system are on during drying and off afterwards.

Detect changes in temperature, humidity; run and auto stop operation according to amount of clothes and estimated drying status.

● Reference operation hours before auto stop (Unit: Hour).

Model No.	F-YAV28H
Volume of clothes	Laundry operation hours
2 kg - 4 kg roughly	3.5~5.3
4 kg - 6 kg roughly	5.3~7.5

Test conditions: temperature at 20 ˚C; humidity at 80 %, room size at 20 square meters. (results as tested by this company)

- Actual operation time, power consumption, dehumidification level may vary with conditions of environment, type, amount, hanging pattern of cloths, room size.
- To dry clothes with dehumidifier it's better to do it in small (smaller than 20 square meters) and well-closed space for less energy waste. Operation stops after about 10 hours.
- Friendly reminder : You can remove HEPA filter when in "Laundry mode" (using ECONAVI) so as to shorten laundry time.
  Please reinstall the HEPA filter after laundry.

Troubleshooting

Please check the following first.
If the problem persists after taken all these steps, disconnect power plug and call your dealer or service center.

Error	Please ensure its contents
① Buttons do not operate.	● Is the Full tank indicator is flashing (P.17), or is Repair indicator flashing? (P.8), Key lock Set? (P.16) Safety protection? (P.8)
② The Full Tank indicator is flashing even though the tank is not full.	● Are the tank and float correctly installed inside the unit? (P.17, P.19) ● Was the tank banged against the unit during insertion? (P.17) → Remove the tank and then reinstall it gently.
③ Water is leaking.	● Has the unit been tilted or knocked over? ● Was the unit moved while there was still water in the tank? (P.4) ● Has the float come off? (P.19)
④ The tank does not fill up with water. (The unit is not dehumidifying very well.)	● Is the filter clogged (P.20), or is something blocking the air inlet or air outlet? (P.4) ● Are the room temperature and humidity low? (The unit dehumidifies less as the room temperature and humidity become lower.) ● Is the unit set to operate in “Auto” or “Mild” mode? (P.10) ● If the temperature is outside the range of 7 ˚C ~ 40 ˚C , dehumidifier operation will stop and become blower operation. (P.8)
⑤ No water remains inside the unit.	● Is the Fan mode set? (P.10) → No dehumidifying function in fan mode.
⑥ It takes a long time to dry clothes.	● Is wet, cold air entering the room? → Keep doors and windows closed as much as possible while drying clothes.
⑦ Clothes do not dry completely.	● Did prior clothes drying cycle complete? ● Is wet, cold air entering the room? → Avoid open doors and windows as much as possible while drying clothes. ● Is there a heater in use near the unit? (If the surrounding temperature is too high, the sensor will be unable to accurately judge the drying time.) ● Is the air blowing onto the all clothes? ● Are the clothes hung too closely together or in layers?
⑧ The humidity does not go down.	● Is wet, cold air entering the room? → Avoid opening doors and windows while lanundry. ● Is there other steam release equipment exists indoor?
⑨ Condensation forms all the time, even during dehumidifying.	● It may not be possible for dehumidifying to be fully effective if you place the dehumidifier in some places such as near windows, or behind furniture where air circulation is poor.
⑩ The Repair indicator flashes with error code [11] displays.	● Is machine body tilting? →1. Disconnect the plug, lift machine body up straight and wipe waters leaked 2. leave the machine idle for more than half a day (to dry the unit inside completely in case any water has spilled inside) 3. connect the plug, run dehumidification again ● Is machine body tilted too much? → Unplug the power plug and then reconnect it. ● Is there a magnet or metal placed above the machine body?
⑪ Error action	● Is there any foreign matter, water or dust on the control panel? (P.8)
⑫ There is hiss, squeak, or water flow sound heard	● This is the sound of the refrigerant flowing within dehumidifier or nanoe™ ion generation. It’s not a failure. (P.8)
⑬ The smell detection indicator stays on in "red" even if the unit operates continuously	● The indicator may light in red under the influence of hot steam from a bathroom or gases generated when using sprays.

Troubleshooting

Please check the following first.
If the problem persists after all these steps are taken, disconnect the power plug and call your direct dealer or service center.

Error	Please ensure its contents
⑭ The **PM2.5(PM1.0)** detection indicator stays on in "purple" even if the unit operates continuously	● Is the PM2.5(PM1.0) sensor dirty? (P.20)
⑮ The air is dirty but the **PM2.5(PM1.0)** detection indicator still lights in "green"	● Please confirm whether it's in a place that dirt is hard to collect. ● Is the PM2.5(PM1.0) sensor dirty? (P.20) ● When the operation mode and air volume change, the PM2.5(PM1.0) sensor may take a longer time to detect.
⑯ Air pollutants are hard to remove	● Is the HEPA filter dirty? (P.20) Is the deodorant filter ineffective? (P.20) →If the problem still exist after the maintenance work, replace the filter with a new one.
⑰ Low air volume	● Is the HEPA filter dirty? (P.20) →If the problem still exist after the maintenance work, replace the filter with a new one.
⑱ Unpleasant odor makes people feeling ill	● Is the HEPA filter dirty? (P.20) Is the deodorant filter ineffective? (P.20) →If the problem still exist after the maintenance work, replace the filter with a new one. (The unit is not intended to remove carbon monoxide and hazardous substances generated from cigarettes.) ● Do you use the dehumidifier in rooms with strong odor? If the dehumidifier is used in an environment full of cigarette or barbecue smoke, the filters should be replaced at a shorter interval. →If the unit is used in such environments, we recommended that you turn on the air exchange system of the room at the same time.
⑲ The air outlet temperature is higher than the indoor temperature	● When the compressor starts operating, there is air heat exchange, and thus temperature of the air outlet will increase. It is normal.

In case of the following, disconnect the power plug and call service center or dealer.

Error	Please ensure its contents
⑳ The Repair indicator lights (without flashing) and prompts error code (P.8 Repair)	● Machine failure, please note down the error code and call service center or dealer.

Emergency measures

In case of the following situations, remove power cord and call your dealer or service center immediately.

- Poor switch operation.
- Leak switch or fuse cutout frequently.
- Power cord and plug over heated.
- Odor or noise during operation.
- Water leaks from host.
- Other error or failure.

Please observe the rule

Please have your power cord replaced by equipment manufacturer, service center, or qualified technician for your own safety.

Optional parts

Parts name	Replacement HEPA filter
Model No.	F-ZPJX32EH

Parts name	Replacement deodorant filter
Model No.	F-ZPKX32EH

Check the dehumidifiers in use for a long time!

Does the machine have these problems?

- Not running after power-on or a sudden stop when running.
- The power cord was moved, and sometimes the power is turned on but sometimes not.
- The blade has an abnormal sound or vibration during rotation.
- The main body abnormally heats up, and there is a scorching smell.
- Other abnormalities or malfunctions

When you have these problems, please turn off the power to prevent accidents. When the dehumidifier stops running, the power consumption is about 1 W. Unplug the power plug (when the power plug is inserted) and contact the service center or dealer.

★For electrical appliances that have been used for many years, please take the initiative to contact the vendor for an overhaul and maintenance to improve the product's safety.

Memo

Specifications

Model No.		F-YAV28H	
Power supply		220 V~ 50 Hz	
Power plug shape			
Operating condition	Temperature	26.7 °C	30 °C
	Relative humidity	60 %	80 %
Dehumidification capacity (L/Day)		16.7	28
Power consumption (W)		278	334
Water tank capacity (L)		The unit automatically stops at around 5.5 litres	
Weight (kg)		18.5	
Dimensions (W X H X D) (mm)		370X650X320	

● Power consumption by dehumidifier at standby mode: 1.25 W. (with power plug connected)

Customer's record

For model name and production number of this product, please refer to the back side of machine.
Please record them in the space provided and keep for future reference.

Model No.	SERIAL NO.
DATE OF PURCHASE	DEALER'S NAME
DEALER'S ADDRESS	
TELEPHONE NUMBER	

Panasonic Corporation
Web Site : http://www.panasonic.com/

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