CHUNGHO **ChungHo Nais Co., Ltd.**

Rev,No.00

IGUASSU Air Purifier 900
User's Manual

▶ Design and color may differ from the picture.
▶ Product appearance, specification, etc. are subject to change without
prior notice if necessary for improving product performance.

＊Color : Black / White

CHUNGHO ChungHo Nais

Greetings

We greatly appreciate your purchase of ChungHo Nais air purification system. "IGUASSU Air Purifier 900".
IGUASSU Air Purifier 900 is designed and programmed in accordance with industrial standards.
Applied 3 stages filters (Pre-filter, medium carbon filter, HEPA filter) make it possible to remove fine dust as small as $0.3\mu m$, some of the potential causes of respiratory problems, yellow dust, germs, bacteria etc.
And particle sensor detects the indoor pollution level and control the fan speed automatically to keep the clean and fresh air.

Please read the instruction manual thoroughly and keep it for a future reference.

Table of Contents

1. Product feature

① Superior air cleaning capacity

3 stages air cleaning system equipped with Pre filter, Medium carbon filter and HEPA filter eliminates fine dust and odor substances as well as it inhibits microbial growth such as mold, germ and bacteria.

② High efficiency air cleaner

High efficiency HEPA filter quickly removes the indoor air pollutants and makes indoor air fresh.

③ Auto operation by detecting the pollution level

It displays the indoor air pollution level detected by particle sensor and enables user to know pollution level easily, and "Auto" mode controls the airflow speed automatically in accordance with the air pollution level and conveniently keeps pleasant air in the room.

④ Deodorization function

Using activated carbon increases odor removal efficiency and capacity by eliminating formaldehyde and VOCs (Volatile Organic Compounds), which are well known for Sick House Sundrome along with ammonia, acetaldehyde, acetic acid.

⑤ Sleep mode by using BLDC motor

It continues to remove the indoor air pollutants very quietly while operating in "SLEEP" mode by using BLDC motor.

⑥ Sleek and slim design

Sleek and slim design along with convenience matches well in any place.

2. Safety precautions

Cautions are divided into 2 categories: **'Danger'** and **'Caution.'**

Danger Associated with the possibility for serious injury or death.

Use the designated power rating.
- **Inappropriate voltage may cause a fire or electric shock as well as product failure.**

Do not operate any appliance with damgaged cord or plug.
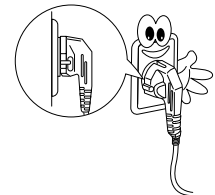- **Electric shock or fire may occur.**

Keep the cord out of heavy traffic areas.
- **This can lead overheating to outlet.**

Put the cord all the way to the end.
- **Unstable connection may cause fire.**

Do not touch the power plug with wet hands.
- **Electric shock may occur.**

Always unplug the air cleaner before moving or cleaning the unit, changing filters and whenever the unit is not in use.
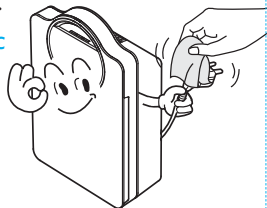- **Electric shock may occur.**

2. Safety precautions

Danger   Associated with the possibility for serious injury or death.
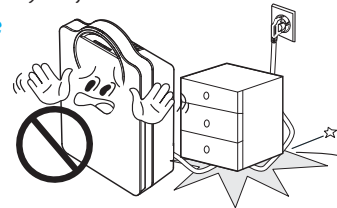
If dust or water is on power plug, wipe it off well with dry cloth.
• Wet cloth can cause electric shock or fire may occur.

Do not bend the power cord nor allow it to be pressed under heavy object.
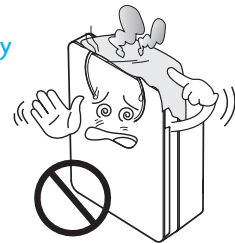• Electric shock or fire may occur.

Do not put foreign substance like pin, bar, coin and etc into airflow inlet and outlet.
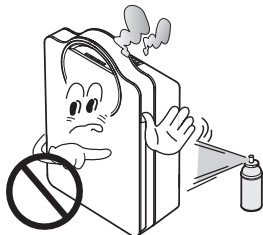• Electric shock and malfunction may occur.

Do not block airflow inlet and outlet with laundry or curtain
• Blocking ventilation holes may raise inside temperatures and cause system malfunction or fire.

Do not sprinkle flamable spray or insecticide over the product.
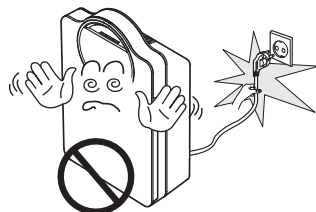• Malfunction and fire may occur.

Do not install the product nearby largely flammables (Spray, butane, etc) and heater.
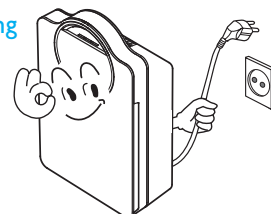• Explosion and fire may occur.

To disconnect the unit, be sure to pull by the plug and not the cord.
• Malfunction and fire may occur.

Stop using in the event of abnormal sound or smell.
• Earthquake, fire and flood or abnormal sound or smell is found, stop using and unplug.

2. Safety precautions

Danger   Associated with the possibility for serious injury or death.

Do not place the product in damp place or at the place exposed to rain or snow.
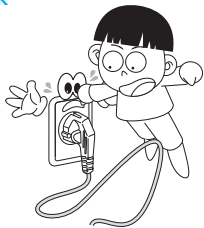• A fire or electric shock may occur.

Do not attempt to repair or adjust any electrical or mechanical functions on this unit.
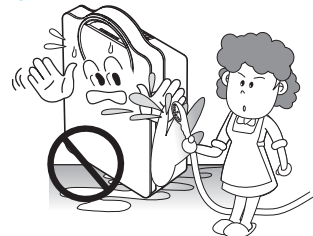• This is a danger of electric shock and fire.

Be careful not to step on and fall over the cord.
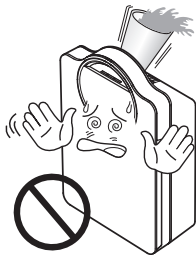• An injury and electric shock may occur.

Do not sprinkle water onto the product.
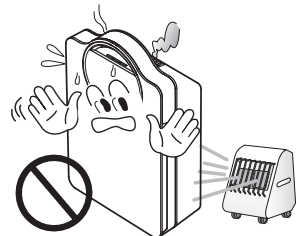• Malfunction and electric shock may occur.

Do not place medicines, metals, a bowl of water, etc. on the product.
• An electric shock and fire may occur if the foreign substance drops into the product.

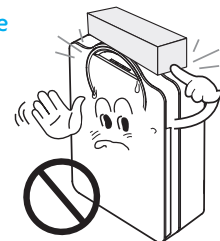Keep unit away from heated surfaces and open flames.
• A fire may occur.

Do not prick display window or buttons with something sharp.
• Electric shock may occur.

Do not place anything on top of unit or give a shock on it.
• Damaged product may cause overheating and fire.

2. Safety precautions

Caution   Associated with the possibility of injury, property damage and reduced performance of product.

Do not install the product in a sloped or unstable position.
• It can cause injury and damage.
• On the unstable ground, fine shake may occur. This is not a problem. Place it on flat ground.

This product is for indoor usage only.
41F (5°C) ~ 86F (30°C)
• Using outdoor can cause deformation and discoloration.

Close supervision is necessary when any appliance is used by or near children.
• An injury may occur.

This product is not recommended to use in a restaurant or kitchen where is filled with oil and dusty area caused by construction, poisonous gas.
• Shortened service life of filter and less air purifying efficiency may occur.
• Sensor can be contaminated.
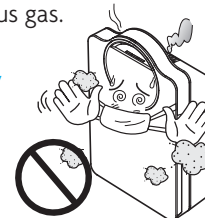
Keep it unplugged during when the unit is not in use.
• This is for preventing negligence accident.
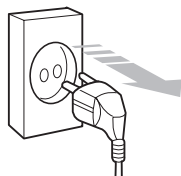
This is for purifying air indoor only.
• Other purpose than this including use as a ventilation system can bring out shortened service life of filter and less air purifying efficiency.

Don't allow you to brush against cool air directly for long period of time.
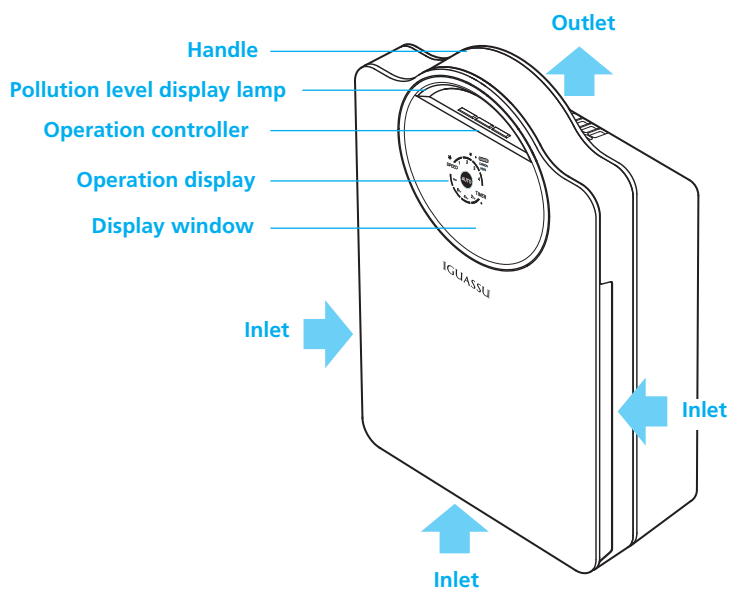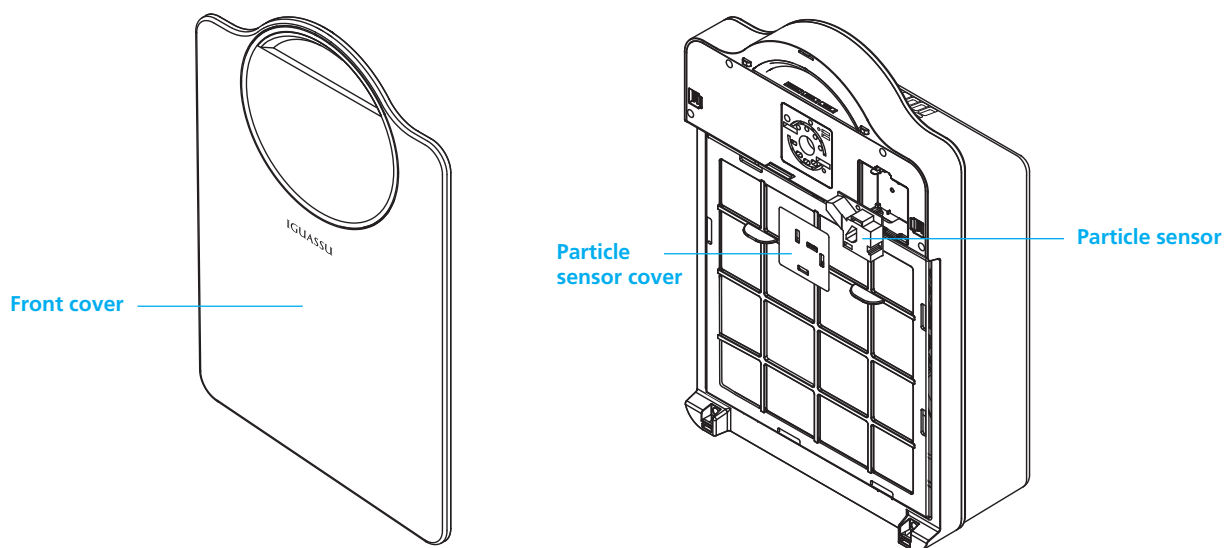• Body temperature may fall.

Use the product according to guideline in user's manual.
• If the product is not used in accordance with introduction in the manual, it can cause injury and electric shock.
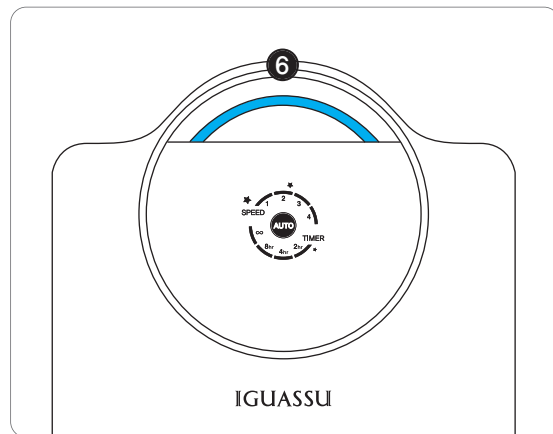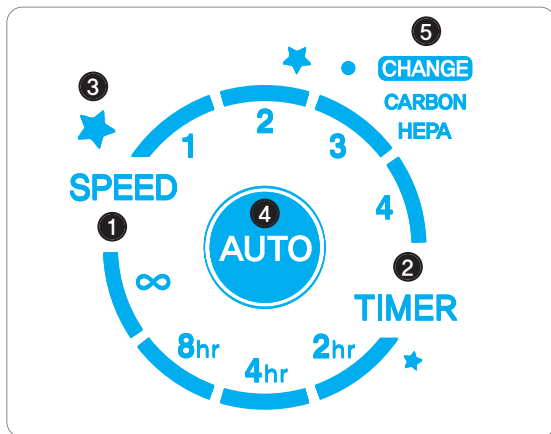
3. Name of each part

Front cover

Particle sensor cover

Particle sensor

Handle

Pollution level display lamp

Operation controller

Operation display

Display window

Outlet

Inlet

Inlet

Inlet

# 4. Display and operation function

4-1. Display function

1 Speed : Display of fan speed.

2 Timer : Display of time setting.

3 Sleep mode (⭐) : Display of sleep mode.

4 Auto : Display of automatic operation.

5 Filter change : Filter change indicator informs the right time to change filter.

6 Pollution level display lamp : Display of indoor dust level.

4-2. Operation Function
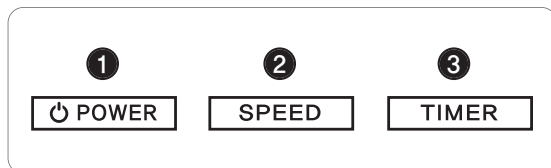
1 POWER : Power on/off

2 SPEED : Setting the level of fan speed.

3 TIMER : Setting the operation time.

5. Filter function

HEPA filter

Medium carbon filter

Pre filter

Front Cover
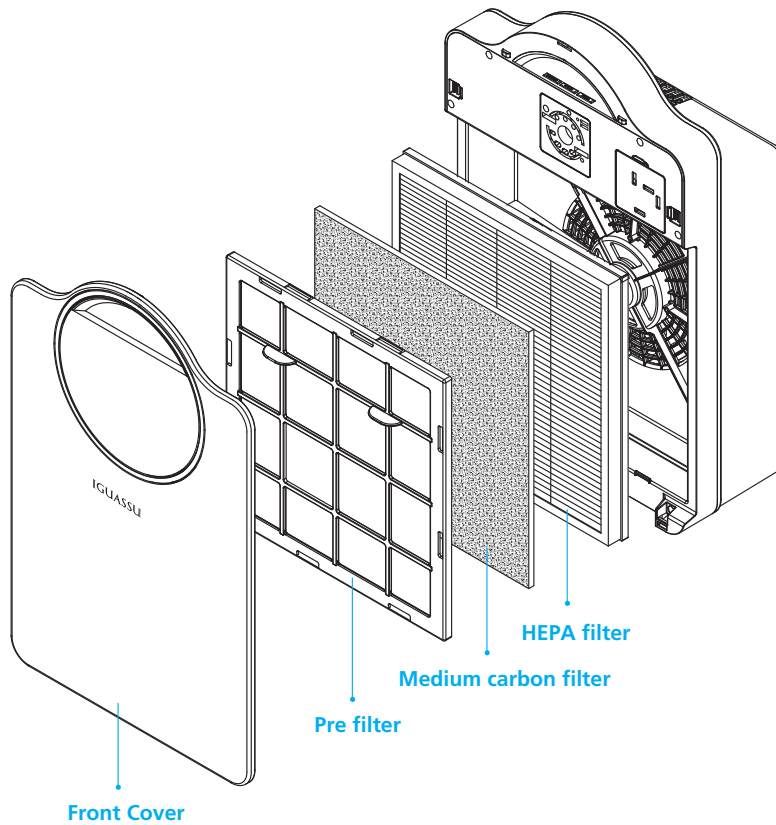
Pre filter	Eliminate visible particles such as lint, dust on blanket and pet hair.
Medium carbon filter	Composed of antibiotic material with carbon powder to be against yellow dust, germs, bacteria and ammonia, acetaldehyde, VOCs etc. are captured and removed.
HEPA filter	Eliminate fine particles as small as 0.3 μm such as bacteria and dust of the potential causes of respiratory problems.

※ Medium carbon filter is located after pre filter.

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6. Usage

• Plug in the power before using the product.

• The product is automatically set level 1.

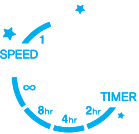## 6-1. Power button

① Setting of ON/OFF.   [⏻ POWER]

6-2. Speed button

① Plug in the power

• The product is set level 1 as flickering LED window two times. (Setting sound : Ding~dong~daeng~)

• Display lamp changes its color for 30 seconds and display a color to the pollution level.

(Clean/Blue - Low pollution / Green - Medium pollution / Purple - High pollution / Red)

② Press "SPEED" Button   [SPEED]

• As you press "SPEED" button, speed is changed as follows "level 1 - level 2 - level 3 - level 4 – Auto – Sleep mode – level 1."

	Level 1	Level 2	Level 3	Level 4	Auto	Sleep
Operation display	SPEED 1	SPEED 2	SPEED 3	SPEED 4	AUTO	SPEED TIMER

③ AUTO

• If the speed is set "AUTO", the particle sensor controls fan speed in line with indoor dust level.

Pollution level display	Blue	Green	Purple	Red
Speed level	Level 1	Level 2	Level 3	Level 4
Blue	Clean	Low	Medium	High

④ Sleep Mode ( )

• If sleep mode is set, mood lamp is turned off as display lamp fades out and speed is set level 1 not to interrupt sleep.
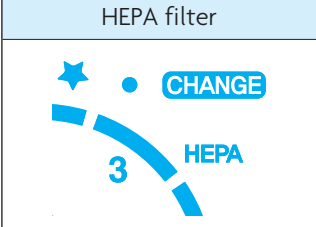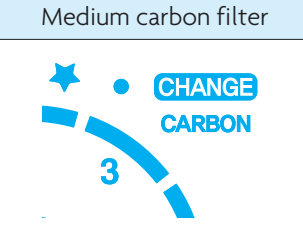
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6. Usage

6-3. Timer button

① Initial setting is programmed for continuation (∞).

② Press timer button. TIMER

• As you press timer button, timer is changed as follows continuation(∞) – 8 hrs – 4 hrs – 2 hrs-continuation (∞).

	Continuation (∞)	8hrs	4hrs	2hrs
Operation display	∞ TIMER	8hr TIMER	4hr TIMER	2hr TIMER

6-4. Filter change indicator

Filter change indicator informs users of right time to change filters.

• Filter service life can be different depending on circumstances such as pollution level.

HEPA filter	Medium carbon filter
CHANGE HEPA 3	CHANGE CARBON 3

• **Filter change indicator initialization**
  - **After replacement of filter,**
  - **When users want to take the time of filter back to initial level,**

① Press "Timer" button for 5 seconds. Status of filter change indicator is initialized to reset mode. (Setting sound: Ding~ Ding~ Ding)

② As you press "Timer" button, LED light of "CARBON" and "HEPA" is ON one by one. Select the filter which is needed to be initialized.

③ Press "SPEED" button for 1 second to initialize the time of filter. (Setting sound: Ding~ Ding~)

④ Reset mode is released when either "TIMER" button is pressed for 5 seconds or no button is applied for 10 seconds.

6-5. Particle sensor (Sensitivity control)

- The product is set "standard". If the product operates in red color for more than 2 hours even not in high humidity and yellow dust or if the product operates in blue color for more than 1 hour even in high pollution, particle sensor is needed to clean. (Please refer to the page 15.)
  If the cleaning is no use, controls particle sensor as below.

① While the product is operating, press "SPEED" button for 2 seconds, particle sensor gets vitalized ringing beep sound.
   (Setting sound : Ding-ding-ding)
② Standard speed is set level 2. (2 bars are on.)
③ While particle sensor gets vitalized, as you press "SPEED" button the sensor gets sensitive and as you press "TIMER" button, the sensor gets dull.

Level	High sensitive	Sensitive	Standard	Dull	High dull
	- 2	-1	0	+1	+2
Operation display					

④ If the setting is set and press "SPEED" button for 2 seconds, then function is released.
   But, if no button is applied for 10 seconds, the function is automatically released.
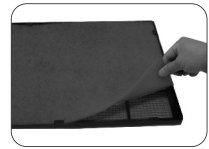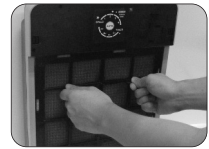
7. Filters

7-1. Filter cleaning and replacement

① Turn off and unplug the unit.
   • If not, electric shock may occur.

② Pull out the front cover as holding upper side of the product.

③ Pull out forward the pre filter as pulling two holders.
   1) Medium carbon filter is attached to pre filter.
   2) Once a month, pre filter needs cleaning work with vacuum cleaner or water.
   3) Service life of medium carbon filter is 6 months.
   4) Medium carbon filter is fixed by hooks.
   5) Replace the medium carbon filter with new one by dispatching it from pre filter.

④ Detach medium carbon filter and HEPA filter from the main body.

⑤ Replace medium carbon filter and HEPA filter with new ones.

⑥ Put the filters into the filter case in a reverse order.
   (Front cover – pre filter – medium carbon filter – HEPA filter)
   ※ Refer to the page 10.

⑦ Insert medium carbon filter to pre filter first and put it together into the product.

⑧ Insert front cover and plug the power.

7-2. Filter service life

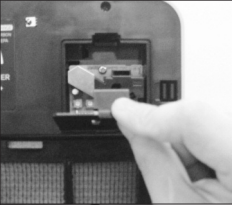| Filter	Service life and cleaning	Process
Pre filter	1 month	Reuse after cleaning
Medium carbon filter	6 months	Change
HEPA filter	12 months	Change
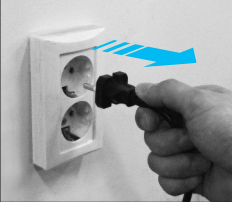
7. Filters

7-3. Cleaning of particle sensor

• Particle sensor is...

Particle sensor detects fine dust going around from carpet, cigarette smoke and blanket etc. and send signal to the controller to indicate how polluted indoor air is. Pollution is displayed by lamp color (Refer to page 11).

※ Cleaning work is recommended every two months.

① Plug out the power. 　※ Do not touch with wet hands.	
② Detach front cover.	
③ Remove cover of particle sensor.	
④ Wipe off lens with wet cotton ball and remove liquid with dry cotton ball. 　※ Do not allow moisture to come in contact with the sensor.	
⑤ Assemble in a reverse way.	

※ Be careful of damage of particle sensor while cleaning.

8. Troubleshooting

Issue	Checking point	Yes	No
When the display is turned off and the product does not work.	Is the power plug inserted properly?	Request follow-up service.	Make sure unit is properly plugged in.
Decreased air flow.	Check condition of the filter and clean/replace if necessary.	Replace filters with new ones and clean up pre filter.	Request follow-up service.
Decreased deodorization.	Check condition of the filter and clean/replace if necessary.	Replace filters with new ones and clean up pre filter.	
The product is shaking over.	Is it installed on uneven place?	Install it on flat surface.	
Bad smell coming out from air outlet.	Check condition of the filter and clean/replace if necessary.	Replace filters with new ones and clean up pre filter.	
	Are you using the product where the smell and smoke keep rising?	Continuous smell and smoke can cause reduced performance.	
Pollution level display lamp does not change its color.	Is there any dust stick onto lens of particle sensor?	Clean up lens of particle sensor.	
	Does the lamp keep lighting red (pollution level is high) ?	Set the level of detection sensitivity "dull" or "standard".	
	Does the lamp keep lighting blue (Pollution level is low)?	Set the level of detection sensitivity "sensitive" or "standard".	
Does display button fades out?	Is the sleep mode set?	If sleep mode is set, LED window gets fading out.	
Others	If you still have a problem, request follow-up service.		

9. Specification

Product name	IGUASSU Air Purifier 900
Model name	CHA-300WA
Power rating	AC 220V/50Hz
Power consumption	20 W
Current consumption	0.25 A
Air flow	3.1 ㎥/min
Applicable area	23 ㎡
Dust collection efficiency	93.3 % (Fine dust 0.3 ㎛)
Deodorization efficiency	73 %
Noise	Less than 45dB
Installation	Indoor
Net weight	11 lbs. (5 kg)
Dimension	326W X 162D X 512H(㎜)

10. Memo

10. Memo