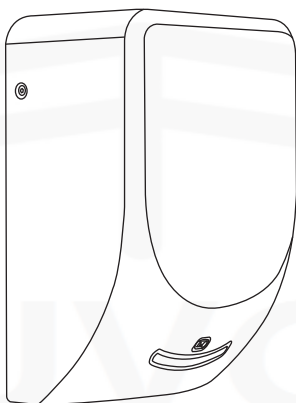


- Please Install Under Professional Guidance
- Please Read the Manual Before Use or Installation.
Keep The Manual Properly for Future Reference.

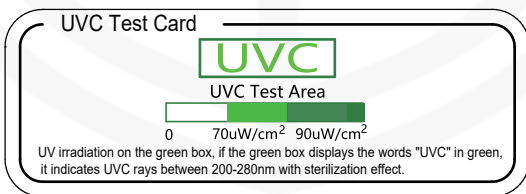
Stainless Steel UV Hand Dryer

Model:PW-Zap X

USER MANUAL



UVC Test Card



Contents

Content, specifications, important safety statement ······

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Specifications

Rated voltage	110V-120V AVC	Wind velocity	105M/S
Input power	1420W	Heating start temperature	25±2°C
Motor Power	600W	Hand drying noise disinfection noise	< 75dB(A)/15dB(A)
RPM	31000RMP	Motor	Series Motor
Heating Power	800W	Sensor Type	Automatic Sensing
UV light power	20W	Dimension	290.00X200.00X130.00MM
Disinfection area	30M³	Net weight	4.00KGS
The Hand Dryer Will Automatically Stop After 25 Seconds Consecutive Running. Retract the Hands and Reach Out Again.The Machine Works Again.			



Important safety instructions

Personal injury accidents will happen if use improperly



- Do not modify or dismantle the machine unnecessarily
Otherwise it might cause fire, electric shock or injury accident



- Do not modify or dismantle the machine unnecessarily
Otherwise it may cause the danger of UV leakage



- Do not use it in the rain or shower room or any places prone to condensation
Otherwise it might cause electric shock or machine fault



- Must have reliable ground wires.
Otherwise it might cause electric shock when the machine malfunctions or leakage.



- Please use rated power
If it is 10% beyond the rated voltage, the machine might get fault.
- Please use a separate circuit
If combined wiring with other appliances, it might cause over-heating of the socket and cause fire.



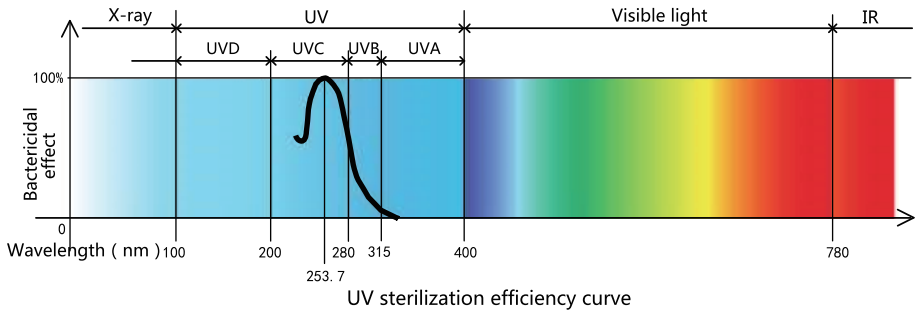
Warning

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- The packing film might cause suffocation of the baby. Please dispose it properly.

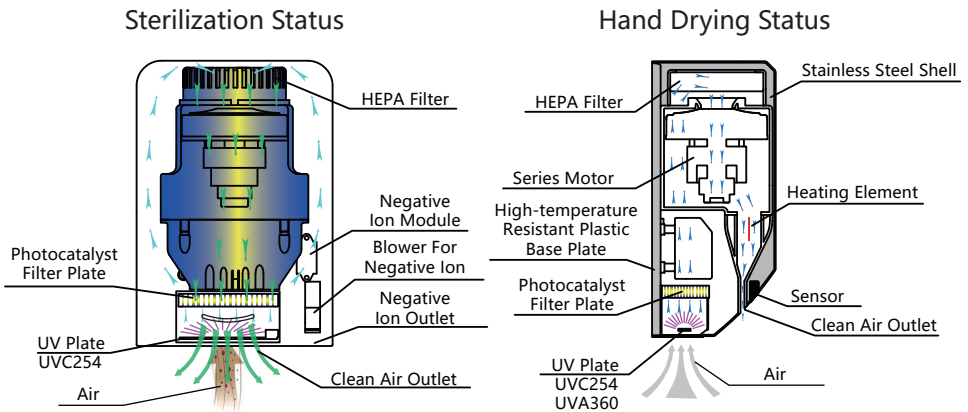


- Environmental ProtectionWaste electrical products should not be disposed of with household waste.Check with your Local Authority or retailer for recycling advice.
Always dispose of used packaging materials. Recycle where facilities exist.

The principle,feature of UV



How to use and protect



How it works and how it process

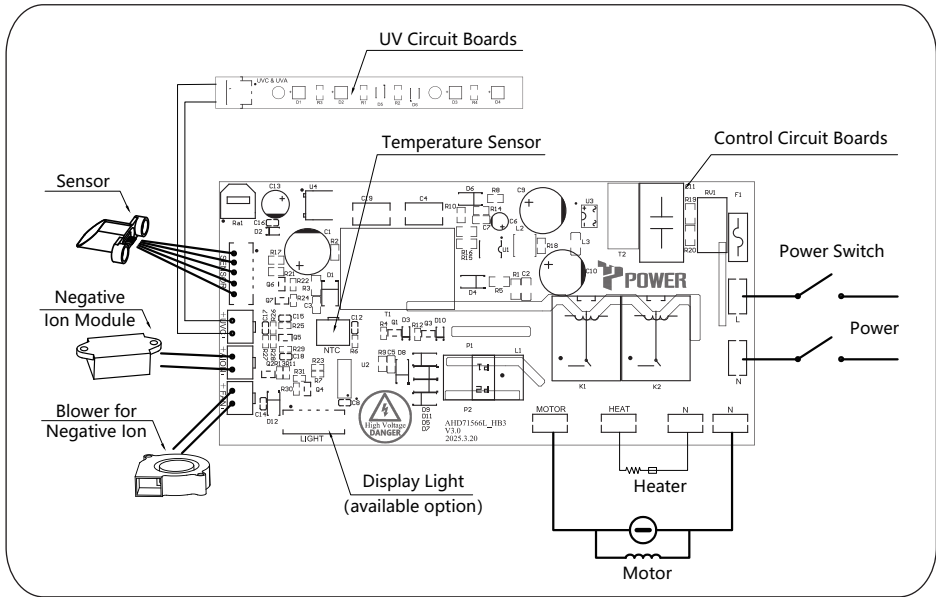
- High-intensity UVC/UVA generated by deep purple lamp beads irradiates the air and photocatalytic filters for rapid disinfection.
- When hand dryer is operating, the outside air will go from the inlet, through the HEPA filter, the photocatalyst and UV disinfection and discharged back into the air. After multiple cycles, the machine and the external space will be disinfected: everytime the machine is activated, disinfection function continues to work for 4 hours.
- When the machine is activated, the negative ion assembly will generate 150 million (1.5×10^8)/minute. The negative ions will be released into the air to make the dust and aerosols with germs and bacteria settle down quickly and kill them.
- Specialized motor for sterilization with a lifespan of up to 50,000 hours.
- UV protection plate to avoid UV leakage to harm users.
- The whole machine is made of UV-proof material to avoid aging of the material and prolong the life of the machine.
- Photocatalytic filters decompose odors and sterilize under UV light.

Fault Solution

If the following situation occurs, please follow the guidance to inspect and settle

Situation	Inspect	Settlement
Hands in but without airflow	- Check whether the power is cut or not - The hands are too close or too far - Check whether the switch is at on position (if the machine has the switch)	- Power On - Reach out the hands 5-12cm below the air outlet. - Settle the power switch in the on position (if the machine has the switch)
The machine runs and stops automatically after connected to the power.	Check whether there are objects or dirt on sensor.	Cut off the power and clean the sensor.
No warm air	Check whether the ambient temperature is over 25°C.	The heater works when the temperature is lower than 25±2°C
Low air speed	Check whether the filter is too dirty.	Replace or clean the photocatalyst filter and HEPA filter.
No disinfect	Check whether the UV lamp is illuminated.	If the UV lamp does not work (illuminated) replace the UV assembly.
No clean air out of negative ion outlet	Use negative oxygen ion testing equipment to test whether there are negative oxygen ions and whether the negative oxygen ion fan is working.	Replace negative ion generator or negative ion blower.
If the machine can't be recovered after the above inspection and settlement, please cut off the power and have it repaired by your distributor.		

Electric Diagrams



1

Major parts	Maintenance period	Approach	Introductions
DEEP UVC-LED	18 Months	Replace	If some place with large volume of passenger traffic or complicated environment, to replace the UV light in short time.
Photocatalysis screen plate	6 Months	Replace	The effect is lost if the dust cover it.
HEPA Filter	6 Months	Replace	HEPA Filter will lose it's filtering effect if the surface is covered with dust.
Shell	Every day	Clean	Keep the shell clean and beauty.
Sensor	Every day	Clean	Keep it operating properly

Clean the unit body



WARNING

- Before you clean the unit, turn off the power switch



Caution

- Wear gloves when cleaning.

2

- Clean the unit with a soft cloth.
If the unit gets very dirty, clean with a soft cloth dampened with neutral agent, then clean with a dry soft cloth.
- Before remove the dirt from the sensor, turn off the power switch.
 - Please clean the shell used special neutral cleaner.
 - Do not use thinner, acidic or alkaline toilet cleaners, or nylon brush. Otherwise, they may damage the smoothness of surface.
 - Only use the 75% alcohol to clean the shell surface.
 - If the chemical cloths used, please read their instructions first.

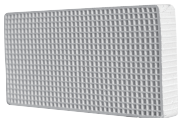


NOTE

Photocatalyst Filter Cleaning / HEPA Filter Cleaning

3

- Disconnect the power, refer to [Installation Method] to remove the hand dryer.
- Refer to [Installation Method] and detach the cover.
- Remove the UV protection shell and take out the photocatalyst filter.
- Blow dust off the filter with pressurized air.
- Refer to [Installation Method] and install the machine.
- Soak the filter in water containing neutral detergent at a temperature of 50°C or below for 3-5 minutes, rinse with clean water and air dry.
- Cut off the power, refer to [Installation Method] and uninstall the hand dryer.
- Refer to [Installation Method] and remove the cover.
- Rotate and remove the top cover, take out the HEPA filter.
- Blow away the dust on the filter with compressed air.
- Refer to [Installation Method] and install the machine.

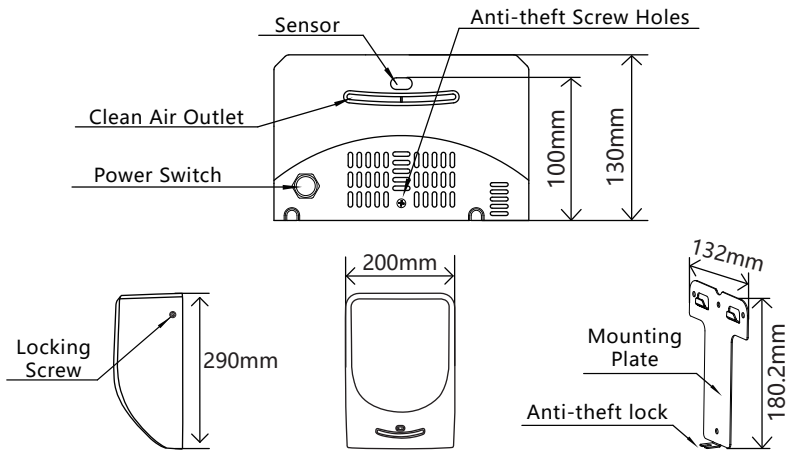


Photocatalyst Filter



HEPA Filter

Appearance Diagram



▲ Installation Notices

- Do not install when power is on
- Choose a place with sufficient strength
Otherwise the machine might fall down
and cause injury

■ Do not install at the following places

- Lower than -20°C or higher than 50°C
- Places directly exposed to water
- Places exposed to direct strong sunlight.

■ About Installation Location

- The bottom of the machine should be at least 200mm higher than any surface or objects
Otherwise the machine might work automatically
- Please avoid installing at the place where easy to bump into people or doors

- Install by the professionals
- Wear protective gloves when installing
Otherwise it might cause injury

- Places prone to condensation
- Places with corrosive, oxidizing and reducing gases
- Places beyond altitude of 2500m

- Better not have mirrors or walls on both sides of the machine
Otherwise the water will be spattered on the mirror or wall
- Please install the machine on the plain wall

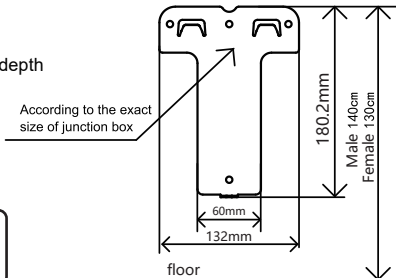
Wall Treatment

1. Stick the mounting plate on the wall and keep the upper side paralleled with the floor
- Drill 4 holes with 6mm Diameter and 35-40mm depth
- For hardwiring
Open a square hole according to the right chart and put a junction box inside
If there is no junction box, the cable would be out of the machine and it can't be installed



Warning

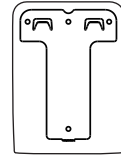
Junction box can't be beyond the outline of the machine
Otherwise it will affect the appearance



2

Fix the mounting plate

- Put the junction box into the square hole and insert plastic expansions into 6mm holes
- Fix the plate on the wall by three stainless steel screws.
Notice: the mounting plate will be partially pressed to the junction box (for non-hardwire installation, no junction box)



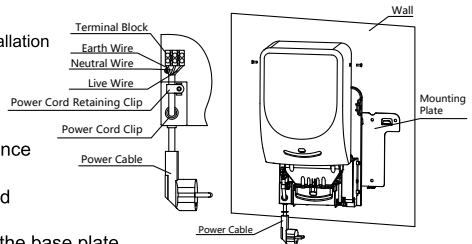
3

- Please use rated single-phase AC(not beyond $\pm 10\%$ of the rated voltage).
- Please use 1.5-2.0mm² multi-stranded cables (do not use single strand cable)
If the cable is longer than 5m, please use 2.0mm² cable

Cable Connection

Note: Skip this process for non-hardwire wire installation

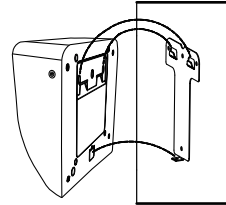
- Identify lines: Brown for phase line, Blue for null line and dual color for ground line.
- Loosen four screws and open the baseplate
- Lead the wire into the machine from the entrance of the base plate and connect to the Switch
Brown line connect to L end, blue line to N end and dual color
- Press the lines tightly with wire clamp and fix the base plate.



4

Install The Machine

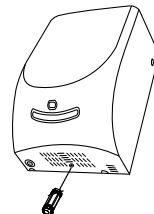
- Take the machine close to the wall and put the extra wires into the junction box
Note: Skip this process for non-hardwire wire installation
- Align two holes on the back of the machine with two hooks of the mounting plate and move it up and down several times.
After confirming that the two hooks of the mounting plate have completely fixed in the holes, release your hands.



5

Install Anti-theft Screw

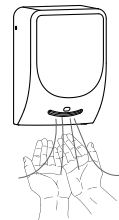
- There is an anti-theft screw inside the machine already
Tighten the head of the anti-theft screw with a 5mm Phillips screwdriver
Notice: while tightening the screws, press the machine to the wall by hand, so that the back of the machine is close to the wall
- Put on the protective cap



6

Test Run

- Confirm that the machine is securely mounted
- Confirm power voltage Confirm power is on
- Put wet hands under the wind outlet, away from the machine 5-10cm, the machine will blow a strong wind and dry hands
- Every time the machine is activated, UV lamps and negative ion generator will run for 4 hours. During this period, UVC is sterilizing the air inside the machine and the negative oxygen ion generator releases negative oxygen ions at the same time



UV Sterilization Performance

Type	Name	Time required for 100% kill (seconds)	Type	Name	Time required for 100% kill (seconds)
Bacteria	Escherichia coli	0.36	Bacteria	Mycobacterium tuberculosis	0.41
	Klebs-Loeddler bacillus	0.25		Vibrio cholerae	0.64
	Tetanus bacillus	0.33		Pseudomonas	0.37
	Clostridium difficile	0.80		Salmonella	0.51
	Dysentery bacillus	0.15		Enterobacteriaceae	0.41
	Bacillus anthracis	0.30		Salmonella typhimurium	0.53
	leptospirosis	0.20		Shigella	0.28
	Legionella pneumophila	0.20		Staphylococcus genus	1.23
	Micrococcus	0.1-1.53		Streptococcus genus	0.45
Virus	Adenovirus	0.10	Virus	Influenza virus	0.23
	Bacteriophage virus	0.20		Poliovirus	0.80
	Coxsackievirus	0.08		Rotavirus	0.52
	Ekonavirus	0.73		Tobacco mosaic virus (TMV)	16
	Echovirus I	0.75		Hepatitis B virus (HBV)	0.73
				Soft spores	0.33
Moldy Robe	Aspergillus niger	6.67	Moldy Robe	Penicillium	2.93-0.87
	Aspergillus genus	0.73-8.80		Penicillium toxicum	2.0-3.33
	Dung fungus	8.0		Penicillium Other Fungus	0.87
	Trichoderma	0.23-4.67			
Algae	Cyanobacteria	10-40	Algae	Cnidaria	7.30
	Chlorella	0.93		Chlorophyta	1.22
	Nematode egg	3.40		Protozoan genus	4-6.70
Fish-borne Disease	Fung1 disease	1.60	Fish-borne Disease	Infectious pancreatic necrosis	4.0
	Leukoplakia	2.67		viral hemorrhagic disease (VHD)	1.6

Packing list

Hand Dryer	-----	1 set
2.5mm Allen Wrench	-----	1 piece
Mounting Screw M4*30	-----	1 piece
Plastic Expansion Screw 6*30	-----	1 piece
Manual	-----	1 piece