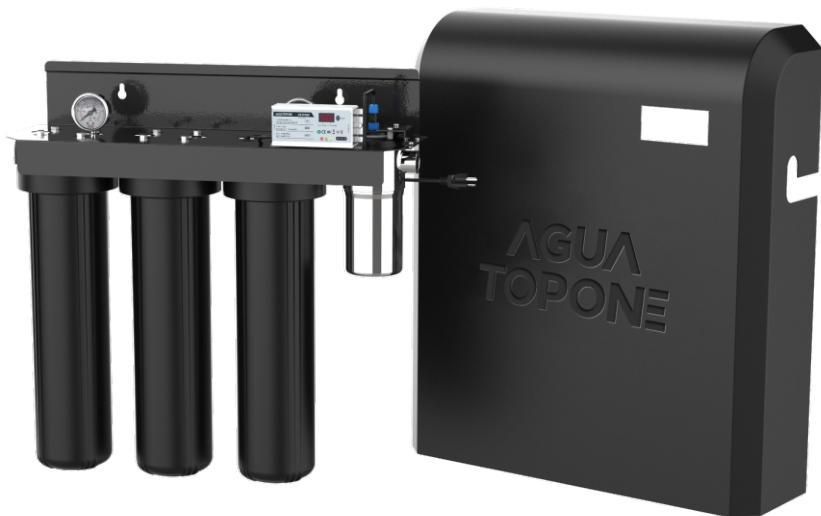


# AGUA TOPONE

**WHOLE HOUSE**  
WATER PURIFICATION SYSTEM

## Owner's Manual



\*For illustrative purposes only.

### CLEAN & SAFE

PRE-FILTRATION & UV WATER PURIFIER  
ALL-IN-ONE

Models:

VPS-103C VPS-203C VPS-104C VPS-204C  
VPS-103 VPS-203 VPS-104 VPS-204



VP5-103



VP5-103C



VP5-104



VP5-104C



VP5-203



VP5-203C



VP5-204



VP5-204C

Congratulations on the purchase of your UVC LED WHOLE house water purification system!

This system uses the most advanced UVC LED technology on the market and is designed to provide you with years of trouble free operation with minimal maintenance required to protect your drinking water from microbiological contaminants.

VPS Whole House Water Purification System combines up to 2/3 big blue filter housings and a UVC LED unit into one simple, clean looking and integrated product line. Manufactured from high grade steel and finished in a tough powder coat , the system will stay looking good as new and give years of free of impurities water if maintained and installed properly.

The VPS system cartridges and UVC LED module need replacing regularly to maintain optimum performance. This is a simple procedure when following instructions, for replacements contact your local dealer.

VPS systems speed installation, easy to service and provide lasting value. Ideal for home, cottages and treated harvested rainwater, but also can be used in other situations.

Have questions of water supply please contact your local dealer or plumber.

# 1.SAFETY INFORMATION

Please read this entire manual before operating this equipment. Pay attention to all danger, warning, and caution statements in this manual. Failure to do so could result in serious personal injury or damage to the equipment.

Make sure that the protection provided by this equipment is not impaired. DO NOT use or install this equipment in any manner other than that specified in the installation manual.

## 1.1 Potential Hazards

|                                                                                     |                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Waste electrical and electronic equipment (WEEE). This symbol Indicates that you should not discard wasted electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling /reuse or hazardous waste center. |
|    | This symbol indicates not to store any combustile or flammable material close to the system                                                                                                                                                            |
|    | This is the safety alert symbol. Obey all safety messages that follow this symbol to avoid potential injury. When on the equipment, refer to the operational and maintenance manual for additional safety information.                                 |
|    | This symbol indicates safety glasses with side protection is required for protection against UV exposure.                                                                                                                                              |
|   | This symbol indicates a risk of electrical shock and/or electrocution exists.                                                                                                                                                                          |
|  | This symbol indicates gloves must be worn.                                                                                                                                                                                                             |
|  | This symbol indicates the marked equipment may contain a component that can eject forcibly. Obey all procedures to safely depressurize.                                                                                                                |
|  | This symbol indicates safety boots must be worn.                                                                                                                                                                                                       |
|  | This symbol indicates the system is under pressure.                                                                                                                                                                                                    |
|  | This symbol indicates the operator must read all available documentation to perform required procedures.                                                                                                                                               |
|  | This symbol indicates there is a potential UV hazard. Proper protection must be worn.                                                                                                                                                                  |

|                                                                                   |                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | This symbol indicates the plumber must use copper piping.                                                                                                                                   |
|  | This symbol indicates the marked item could be hot and should not be touched without care.                                                                                                  |
|  | This symbol indicates that the system should only be connected to a properly grounded, grounding-type controller receptacle that is protected by a Ground Fault Circuit Interrupter (GFCI). |
|  | This symbol indicates there is a potential for VERY hot water when flow is started.                                                                                                         |

## 1.2 Safety Precautions

 **DANGER**



Failure to follow these instructions will result in serious injury or death.

- **Electric Shock:** To avoid possible electric shock, special care should be taken since water is present near the electrical equipment. Unless a situation is encountered that is explicitly addressed by the provided maintenance and troubleshooting sections, DO NOT attempt repairs yourself, refer to an authorized service facility.
- **DO NOT** operate the UVC LED unit if it has a damaged cord or plug, if it is malfunctioning or if it has been dropped or damaged in any manner.
- **DO NOT** use this whole house water system for other than intended use (potable water applications). The use of attachments not recommended or sold by the manufacturer / distributor may cause an unsafe condition.
- **DO NOT** install this whole house water system where it will be exposed to the weather or to temperatures below freezing.
- **DO NOT** store this whole house water system where it will be exposed to the weather.
- **DO NOT** store this whole house water system where it will be exposed to temperatures below freezing unless all water has been drained from it and the water supply has been disconnected.



## WARNING



- This system contains a UVC LED module. Do not operate the UVC LED module when it is removed from the chamber. Unintended use or damage of the system may result in the exposure of dangerous UV radiation. UV radiation may, even in little doses, cause harm to the eyes and skin.
- Changes or modifications made to this system without the consent of the manufacturer could render the system unsafe for operation and may void the manufacturer's warranty.



## CAUTION



Failure to follow these instructions could result in minor or moderate injury.

- Carefully examine the whole house water system after installation. It should not be plugged in if there is water on parts not intended to be wet such as, the controller.

## NOTICE

- The UVC LED module inside the system is rated at an effective life of approximately 5000 hours. To ensure continuous protection, replace the module regularly
- The UVC LED unit is not to be used or played with by children. Persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, are also not to handle the UVC LED unit unless they have been given supervision or instruction.
- This system is intended to be permanently connected to the water lines. Can not be used in or above water or outdoors or used in swimming pools when persons are in the pool.
- **EXTENSION CORDS:** If an extension cord is necessary, use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole cord connectors that accept the plug from this system. Use only extension cords that are intended for outdoor use. Use only extension cords having an electrical rating not less than the rating of the system. A cord rated for less amperes or watts than this system rating may overheat. Exercise caution when arranging the cord so that it will not be tripped over or pulled. **DO NOT** use damaged extension cords. Examine extension cord before using and replace if damaged. **DO NOT** abuse extension cord. Keep extension cord away from heat and sharp edges.
- Always disconnect the extension cord from the receptacle before disconnecting this system from the extension cord. Never yank cord to pull plug from outlet. Always grasp the plug and pull to disconnect.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- **SYSTEM PROTECTION:** To protect your Controller, a UL1449 certified (or equivalent) transient voltage surge suppressor is strongly recommended.
- Read and understand the Owner's Manual before operating and performing any maintenance on this equipment.



### 1.3 Water Quality

It is strongly recommended that you have your raw water professionally tested for dissolved mineral content, turbidity and microbiological activity. Your UVC LED unit system requires clean, clear water for optimum performance. You should only operate your unit if the source water meets the following minimum standards:

|                          |           |
|--------------------------|-----------|
| Turbidity                | <1NTU     |
| Color                    | None      |
| Total Iron               | <0.3 mg/L |
| Hardness                 | <7 gpg    |
| UV Transmittance         | > 90%     |
| Water temperature range: | 4°C -37°C |

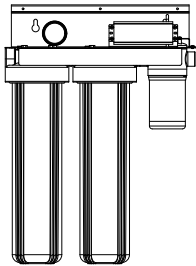
Where raw water conditions do not meet these minimum standards, pre-filtration treatment equipment such as an inline or automatic filter, ion exchange softener or an RO system must be installed. Consult with your local water treatment specialist for advice.

## 2.UNPACKING AND INSTALLATION

Removing your VPS system from its carton. You should check all components, to ensure all are present and have not been damaged in transportation. Depending on your model, you should have:

1.VPS system (with double or triple filtration , UVC LED, cover\* and Filter cartridge pre-installed)

\*For VPS- 103C, 104C, 203C, 204C only.



### 2.Accessory bag



Manual



Housing Wrench



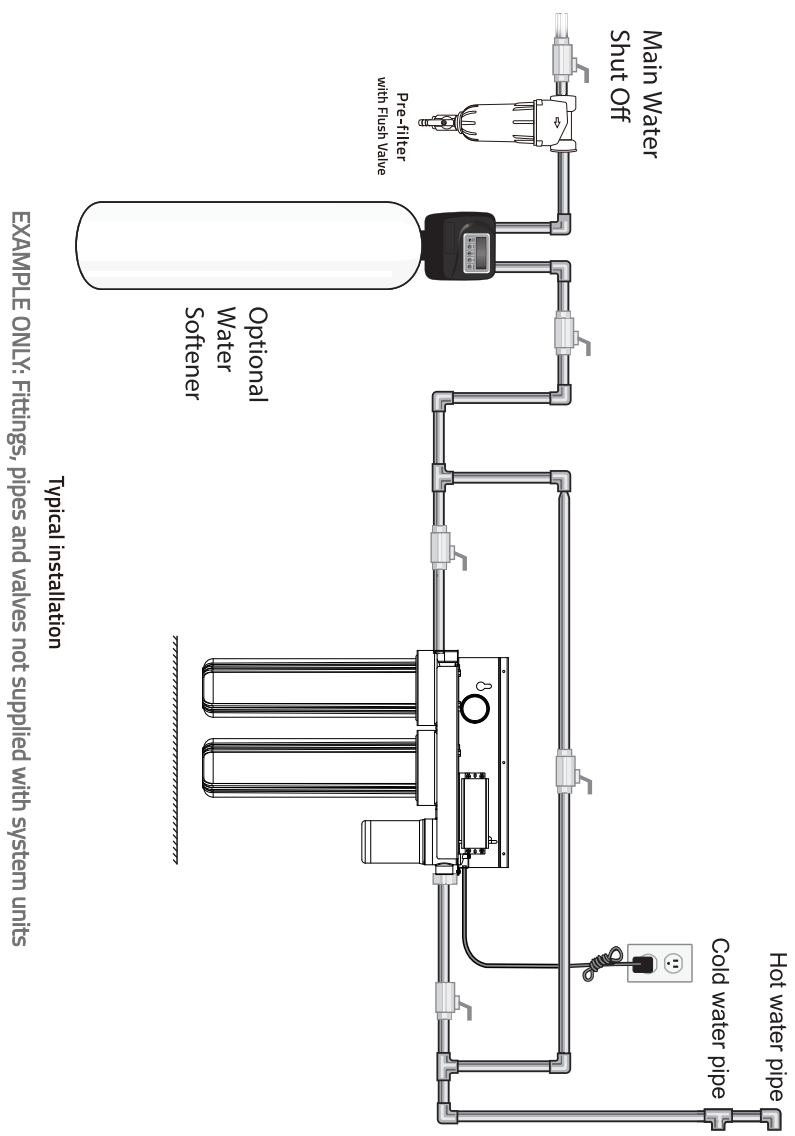
UVC LED chamber wrench

## Step 1: Selecting the system location

VPS system should be mounted closed to where the water line enters the building to ensure the water used in the dwelling is treated. Do not install in a location with high humidity, direct sun or a direct source of heat.

Locate a suitable position for this system remembering to allow 120mm under units with 20” housings and 700mm clearance above the unit for cartridge and UVC LED module changes. A standard 110V or 220V power plug nearby is required.

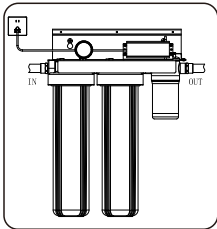
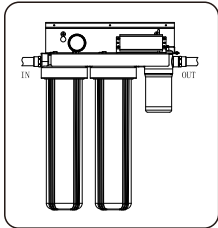
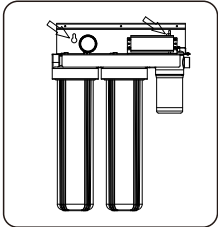
Step 2: Installation procedure



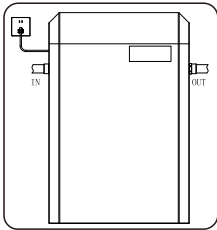
1. Inspect the cold water supply line to the dwelling and the condition of the pipe. Consult your plumber or plumbing supply store to purchase the appropriate connections to cut into the water line and connect the filter system. The inlet and outlet of the system are 1" inch.

2. VPS series system have 2 mounting key holes at the rear of the bracket. Use the template (not supplied) to mark the desired position on the wall where the fixings are required to go. Please make sure this system located into a stud, masonry or reinforced wall section and that the bracket is level.

3. Turn off water and purge the lines. Plumb inlet and outlet pipe work to VPS system. Please use thread seal tape, DO NOT use liquid sealants. DO NOT connect PVC pipe directly to the system. Make sure the connections to the VPS system comply with the local plumbing code.



4. Plug in the power, turn on the water supply for testing, and check for any leaks. Observe whether the UVC LED unit status indicator turns on and off with the water flow.



5. Place the cover\* over the system, let the water run for about 5 minutes to flush the pipes and equipment, and then it is ready for normal use.

\* VPS- 103C/ 104C/ 203C/ 204C comes with cover,  
VPS- 103/ 104/ 203/ 204 without cover.

### Step 3: Disinfection procedure



THE FOLLOWING DISINFECTION PROCEDURE IS GENERALLY ACCEPTED AS BEING SUITABLE FOR THE DISINFECTION OF PLUMBING SYSTEMS KNOWN TO BE CONTAMINATED.

IF YOU ARE UNCERTAIN ABOUT THE EFICCACY OF THIS PROCEDURE YOU ARE ADVISED TO CONTACT THE LOCAL HEALTH AUTHORITY RESPONSIBLE FOR WATER SAFETY.

As the UV disinfection process takes place only in the UVC LED chamber and the process provides no residual disinfection capability, therefore it is necessary to chemically disinfect the entire plumbing system before using water treated by the UVC LED.

- 1.Ensure the ballast is plugged in for entire disinfection process. Turn the UV system shut off valves to the closed position.
- 2.Remove the housing with wrench, adding 250mL -500mL (1 - 2 cups) of standard 5.25% concentration un-scented chlorine bleach to the empty filter housing and re-installing.
- 3.Verify that the UVC LED unit is connected to the AC power voltage and operating properly.
- 4.Turn the valves to the open position and let the water flow.
- 5.Open all faucets, fixtures and appliances in turn until you can easily smell chlorine. Close the fixtures and let the system sit for 30-60 minutes. DO NOT use or consume system water during this process.
- 6.Shut off the water supply, remove and re-install filter cartridge and housings. Open the valve and keep flushing 5 minutes thoroughly.

3. MAINTENANCE

 **WARNING**

- Always disconnect power before performing any work on the system.
- Always shut-off water flow and release water pressure before servicing.
- Regularly inspect system to ensure that the power indicators are on and no alarms are present.
- Replace the UVC LED module every 5000 hours to ensure maximum disinfection.
- Always drain chamber when closing a seasonal home or leaving the unit in an area subject to freezing temperatures.

3.1 Driver Operation

A. Standby Mode

Plug in the power. The driver enters Standby Mode without water flowing. Panel display "5000" to indicate remaining lifespan of UV LED as 5,000 hours. Yellow Standby indicator lights up.



B. Normal Operation Mode

Trigger condition: Water is flowing. Indicators: Green "Working" indicator lights up. The decimal point in the lower-right corner flashes once per second to show timing. Lifespan countdown: The panel number decreases by 1 (e.g., 5000 4999) after each 3,600 seconds of cumulative operation.



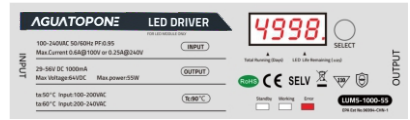
C. Timer Delay Shutdown Mode

Turns off the tap, no water running in the UV LED chamber, driver enters Timer Delay Shutdown Mode. After turning off the tap, the UV LED will keep working 5 seconds and the driver panel will countdown from 5 to 0, guarantee the water in the UV LED reactor fully disinfected.



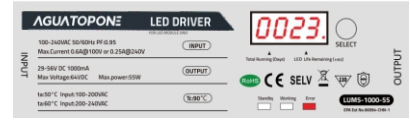
## D. Error Mode

If the UVC LED module is damaged or disconnected, the red "Error" indicators keep flashing, buzzer sound alarm to remind the inspection or repair.



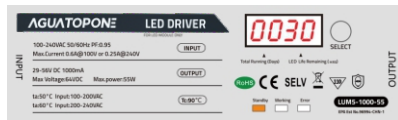
## E. End-of-Life Alarm Status

The UVC LED with cumulative lifespan 5,000 hours. When the remaining lifespan drops to 23 hours or less, the red "Error" indicator will flash, buzzer sound alarm to remind. To ensure the most efficient working, please replace the UVC LED module promptly.



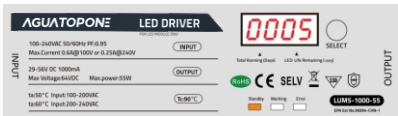
## F. Time Reset

After replacing the UVC LED module, keep pressing the "SELECT" button for 10 seconds until the display panel rests to the number "5000". Reset completed.



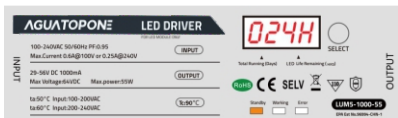
## G. Cumulative Power-on Time Interface

In Standby Mode, press the "SELECT" button to enter the Cumulative Power-On Time interface. (e.g. 30 means the driver has been continuously powered on for 30 days). NOTICE! For record use only cannot be reset.



## H. Timer Delay Shutdown Interface

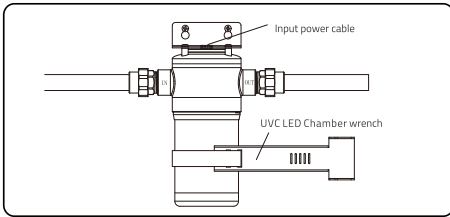
In Standby Mode, press the "SELECT" button two times to enter the Timer Delay Shutdown Interface. The driver panel number "0005" indicates the UVC LED will keep lighting up for 5 seconds after no water flowing through. NOTE! Factory settings for delay seconds. Cannot be modified by the user.



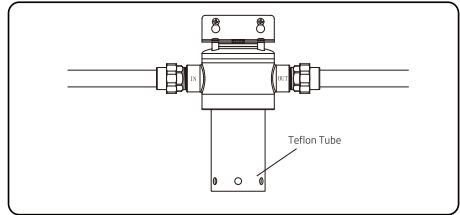
## I. Scheduled Startup Interface

In Standby Mode, press the "SELECT" button three times to enter the Scheduled Startup Interface. The driver panel number "024H" indicates the factory set up for Scheduled Startup Cycle is 24 hours. To guarantee the water in the reactor always been disinfected completely. When the Scheduled Startup occur, the UVC LED will light up 5 seconds.

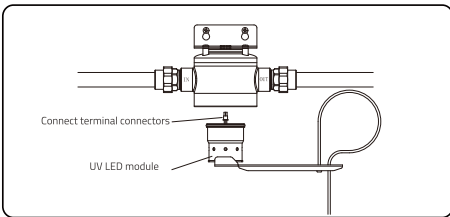
## 3.2 Replacing UVC LED module



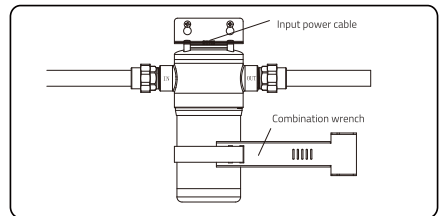
1. Power off. Remove the UVC LED chamber counterclockwise with wrench. Clean thoroughly.



2. Remove the teflon tube, clean thoroughly.



3. Unscrew LED module counterclockwise with wrench, unplug the terminal. Replace with new LED module and re-connect the terminal. Tight with wrench.



4. Tighten clockwise with wrench for the LED module and teflon tube.  
5. Power plug in, turn on the tap, make sure no leak.

## 3.3 Replacing cartridge

1. Turn off water supply. Press down the red button on the top of filter to relieve pressure.
2. Remove the filter housing with wrench. A pail nearby recommended.
3. Pull out and remove the old cartridge, Rinse filter housing.
4. Replace with new filter cartridge, Make sure the cartridge is centered and O-rings seated properly.
5. Tighten housing with wrench. Do not over-tighten.
6. Turns on the water supply to flush 2-3 minutes. Make sure no leakage.
7. Repeat each housing replacement.

4.SPECIFICATIONS

| Models                                                   | VPS-103C    | VPS-203C | VPS-104C | VPS-204C | VPS-103     | VPS-203 | VPS-104 | VPS-204 |
|----------------------------------------------------------|-------------|----------|----------|----------|-------------|---------|---------|---------|
| With Cover                                               | YES         |          |          |          | NO          |         |         |         |
| Operating pressure                                       | 10-100PSI   |          |          |          | 10-100PSI   |         |         |         |
| Ambient air temperature                                  | 4-37°C      |          |          |          | 4-37°C      |         |         |         |
| Maximum hardness                                         | 120 ppm     |          |          |          | 120 ppm     |         |         |         |
| Maximum iron                                             | 0.3 ppm     |          |          |          | 0.3 ppm     |         |         |         |
| Minimum UVT                                              | 90%         |          |          |          | 90%         |         |         |         |
| Flow Rates <sup>1</sup>                                  |             |          |          |          |             |         |         |         |
| Maximum rated flow at dose of 16 mJ/cm <sup>2</sup>      | 57LPM       | 85LPM    | 57LPM    | 85LPM    | 57LPM       | 85LPM   | 57LPM   | 85LPM   |
| Maximum rated flow at dose of 30mJ/cm <sup>2</sup>       | 30LPM       | 45LPM    | 30LPM    | 45LPM    | 30LPM       | 45LPM   | 30LPM   | 45LPM   |
| Maximum rated flow at dose of 40mJ/cm <sup>2</sup>       | 23LPM       | 34LPM    | 23LPM    | 34LPM    | 23LPM       | 34LPM   | 23LPM   | 34LPM   |
| Electrical                                               |             |          |          |          |             |         |         |         |
| Voltage                                                  | 100-240V AC |          |          |          | 100-240V AC |         |         |         |
| Frequency                                                | 50/60Hz     |          |          |          | 50/60Hz     |         |         |         |
| Lamp power                                               | 50W         |          |          |          | 50W         |         |         |         |
| Other                                                    |             |          |          |          |             |         |         |         |
| UV Chamber Material                                      | SUS 304     |          |          |          | SUS 304     |         |         |         |
| Inlet/Outlet                                             | 1" inch     |          |          |          | 1" inch     |         |         |         |
| Other                                                    |             |          |          |          |             |         |         |         |
| Rated service life of lamp                               | 5000 hours  |          |          |          | 5000 hours  |         |         |         |
| UV System Certification                                  | CE          |          |          |          | CE          |         |         |         |
| 1. The max flow rate is determined by the carbon filter. |             |          |          |          |             |         |         |         |

# 5.WARRANTY

## 1-Year Limited Warranty for the UVC LED Chamber

We warrant the UV chamber on the VPS product to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this time, we will repair or replace, at its option, any defective VPS product. Please return the defective part to a dealer, who will return it to us. We will either make the necessary repairs or, if it is determined that a replacement is required, we will provide a replacement part. We will then return the part to the dealer . This warranty does not include shipping and handling charges which will be collected from you by the dealer. Parts repaired or replaced under this one (1) year warranty will be covered under warranty to the end of the original one (1) year warranty period. This warranty is also subject to the conditions and limitations outlined under the heading "General Conditions and Limitations" below.

## One Year Limited Warranty for Structural, Hardware and Electrical Components

We warrant the structural, hardware, and electrical components to be free from defects in material and workmanship for a period of One(1) year from the date of purchase. During this time, we will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer who will process your claim. This warranty does not include shipping and handling charges which will be collected from you by the dealer.

## One-Year Limited Warranty for UVC LED module

We warrant original UVC LED module to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this time, we will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer who will process your claim. This warranty does not include shipping and handling charges which will be collected from you by the dealer.

## General Conditions and Limitations

None of the above warranties cover damage caused by improper use or maintenance, accidents, acts of God or minor scratches or imperfections that do not materially impair the operation of the product. The warranties also do not cover products that are not installed as outlined in the applicable Owner's Manual. Parts repaired or replaced under these warranties will be covered under warranty up to the end of the warranty period applicable to the original part.

The above warranties do not include the cost of shipping and handling of returned items. The limited warranties described above are the only warranties applicable to the VPS range of products. These limited warranties outline the exclusive remedy for all claims based on a failure of or defect in any of these products, whether the claim is based on contract, tort (including negligence), strict liability or otherwise. These warranties are in lieu of all other warranties whether written, oral, implied or statutory. Without limitation, no warranty of merchantability or of fitness for a particular purpose shall apply to any of these products.

We do not assume any liability for personal injury or property damage caused by the use or misuse of any of the above products. We shall not in any event be liable for special, incidental, indirect or consequential damages. Our liability shall, in all instances, be limited to repair or replacement of the defective product or part and this liability will terminate upon expiration of the applicable warranty period.

## GUARANTEE CARD

Type :

Supplier :

Serial number :

Date of Purchase :

Stamp / Signature :

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## GUARANTEE CARD

Type :

Supplier :

Serial number :

Date of Purchase :

Stamp / Signature :

Please return the guarantee card to us, because otherwise a possible warranty claim cannot be asserted.

**AGUA**  
Manufactured by: **TOPONE**  
Ningbo Zuanbang Technology Co., Ltd.  
ADD: NO.20 Kaiyuan Road, Xiepu Industrial Dist, Zhenhai, Ningbo, CHINA

