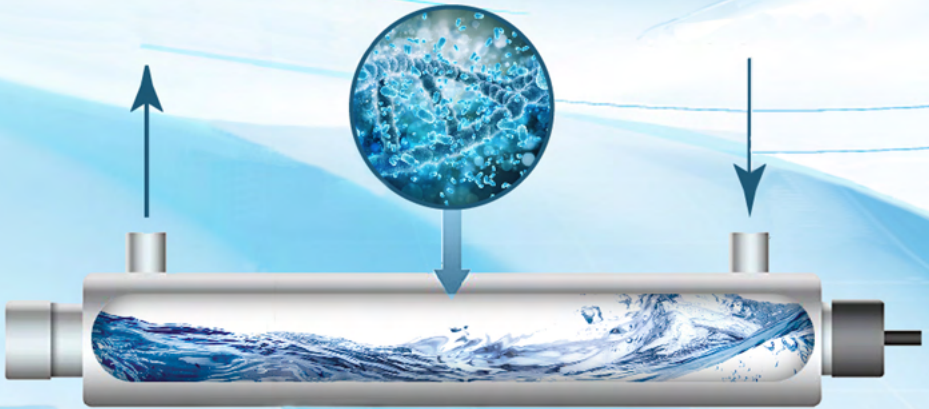




55W - 12GPM

110W - 24GPM

UV WATER FILTER

INSTALLATION MANUAL

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SAFETY WARNING

CAUTION

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



Carefully examine the disinfection system after installation. It should not be plugged in if there is water on parts not intended to be wet such as, the controller or lamp connector.



Due to thermal expansion concerns and potential material degradation due to UV exposure, it is recommended to use metal fittings and at least 10" of copper pipe on the outlet of your UV chamber.



Hg EXPOSURE: The UV lamp contains mercury. If the lamp breaks, then avoid inhalation or ingestion of the debris and avoid exposure to eyes and skin. Never use a vacuum cleaner to clean up a broken lamp as this may scatter the spilled mercury. Obey local regulations and guidelines for the removal and disposal of mercury waste.

NOTICE

- The UV system 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 UV system unless they have been given supervision or instruction.
- This system is intended to be permanently connected to the water lines and it is not intended to 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 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. **DO NOT** use damaged extension cords. Examine extension cord before using and replace if damaged. Always disconnect the extension cord from the receptacle before disconnecting this system from the extension cord.
- **SYSTEM PROTECTION:** To protect your Controller, a UL1449 certified (or equivalent) transient voltage surge suppressor is strongly recommended.
- The UV lamp in this system conforms to the applicable provisions of the Code of Federal Regulations (CFR) requirements including, Title 21, Chapter 1 Subchapter J, Radiological Health.

SAFETY WARNING

PRODUCT APPLICATION

- The water purifier is designed to mount horizontally or vertically.
- The water purifier's dual chamber heads are removable and may be rotated independently, which aids in the installation, maintenance or the retrofitting of an existing system.
- The water purifier's chamber and chamber head are passivated and electro polished type 304 Stainless Steel.
- Our end caps allow for quick and easy lamp change, without disconnecting from the water supply or draining the purifier. No tools are required.

PRINCIPLE OF OPERATION

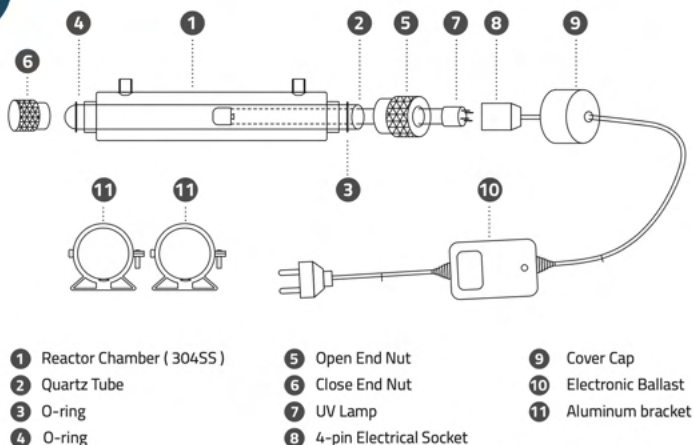
The Jordan™ Ultraviolet System has been carefully conceived to provide adequate germicidal dosage throughout the disinfection chamber. The dosage, as it applies to ultraviolet disinfection, is a function of time and the intensity of ultraviolet radiation to which the water is exposed. The exposure time, in seconds, is the total time it takes the water to flow through the disinfection chamber exposing it to the germicidal lamp. Exposure time is related to the flow rate; the higher the flow rate, the lower the exposure time or the lower the flow rate, the higher the exposure time. The ultraviolet intensity is the amount of energy, per unit time, emitted by the germicidal lamp. The dosage is the product of ultraviolet intensity and the exposure time. The operation of this UV system is as follows:

- Water enters the purifier and flows into the annular space between the quartz sleeve and the chamber wall.
- Suspended microorganisms are exposed to the ultraviolet rays emitted by the germicidal lamp.
- Water leaving the purifier is instantly ready for use, no further contact time is required.

LIMITATION OF USE

The water purifier is intended for the use with visually clear water, not colored, cloudy or turbid. See "Water Quality" section.

The water purifier is NOT intended for the treatment of water that has an obvious contamination or intentional source, such as raw sewage; nor is the unit intended to convert wastewater to microbiologically safe drinking water.



1. The water purifier is intended for indoor use only. The water purifier should be protected from the elements and from temperatures below freezing. The ambient temperature, in the area surrounding the water purifier, should be between 35°F and 100°F.

2. Electrical power supplied to the water purifier **MUST** match power requirements listed on the water purifier. Use of a voltage surge protector is recommended.

3. **CAUTION:** Install water purifier within 48" of a known good ground. Water Purifier will need to be installed into approved ground fault circuit interrupt (GFCI) receptacle. Where a 2-prong or unprotected 3-prong receptacle is encountered, it must be replaced by a properly grounded Ground Fault Circuit Interrupt (GFCI) receptacle. Installation must be in accordance with the National Electrical Code and any local codes and ordinances by a qualified electrician.

4. The water purifier should be located in a dry, well-lit area, which provides enough room to perform routine maintenance. This includes a minimum distance of one chamber length from the chamber end, to allow for cleaning and/or the changing of the lamp and quartz sleeve as well as a minimum of 6" on the opposite end of the water purifier. Minimum clearance to floor 18"

5. The water purifier should always be located closest to the point of use. This reduces the chance of the purified water being re-contaminated by bacteria in the water distribution system after the water purifier.

6. The water purifier should be located after all other water devices, such as De-ionizers, Water Softeners, Carbon Filters, Pre-Filters, Reverse Osmosis, Pressure Tanks, and Pumps. This reduces the chance of the purified water being re-contaminated by bacteria in any of these units.

STEP 2

SYSTEM INSTALLATION

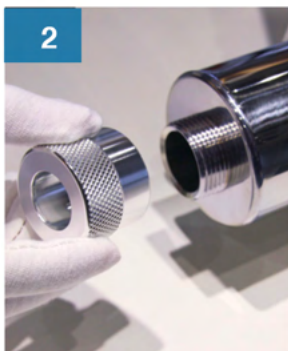


Reactor Chamber, UV Lamp, Quartz Tube, O-rings, Electronic Ballast.

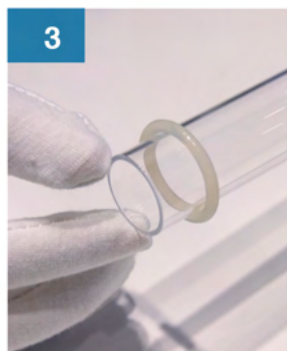
Make sure the Quartz Tube and UV Lamp are clean before installation (clean with alcohol or mild detergent). Wear soft non-abrasive gloves to keep any finger marks away from them



Remove the closed end nut from reactor chamber closed end



Remove the open end nut from reactor chamber open end.



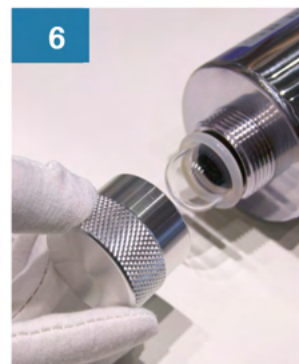
Install o-ring onto the open end of quartz tube (~0.5inch from the edge).



Insert the Quartz Tube into the Reactor Chamber.



Install o-ring onto the closed end of quartz tube.



Hand-screw closed end nut on the reactor chamber closed end of quartz tube) to protect the o-ring, do not over tighten.

STEP 2

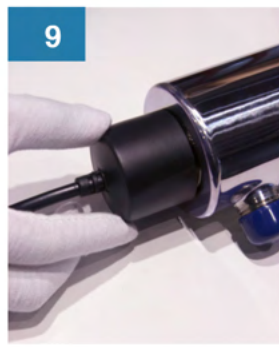
SYSTEM INSTALLATION



Connect the 4-pin electrical socket with UV lamp pins tightly.



Carefully insert the UV lamp into the quartz tube through open end nut.



Install the cover cap and hand-tighten onto open end nut .

10

Select a readily accessible and well lit location to fix the system. The system should always be located closest to the point of use and can either be installed horizontally or vertically.

11

When all plumbing connections are finished, slowly turn on the water supply and check for leaks.

12

Allow the water to run for a few minutes to clear any air or dust that may be in the Reactor Chamber. Connect the power for starting up



An LED indicator light, located on the ballast, provides visual indication of germicidal lamp operation. This provides an indication of lamp operation and does not indicate the level of ultraviolet intensity or transmission through the water. Ballasts have a built-in audio alarm which will indicate lamp failure.



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