# NSF / ANSI 55 Class “A” Certified 14.40C

**Drinking Water**

NSF/ANSI 55
Class “A”

System tested and certified by CSA against NSF/ANSI Standard 55 for disinfection performance class “A”

This Class A system conforms to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. The system is not intended to convert wastewater or raw sewage to drinking water. The system is intended to be installed on visually clear water.

NSF/ANSI 55 defines wastewater to include human and / or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and / or feces (blackwaste); and other waste materials deposited in plumbing fixtures (grey waste).

If this system is used for treatment of untreated surface waters or ground water under the direct influence of surface water, a device found to be in conformance for cyst reduction under the appropriate NSF/ANSI standard shall be installed upstream of the system.

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|---|---|
| Maximum rated Flow Rate @ 40mj/cm$^2$ note 1 | 14.5 gpm (54.8lpm) (3.28m$^3$/hr) |
| Dynamic Flow Regulator | yes |
| Isolated Solenoid Drive | yes |
| Cold Spot Fan™ | yes |
| Lamp watts | 84watts |
| Total watts | 103watts |
| AC Supply Voltage | 120V 47-63Hz (240V 47-63Hz) |
| Annual Lamp Change Timer | yes |
| Lamp Change Grace Period | 28 days maximum |
| Grace Period Audio Alarm Disable | yes (7day increments) |
| Reactor Chamber Material | 304 SS |
| Maximum Operating Pressure | 100psi (6.9bar) |
| Maximum Ambient Temperature | 40C (104F) |
| Water Temperature Range | 4 – 25C (40 – 77F) |
| Lamp Service Life | 9000hrs |
| Chamber Dimensions (L x D x W) | 39.75” x 4” x 6.5” (101 x 10.2 x 16.5cm) |
| Chamber diameter | 3.5” (8.9cm) |
| Controller Dimensions (L x D x W) | 10” x 1.7” x 2.3” (25.4 x 4.3 x 5.8cm) |
| Shipping Weight | 14lbs (6.8kg) |
| Inlet/Outlet Port Size | 1” MNPT inlet 1” MNPT outlet |

Note 1 – actual flow rate may be up to 12% less due to flow regulator variability

## APPLICATION GUIDELINES

➔ A Minimum 5 micron pre-filter required.

➔ Indoor use only – Select a mounting location for UV power source to protect it from condensation from the disinfection chamber and system piping.

➔ Clean the quartz sleeve regularly

➔ Water must meet the following minimum requirements for trouble free operation

| | |
|---|---|
| **Turbidity** | **< 1 NTU** |
| **Suspended Solids** | **< 10mg/L** |
| **Colour** | **None** |
| **Total Iron** | **< 0.3 mg/L** |
| **Manganese** | **< 0.05 mg/L** |
| **Hardness** | **<7 gpg** |
| **UVT%** | **> 80%** |

UV Dynamics

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