

# NSF / ANSI 55 Class "A" Certified Units



## Drinking Water

### NSF/ANSI 55 Class "A"

file #247580

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.



Product Specification	8.40C	11.40C	14.40C	20.40C
Maximum rated Flow Rate @ 40mj/cm <sup>2</sup> - note 1	8.7 gpm (32.9lpm) (1.97m <sup>3</sup> /hr)	11.0 gpm (41.6lpm) (2.49m <sup>3</sup> /hr)	14.5 gpm (54.8lpm) (3.28m <sup>3</sup> /hr)	20.2 gpm (76.4lpm) (4.58m <sup>3</sup> /hr)
Dynamic Flow Regulator	yes	yes	yes	yes
Isolated Solenoid Drive	yes	yes	yes	yes
Cold Spot Fan™	yes	yes	yes	yes
Lamp watts	49watts	64watts	84watts	112watts
Total watts	63watts	81watts	103watts	136watts
AC Supply Voltage	120V 47-63Hz (240V 47-63Hz)	120V 47-63Hz (240V 47-63Hz)	120V 47-63Hz. (240V 47-63Hz)	120V 47-63Hz (240V 47-63Hz )
Annual Lamp Change Timer	yes	yes	yes	yes
Lamp Change Grace Period	28 days maximum	28 days maximum	28 days maximum	28 days maximum
Grace Period Audio Alarm Disable	yes (7day increments)	yes (7day increments)	yes (7day increments)	yes (7day increments)
Reactor Chamber Material	304 SS	304SS	304SS	304SS
Maximum Operating Pressure	100psi (6.9bar)	100psi (6.9bar)	100psi (6.9bar)	100psi (6.9bar)
Maximum Ambient Temperature	40C (104F)	40C (104F)	40C (104F)	40C (104F)
Water Temperature Range	4 – 25C (40 – 77F)	4 – 25C (40 – 77F)	4 – 25C (40 – 77F)	4 – 25C (40 – 77F)
Lamp Service Life	9000hrs	9000hrs	9000hrs	9000hrs
Chamber Dimensions (L x D x W)	24.25" x 4" x 6.5" (61.6 x 10.2 x 16.5cm)	32.5" x 4" x 6.5" (82.5 x 10.2 x 16.5cm)	39.75" x 4" x 6.5" (101 x 10.2 x 16.5cm)	50.5" x 4" x 6.5" (128.3 x 10.2 x 16.5cm)
Chamber diameter	3.5" (8.9cm)	3.5" (8.9cm)	3.5" (8.9cm)	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)	10" x 1.7" x 2.3" (25.4 x 4.3x5.8cm)	10" x 1.7" x 2.3" (25.4 x 4.3 x 5.8cm)	10" x 1.7" x 2.3" (25.4 x 4.3 x 5.8cm)
Shipping Weight	11lbs (5kg)	13lbs (6kg)	15lbs (6.8kg)	19lbs (8.6kg)
Inlet/Outlet Port Size	¾" FNPT inlet ¾" MNPT outlet	¾" FNPT inlet ¾" MNPT outlet	¾" FNPT inlet ¾" MNPT outlet	1" FNPT / 1.25" MNPT Inlet & Outlet
<b>Replacement Components</b>				
Lamp Part Number – note 2	400269	400270	400158	400271
Quartz Sleeve Part Number – note 3	400273	400274	400323	400275

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

Note 2 – lamp should be changed annually

Note 3 – quartz sleeve should be changed annually



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(across from the Beer store plaza)  
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Note 2 – lamp should be changed annually

Note 3 – quartz sleeves should be replaced at three year intervals



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## 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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