

# NSF/ANSI 55 Class "A"



UVD8.40C pictured



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"

With flow rates ranging from 8 to 20 gallons per minute, the UVDynamics NSF 55 certified series is suitable for use in homes and cottages as well as small commercial and industrial installations.

With over 10 years of field experience, an easy to service system design, no disinfection by-products and a North American manufacturing facility, UVDynamics disinfection systems are **Proven, Affordable, and Environmentally Friendly.**

This product uses a proprietary extended cold spot lamp design along with an active temperature controlled cold spot cooling fan, resulting in improved lamp output maintenance during stagnant hot water conditions. The micro-processor controlled UV power source has both audio and visual alarm indicators to validate lamp operation and an integral annual lamp change reminder timer. The UV display indicates actual dose in  $\text{mj}/\text{cm}^2$  at rated flow.

Our proprietary UV power source technology and modern, vertically integrated manufacturing facility allow us to provide these high quality, full featured products at a competitive price.



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# NSF / ANSI 55 Class "A" Certified Units

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	10lbs (5kg)	13lbs (6kg)	14lbs (6.8kg)	17lbs (8.6kg)
Inlet/Outlet Port Size	¾" FNPT inlet ¾"MNPT outlet	1" MNPT inlet ¾"MNPT outlet	1" MNPT inlet 1" MNPT outlet	1" MNPT inlet 1" MNPT 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 sleeves should be replaced at three year intervals



## 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.

## 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

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



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