

The PURA® ABUV Series is an advanced Ultraviolet Water Disinfection System. It has been designed with you, the consumer, in mind. The system will provide you with disinfected drinking water for years to come. These systems have been designed with high quality construction and innovative features.

Disinfection of water using ultraviolet light at a wavelength at 254nm is a chemical free way of destroying the DNA of microorganisms rendering them unable to replicate or cause infection. The axial flow chamber design of the PURA® Stainless Steel Series, utilizes the energy from the Ultraviolet Lamp evenly across the water flow. Installation of the system is straight forward and simple. Maintenance includes changing the lamp once a year and cleaning the quartz sleeve periodically.

The PURA® BUV models are tested and certified by NSF against Standard 55 for Class B disinfection.



Typical Installation

Standard Features:

- Lamp Failure Visual and Audible Alarm
- Lamp Change Reminder
- Countdown Lamp Timer
- Axial Flow Design
- 115V / 60Hz North American 3-Prong Grounded Plug




Conditions for Use

Depending on the chemistry of the water to be disinfected by a PURA® Ultraviolet Water Disinfection System, additional pretreatment may be necessary. The following table outlines the basic parameters that need to be tested and treated should your water fall outside these parameters. An additional a 5 micron sediment and housing is recommended as a minimum pretreatment to guard against any large particles that may mask the ultraviolet light and also assist with startup procedures.

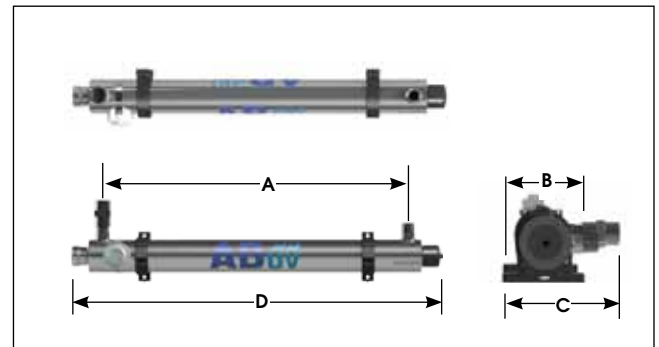
| | |
|------------------|------------------------|
| Iron (Fe) | < 0.3 ppm (0.3 mg/L) |
| Hardness* | < 7 gpg (120 mg/L) |
| Turbidity | < 1.0 NTU |
| Manganese (Mn) | < 0.05 ppm (0.05 mg/L) |
| Tannins | < 0.1 ppm (0,1 mg/L) |
| UV Transmittance | > 75%** |

*Where total hardness is less than 7 gpg, the UV unit should operate efficiently provided the quartz sleeve is cleaned periodically. If total hardness exceeds 7 gpg, the water should be softened.

**Call customer service for recommendations on applications where UVT < 75%.


| Specifications |  |  |  |
|--|---|---|---|
| Item # | 8880 | 8881 | 8882 |
| Model # | Buv-6 | Buv-8 | Buv-12 |
| NSF Rated Flow Rate @ 16mJ/cm ² @ 70% UVT - usgpm (l/min) | 5.5 (20.79) | 7.8 (29.48) | 12 (45.36) |
| Flow Rate @ 16 mJ/cm ² @ 96% UVT - usgpm (l/min) | 12 (45.36) | 18.8 (71) | 26 (98.28) |
| Flow Rate @ 30 mJ/cm ² @ 96% UVT - usgpm (L/min) | 6.4 (24.2) | 10 (37.8) | 13.9 (52.5) |
| Flow Rate @ 40 mJ/cm ² @ 96% UVT - usgpm (l/min) | 4.8 (18.14) | 7.5 (28.35) | 10.4 (39.31) |
| Lamp Power (Watt) | 21 | 29 | 40 |
| Max. Current (Amp) | 0.4 | 0.4 | 0.5 |
| Inlet and Outlet Size NPT | 1/2" | 3/4" | 1" |
| Weight lbs (kg) | 6 (2.67) | 8 (3.57) | 12 (5.36) |
| Operating Pressure psi (kpa) | 10-100 psi (69-689 kPa) | | |
| Operating Temperature Range | 36 to 104° F (2 to 40° C) | | |
| Electrical | 100-240V - 50/60Hz | | |
| Electrical Plug | North American | | |

| Dimensions | | | |
|---------------|------------|------------|-------------|
| A inches (cm) | 17.32 (44) | 23 (58.5) | 31.5 (80) |
| B inches (cm) | 2.5 (6.35) | 2.5 (6.35) | 2.5 (6.35) |
| C inches (cm) | 4.33 (11) | 4.33 (11) | 4.45 (11.3) |
| D inches (cm) | 21.65 (55) | 27.56 (70) | 36.61 (93) |



All models come with flow restrictors.

Lamp life: 8000-9000 hours of operation approximate 12 months of continuous service.

 **General operation and maintenance:** Quartz sleeve is to be cleaned every 6-12 months and to be replaced every 24 months. UV lamp is to be replaced every year.

While testing was performed under standard laboratory conditions, actual performance may vary.

This Class B system or component conforms to NSF/ANSI 55 for the supplemental bactericidal treatment disinfected public drinking water or other drinking water that has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is only designed to reduce normally occurring non-pathogenic nuisance microorganisms.

Class B systems are not intended for treatment of contaminated water.

The system and installation shall comply with applicable state and local regulations.

Limited Warranty: 7 years on reactor chamber, one year on lamp and sleeve, 2 years on other components. Check product manual for more details.



System Tested and Certified by
NSF International against NSF/
ANSI Standard 55 for Disinfection
Performance, Class B

WaterGroup Companies Inc.

Regina, SK; Cambridge, ON; Fridley, MN
www.watergroup.com