

# **PURA**<sup>™</sup>

## **Stainless Steel Ultraviolet Disinfection**

The PURA UVSS 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 the 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, (in the bottom and out the side) utilizes the energy from the Ultraviolet Lamp evenly across the water flow.

Installation and maintenance is straight forward and simple. Maintenance includes changing the lamp once a year and cleaning the quartz sleeve periodically.



## UVSS Models

The PURA® UVSS models include the following:

### Standard Features:

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

### Options:

- Solenoid Valves for UVSS-M models equipped with a Solenoid Output
- 220V / 50 Hz models equipped with 2-prong Euro 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 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%.

## Warranty

PURA Ultraviolet Water Disinfection Systems are warranted to be free from defects in materials and workmanship for a period of;

- 7 Year on the stainless steel reactor chamber
- 1 Year on the UV lamps and quartz sleeve
- 5 Year Pro-rated warranty on all other components

## Specifications

Item Number	Model Number	Flow Rate* @ 16 mJ/cm <sup>2</sup> usgpm (L/min)	Flow Rate* @ 30 mJ/cm <sup>2</sup> usgpm (L/min)	Flow Rate* @ 40 mJ/cm <sup>2</sup> usgpm (L/min)	Lamp Watts	Inlet/ Outlet Size	UV Chamber Size (D x L) inches (cm)	Control Box Size (L x W x H) inches (cm)	Weight lbs (kg)
07-8750	UVSS-6	11 (42)	6 (23)	4.5 (17)	25	3/4" NPT	2.5" x 22" (6 x 58)	7.3" x 3.2" x 2.5" (18.5 x 8 x 6.4)	7 (3.2)
07-8751	UVSS-10	20 (76)	10 (38)	7.7 (29)	37	3/4" NPT	2.5" x 36" (6 x 91)	7.3" x 3.2" x 2.5" (18.5 x 8 x 6.4)	11 (5.0)
07-8752	UVSS-15	29 (110)	15 (57)	11 (42)	39	1.5" NPT	3.5" x 38" (9 x 97)	7.3" x 3.2" x 2.5" (18.5 x 8 x 6.4)	14 (6.4)
07-8753	UVSS-6M	11 (42)	6 (23)	4.5 (17)	25	3/4" NPT	2.5" x 22" (6 x 58)	8.3" x 3.2" x 2.5" (21 x 8 x 6.4)	8 (3.6)
07-8754	UVSS-10M	20 (76)	10 (38)	7.7 (29)	37	3/4" NPT	2.5" x 36" (6 x 91)	8.3" x 3.2" x 2.5" (21 x 8 x 6.4)	12 (5.5)
07-8755	UVSS-15M	29 (110)	15 (57)	11 (42)	39	1.5" NPT	3.5" x 38" (9 x 97)	8.3" x 3.2" x 2.5" (21 x 8 x 6.4)	15 (6.8)

\* All Flow Rates rated at 96% UVT at End of Lamp life  
Maximum Operating pressure = 125psi (862 kPa)  
Operating Temperature Range = 36 to 104°F (2 to 40°C)

## UVSS-M Models

The PURA® UVSS-M models are constructed with all the features of the UVSS models plus the following:

### Additional Features:

- UV Sensor to Monitor the Disinfection Dosage
- Solenoid Output shuts down water flow using optional solenoid valve upon Lamp Failure, Power Failure or Low UV Intensity Alarm



The manufacturer reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change.



2880 45th Ave. SE, Unit 340, Calgary, AB T2B 3M1  
265 Industrial Road, Cambridge, ON N3H 5N3

[www.petwa.ca](http://www.petwa.ca)