

Ultraviolet Water Disinfection Systems from VIQUA

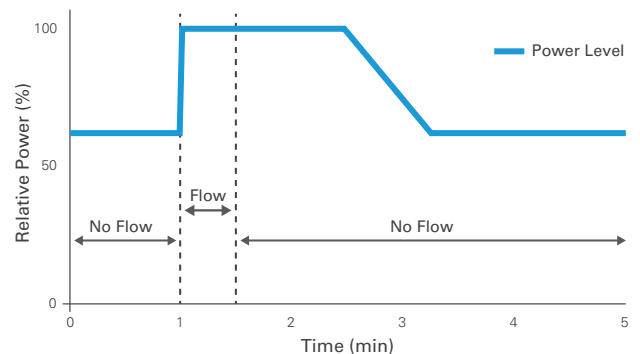
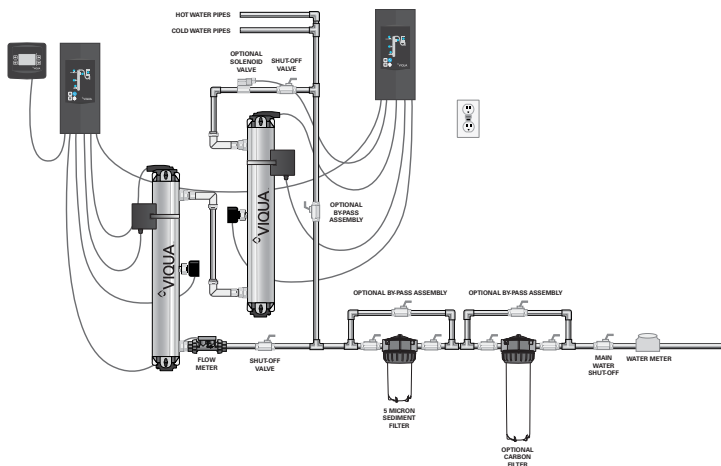
VIQUA's 4-Log Adenovirus UV water disinfection system makes complying with the Ground Water Rule and LT2 regulations a lot easier. These systems provide a 186 mJ/cm² UV dose for 4-log reduction of viruses, including Adenovirus.

The PRO24-186 systems are fully validated to UVDGM protocol for 4-log Adenovirus reduction. 4-log virus validated UV disinfection equipment provides significantly greater community safety and peace of mind for small public water systems.

The VIQUA PRO24-186 system provides safe drinking water for small public water systems (PWS), in accordance with state, provincial, and federal regulations. As PWS get smaller, the available capacity for testing, metering, and monitoring becomes a challenge. The PRO24-186 is designed to measure and log UV dose and flow, and with a four-point stepped validation, ensures safety and compliance at all times.

Public Water Applications

- Churches
- Schools
- Rest Areas
- Bed & Breakfasts
- Community Centers
- Restaurants
- Camps
- Dairy Farms
- Swine Farms
- Poultry Farms

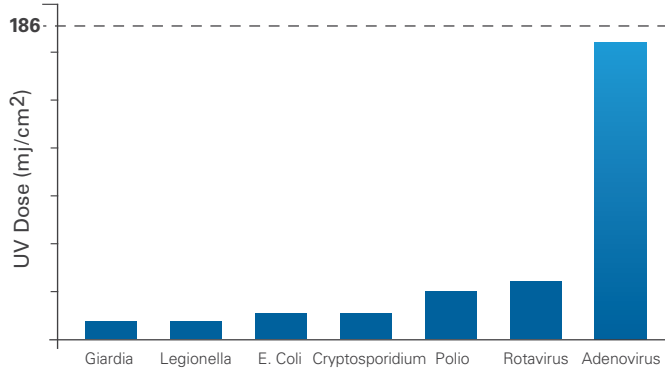


VIQUA's new LightWise technology allows the system to reduce lamp power during periods of no flow.

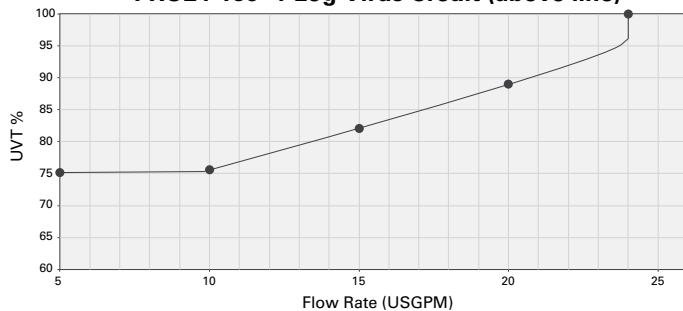
Features of VIQUA UV water disinfection systems

- 3rd party validated for Adenovirus (4-log virus) for 24 gpm (45 lpm) flow at an applied UV dose of 186 mJ/cm².
- 2 chamber, ultra-high output VIQUA amalgam UV lamps with Cool-Touch fan technology.
- The CoolTouch Fan significantly reduces water temperature and does not waste any water.
- For the sleeve bolts a quarter-twist to the positive stop and you're done. No tools, no risk of over-tightening.
- Like a standard plug - no more grounding wires!
- The optional plug-and-play solenoid valve stops water flow in the event that water treatment is compromised.
- Flexibility to connect to either 1¼" MNPT or 1" FNPT
- Our revolutionary amalgam lamps reduce maintenance requirements by lasting up to 2 years.
- Intuitive Interface - a picture is worth a thousand words.
- With plug-and-play colour coded connections, it's as easy as "connect the dots."
- The COMMcenter displays UV dose!
- Flow sensor monitors flow to provide real time UV dose.
- The UVMAX systems use a revolutionary lamp with twice the output of current high-output lamps, giving you compact single-lamp systems that are half the size of their predecessors.
- LightWise Technology allows the controller to reduce lamp power during periods of no water flow. By adjusting the lamp power, water temperature is maintained below 40°C (104°F), the rate of sleeve fouling is consequently reduced by as much as 60%, resulting in estimated energy savings of 30%.

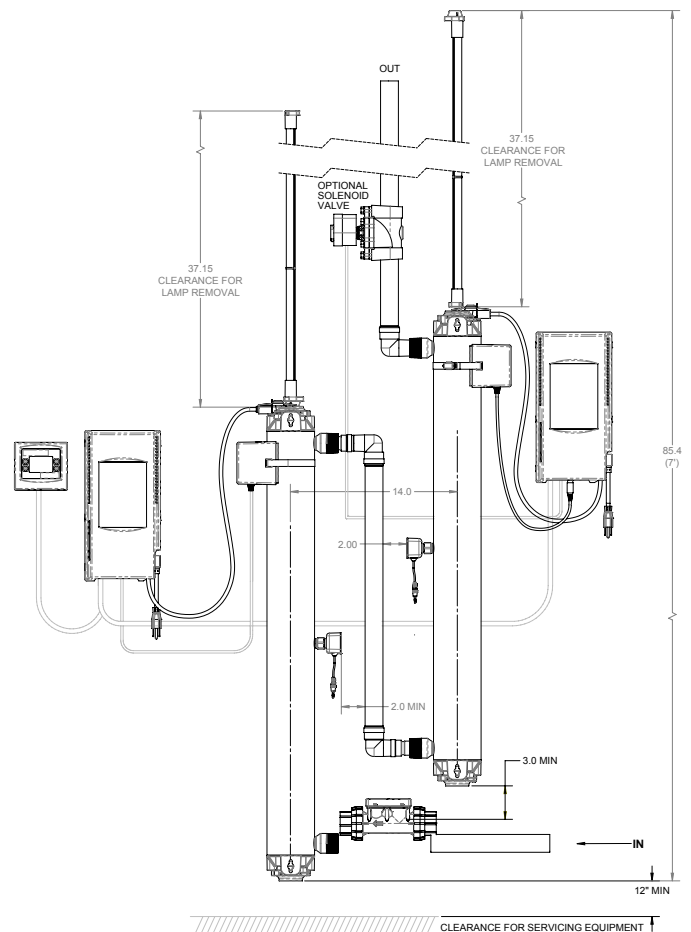
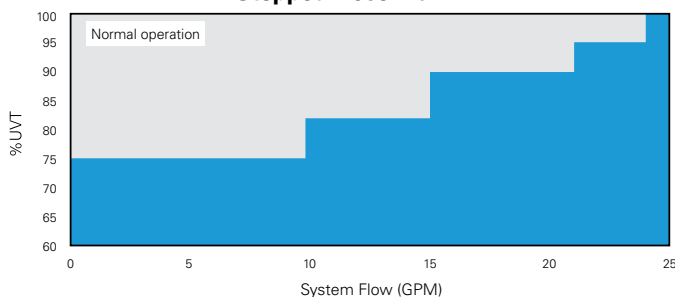
USEPA requirement for 4-log inactivation of viruses



PRO24-186 4-Log Virus Credit (above line)



Stepped Dose Alarm



Specifications



MODEL	PRO24-186
FLOW RATES	
UV Dose	186 mJ/cm²
Validated Flow	10/15/20/24 GPM (38/57/75/90 lpm) <i>UVT Dependant*</i> (2.3/3.4/4.5/5.4 m³/hr)
Validated UVT	75%/85%/90%/95%
DIMENSIONS	
Chamber	41" x 18" (103 cm x 45 cm)
Controller	13" X 6 1/2" x 4 1/2" (33 cm x 16.5 cm x 11.5 cm)
Inlet/Outlet Port Size	1 1/4" MNPT / 1" FNPT COMBO
Shipping Weight	63 lbs (29 kg)
ELECTRICAL	
Voltage	100-240V / 50/60 Hz
Power Consumption	460 W
Maximum Operating Pressure	125 psi (8.62 bar)
Influent Water Temperature	2-40°C (36-104°F)
FEATURES	
Visual "Power On"	YES
Chamber Material	316 SS
Visual Lamp Life Remaining	YES
Audible Lamp Failure	YES
Audible Lamp Replacement Reminder	YES
UV Sensor	YES
Sensor Reading Output (4-20mA)	Optional
Flow Meter	YES
Cool Touch Fan	YES

* Please refer to the Validation Charts for alternate UVT validated flow rates

Replacement Parts

602850-103 (QUANTITY 2) – lamp & quartz sleeve kit	
602856 (QUANTITY 2) – lamp	650709-013 – controller
602976 (QUANTITY 2) – quartz sleeve	410982R-30 – flow meter
650580 (QUANTITY 2) – UV sensor	270288-R – COMMcenter

Water Quality Parameters

Hardness	Iron	Tannins
< 7 grains (120 mg/L)	< 0.3 mg/L	< 0.1 mg/L



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