

Alternative Treatment Technology Units Meeting Validation Test Criteria

Oregon Administrative Rule 333-061-0050(5)(k)(I)
Oregon Health Authority, Drinking Water Services (DWS)

ULTRAVIOLET REACTORS

(Other reactors not on this list may meet the criteria. Contact DWS for details on verifications for reactors not listed.)					
Manufacturer	Model	Log ₁₀ Inactivation Credit **			Max. Flow (gpm)
		Crypto.	Giardia	Virus	
Neotech	D438	3.5	3.5	0	435
Trojan	UVSwiftSC™ D12	3.5+	3.5+	4.0+	3,000
	UVSwiftSC™ B03	3.5	3.5	0	132
	UVSwift™ 2L12	3.5 *	3.5 *	0	4,500
	UVSwift™ 4L12	3.5 *	3.5 *	0	4,500
Viqua	Pro50/SV50/Sterilight50	3.5	3.5	0	70
	Pro50/SV50/Sterilight50	3.0	3.0	0	80
	Pro24-186	5.5+	5.5+	4.0	24
Calgon	Sentinel 24" 9-lamp	4.0	4.0	0	19,600
atg	UV SP-25-6	3.0	3.0	0	495
Wedeco	Spektron 250e	4.0	4.0	0	7,300
	BX100	3.0	3.0	0	387
	B400XL	3.0	3.0	0	1,760
	LBX1000	4.0	4.0	0	4,650

* If more log inactivation credit is requested after 2015 action spectra correction factors can be re-calculated to improve accuracy.

** 1 log is 90% inactivation of pathogens (e.g. , *Crypto.*), 2 log is 99%, 3.5 log is 99.97%, 5.5 log is 99.9997% inactivation.

Manufacturer	Model	Log ₁₀ Inactivation Credit			Max. Flow (gpm)
		Crypto.	Giardia	Virus	
<p>OAR 333-061-0050(5)(k)(J): "Non-Community water systems using only groundwater sources, and having minimal distribution systems as determined by the Department, may use ultraviolet light as the only disinfectant when total coliforms have been detected in the source water and no <i>E. coli</i> has been detected. UV units must meet the specifications of a Class A UV system under the National Sanitation Foundation (NSF) standard 55. The minimum ultraviolet light failsafe dosage set point shall be equivalent to 40 ^{mW}-s/cm² (40 ^{mJ}/cm²) with a wavelength between 200 and 300 nanometers."</p> <p style="text-align: center;">The following are examples of Class A NSF 55 certified models and satisfy the Rule above:</p>					
Kinetico	KUV 1200x	No log removal credit granted to NSF Class A 55 models. See nsf.org for complete list.			12
Viqua Trojan	UVMax™ Pro 7				8.2
	UVMax™ Pro [x] series				up to 30
UV Pure Technologies	Hallet 15XS				14.6
	Hallet 30				30
Viqua	SPV-200				2.6
	SPV-410				5.9
	SPV-600			8.6	
	SPV-740			11.2	
	SPV-950			14.9	

For more information, call OHA
Drinking Water Services at
971-673-0405 (8am-5pm PT)