

Alternative Treatment Technology Units Meeting Validation Test Criteria

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

ULTRAVIOLET REACTORS

<i>(Other reactors not on this list may meet the criteria. Contact DWS for details on verifications for reactors not listed.)</i>					
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
Berson/Nuvonics	Amaline 100b	3.5+	3.5+	0	890
	Amaline 300b	3.5+	3.5+	0	2,660
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 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	
<i>OAR 333-061-0050(5)(l):</i>					
<p>"At non-community water systems using only groundwater sources, and having minimal distribution systems as determined by the Authority, water suppliers may use UV as the only disinfectant when total coliforms but no E. coli has been detected in the source water. UV units must meet the specifications of a Class A UV system according to NSF Standard 55."</p> <p>No log removal credit granted to NSF Class A 55 models. See nsf.org for complete list.</p>					

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