

Validated UV Systems

These UV systems have been validated using one of the following: EPA UV Disinfection Guidance Manual (USEPA 2006) or NSF/ANSI 55 Class A.

Note: this list is intended only to provide information about reactors validated by acceptable protocols; for any UV reactor selected for use in an onsite reuse system, the project must verify that the reactor is able to meet the requirements laid out in Chapter 15-13 of the Austin City Code, such as being able to automatically divert water that does not meet treatment or water quality standards.

For all systems below, refer to information from manufacturer about additional water quality conditions necessary for achieving the stated dose.

| Company | Brand Name/Trade Name/Model | Validation Standard | Validated Dose | Min UV Sensor Reading | Max Flow Rate (GPM) | Min UV Transmittance (UVT) | Potential Pathogen Credit (Virus / Protozoa / Bacteria) |
|-------------------------------|---|----------------------|-----------------------|-------------------------------|--------------------------------|----------------------------|---|
| Eagle Water Treatment Systems | EWT6-40CA | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 18 | Check with manufacturer | 2 / 3 / 2 |
| Greenway Water Technologies | GAUV-12H GAUV-20H GAUV-32H | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 9 17 27 | 97% | 2 / 3 / 2 |
| Luminor Environmental | LBH6-051A LBH6-101A LBH6-151A LBH6-251A LBH6-401A | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 2.2 4.0 5.4 7.9 13 | 70% ² | 2 / 3 / 2 |
| Neotech Aqua | D438 | EPA/NSF ETV Protocol | 40 mJ/cm ² | 0.8 mW/cm ² | 40 | 55% | 2 / 3 / 2 |
| Puretec | RI-17KA | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 13 | Check with manufacturer | 2 / 3 / 2 |
| UV Pure Technologies | Hallett 15xs | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 14.6 | 75% | 2 / 3 / 2 |
| UV Pure Technologies | Hallett 30 | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 27.4 | 75% | 2 / 3 / 2 |

This list is being provided solely for the convenience of the public and any interested parties. By providing this sample list of current technologies and companies, Austin Water does not endorse, warrant, or make representations or endorsements as to the accuracy, quality or completeness of the listed information, or the competency or effectiveness of listed technologies and companies. The City of Austin will not be responsible for any loss, damage, cost or expense the user might incur as a result of the use of, or reliance upon, the information and companies listed.

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|-------|-----------|---------------------|------------------------|--|---------------------------|---------------------------------------|-----------|
| Viqua | PRO10 | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 10 | 70% | 2 / 3 / 2 |
| Viqua | PRO20 | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 20 | 70% | 2 / 3 / 2 |
| Viqua | PRO30 | NSF ANSI 55 Class A | 40 mJ/cm ² | Manufacturer set ¹ | 30 | 70% | 2 / 3 / 2 |
| Viqua | PRO50 | EPA UVDGM (2006) | 40 mJ/cm ² | 11.7 mA | 51 | 75% | 2 / 3 / 2 |
| Viqua | PRO24-100 | EPA UVDGM (2006) | 100 mJ/cm ² | 11.7 mA 13.1 mA 14.7 mA 14.8 mA | 9.9 14.9 20.9 24 | 75% 82% 90% 95% ³ | 4 / 6 / 4 |
| Viqua | PRO24-186 | EPA UVDGM (2006) | 186 mJ/cm ² | 11.7 mA 13.1 mA 14.7 mA 14.8 mA | 9.9 14.9 20.9 24 | 75% 82% 90% 95% ³ | 6 / 6 / 6 |

¹ NSF/ANSI 55 Class A validated reactors must be equipped with a UV sensor. The minimum UV sensor reading corresponding to a dose of 40 mJ/cm² is set by the manufacturer and cannot be modified. Control of the treatment system must include a UV reactor that has the capability to alarm and trigger a diversion or shutdown the flow if the UV sensor drops below the UV intensity corresponding to a dose of 40 mJ/cm².

² Manufacturer recommends operation at or above 75% UVT for the optimal operation of a unit and to stay within warranty parameters.

³ Minimum UVT values are approximate. The UV sensor reading will account for changes in UVT and respond accordingly.

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