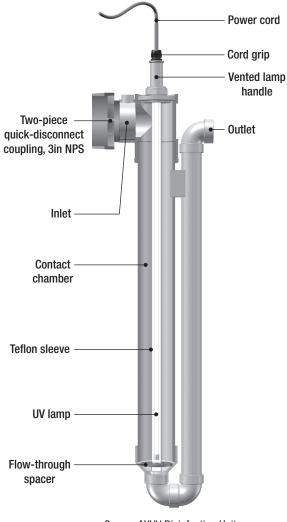
Technical Data Sheet

AXUV Disinfection Unit

Applications

The Orenco AXUV Disinfection Unit is designed for use in residential applications after advanced secondary treatment (10mg/L cBOD₅ and TSS) by an AdvanTex® Treatment System when disinfection is required before dispersal. It requires installation inside a pump or gravity discharge basin or in a separate tank following an AdvanTex Treatment System. AXUV units can also be mounted in the AX20-RT Treatment System.









Orenco Systems® • 800-348-9843 • +1 541-459-4449 • www.orenco.com

All product and performance assertions are based on proper design, installation, operation, and maintenance according to Orenco's current published documentation.

NTD-TRT-UVD-2 Rev. 1 © 11/24 Page 1 of 2

General

Orenco's UV disinfection unit uses ultraviolet light to disinfect effluent without chemicals or moving parts. Treated effluent flows by gravity through the contact chamber and around the UV lamp, where it is disinfected in a 360-degree contact zone. It requires annual cleaning and lamp replacement.

In side-by-side NSF[®] testing, the AXUV disinfection unit reduced bacteria by 99.999% (5 logs), meeting or exceeding the performance of other residential UV disinfection units.

The power ballast and lamp current sensor are housed in an Orenco MVP digital control panel or a VeriComm[®] remote telemetry control panel to protect the unit's electronic components and prevent discharge of non-disinfected effluent due to failure of the lamp or control panel. The current sensor monitors lamp function and, in the event of lamp failure, automatically disables the discharge pump. With MVP systems, an audible and visible alarm is activated. With VeriComm systems, an email alert is sent to the system's service provider. Additionally, the ballast has an end-of-life feature to protect the UV lamp and cord.

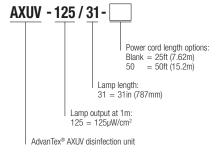
Features

- UL recognized for US and Canada •
- Reduces bacteria by 99.999% (5 logs) •
- Flow path maximizes effluent-to-lamp contact time •
- All components designed to work together; no piecemeal parts or wiring
- Fluorinated ethylene propylene sleeve protects the UV lamp from buildup; maximizes service intervals
- Quick-disconnect fitting for easy inspection and cleaning
- Ballast has an end-of-life feature to protect the UV lamp and cord .
- Type 4X, UV-resistant fiberglass control panel houses the ballast and • lamp current sensor outside of the wet well to minimize failures due to environmental exposure

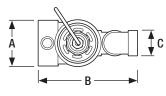
Standard Models

AXUV-125/31

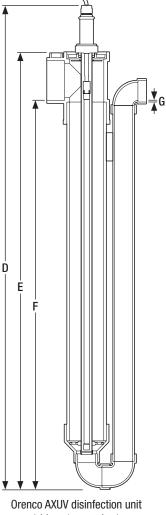
Product Code Diagram







Orenco AXUV disinfection unit (top view)



(side cutaway view)

Materials of Construction

Contact chamber	Schedule 40 black ABS
Cord grip	Nylon
Inlet tee	Schedule 40 black ABS
Lamp assembly seal	EPDM rubber
Lamp sleeve	Fluorinated ethylene propylene
Other fittings	Black ABS
Outlet	Black ABS
Quick-disconnect couplings	Black ABS

Specifications

Di	mensions, in (mm)	
Α		5.63 (143)
В		10.06 (256)
C		1 1/2 NPS
D		42.25 (1073)
Ε		38.56 (979)
F		34.50 (876)
G	Inlet-to-outlet fall	0.5 (13)

AXUV Unit Performance

120V, AC, 50 or 60Hz; end-of-life-feature protects UV lamp and cord; housed in UL-listed Orenco control panel
UL-listed four-pin connector, lampholder, electric discharge, 1000V or less
31in (787mm), 92VAC, 50 or 60Hz, 425mA, 38W; 254nm UVC intensity at 1m is 125mW/cm ²
600V, 18/2 UL Type TC
30,000-38,000µW·s/cm ²
276,000µW·s/cm ² at 1gpm (0.06L/sec) 55,000µW·s/cm ² at 5gpm (0.32L/sec) 28,000µW·s/cm ² at 10gpm (0.63L/sec)