AUV-TOC Reduction Series

ADVANCED UV, INC.

Standard Features*

- 9,000 Hour Guaranteed Lamp Life
- Stationary Flow Management Baffle
- 316L Stainless Steel Reactor Chamber
- Operating Pressure 150 psi (10.5 bar)
- Stainless Steel Compression Nipple
- NEMA 12 (IP55) Modified Electrical Enclosure
- On/Off Equipment Switch
- Hand-Off-Auto Circuit
- Electronic Ballasts
- High Voltage Insulation Lamp Socket
- MCCB Protection
- Temperature Safety Circuit
- Enclosure Over-Heat Sensor
- LED Lamp Operational Display
- Lamp Out Circuit
- Re-settable Running Time Meter
- Viton O-ring Elastomers
- Drain Valve (UPW Grade)
- ETL Listed, CE

Options

- UV Intensity Meter & Probe
- 4-20 mA Interface
- Remote Electrical Enclosure
- NEMA 4X (IP66) Modified Electrical Enclosure
- Transformer For Optional Voltages
- Modular Skid
- Sanitary Ferrules

Typical Applications

- TOC Destruction
- UPW Makeup & Polishing Loops
- Reclaim
- UPW POU Skids
- Process Control
- Quality Control
- Recirculation Loops
- Slip Streams

*See Specifications for Details

AUV-8000 TOC

The AUV-TOC Series utilizes the latest ultraviolet technology available to reduce total oxidizable carbon in pure water applications. Models deliver an unparalled dose of ultraviolet irradiation at a 185 nm wavelength by maximizing output through the company's uniquely matched electronic ballast, single ended high output UV lamps and geometrical lamp configurations within the reactor chamber.

Twelve models are available for TOC Reduction. Each model is loaded with a wide variety of standard features to ensure that the equipment is operating at peak performance. To help customize a unit for a specific application there is also a number of optional features that can be incorporated into each unit. All models are built with an integral electrical enclosure, which offers a high level of electrical protection while simplifying installation and operational management of the equipment.

AUV-TOC models are designed to function as stand-alone products or they can be incorporated into an expandable skid mounted system through Advanced UV's uniquely designed modular technology. Up to four units can be stacked on each modular frame.

To ensure proper TOC sizing AUV has developed a comprehensive software package that models similar organics typically found in today's Microelectronics plants. Simply identify the system's makeup and polishing loop capacities, the consumption, return and reclaim requirements and AUV's TOC sizing model will calculate the total number of UV lamps required for all the specified locations... a first in UV technology.

When it comes to value and performance, nobody delivers ultraviolet technology like Advanced UV.

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AUV-TOC SPECIFICATIONS

AUV MODEL	CAPACITY GPM (m^3/hr)	NUMBER OF LAMP	INPUT POWER (50/60Hz)	POWER	FOOT PRINT (H x W x D) inch (mm)	FLANGE SIZE inch
AUV-800 TOC	***CONSULT FACTORY FOR SIZING***	4	1ϕ, 200-240V	680W (740VA)	25.8x67.5x11.8 (665x1715x300)	2
AUV-1200 TOC		6	1ϕ, 200-240V	1.0KW (1.1KVA)	28.5x71.2x13.7 (724x1808x348)	2
AUV-1600 TOC		8	1ϕ, 200-240V	1.4KW (1.5KVA)	29.5x71.2x14.0 (749x1808x356)	2
AUV-2000 TOC		10	1ϕ, 200-240V	1.7KW (1.9KVA)	25.6-27.0x71.2x24.5 (650-686)x1808x622)	2-4
AUV-2400 TOC		12	3ϕ, 200-240V	2.0KW (2.2KVA)	25.6-27.0x71.2x24.5 (650-686)x1808x622)	2-4
AUV-2800 TOC		14	3ϕ, 200-240V	2.4KW (2.6KVA)	27.6-29.0x71.2x26.5 (701-737x1808x673)	2-4
AUV-3200 TOC		16	3ϕ, 200-240V	2.7KW (3.0KVA)	27.6-29.0x71.2x26.5 (701-737)x1808x673)	2-4
AUV-4000 TOC*		20	3ϕ, 200-240V	3.4KW (3.7KVA)	27.0x71.3x53.9 (686x1811x1369)	3-6
AUV-4800 TOC*		24	3ϕ, 200-240V	4.0KW (4.4KVA)	27.0x71.3x53.9 (686x1811x1369)	3-6
AUV-6000 TOC*		30	3ϕ, 200-240V	5.0KW (5.5KVA)	27.0x71.3x53.9 (686x1811x1369)	3-6
AUV-7200 TOC*		36	3ϕ, 200-240V	6.0KW (6.6KVA)	29.0x71.9x56.7 (737x1826x1440)	3-6
AUV-8000 TOC*		40	3ϕ, 200-240V	6.7KW (7.3KVA)	29.0x71.9x56.7 (737x1826x1440)	3-6

Notes:
1. *Optional Transformer available for 3ϕ, 400-480V input power.
2. *AUV-4000 TOC-8000 TOC models incorporate a modular skid frame.
3. Specifications subject to change without notice.

AUV-8000 TOC 4-STACK with Balanced Flow Manifold

AUV-7200 TOC 3-STACK

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