

Integra

triogen[®] UV Integra range of UV systems are designed for the disinfection of intake, discharge and recirculating effluents at fish farms and on Well Boats. The triogen[®] UV Integra system eliminates pathogens with a powerful dose of UV light delivered by strategically placed medium pressure UV lamps.

APPLICATIONS

- Aquaculture (Recirculating Aquaculture System - RAS, and Wellboats)
- Salt and fresh water

BENEFITS

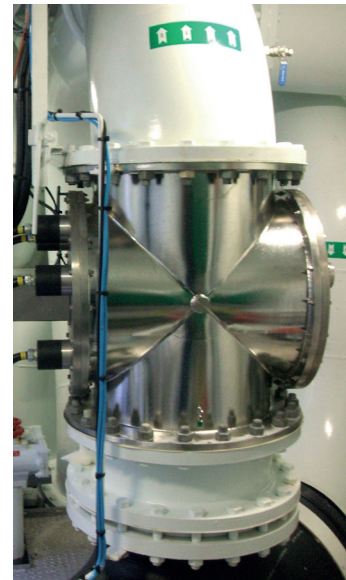
- Suitable for land and sea based facilities
- Improves algae control
- Savings in water, energy and chemical consumption
- Low capital and installation costs with minimal service and plant room space required
- Suitable for indoor and outdoor applications
- Highly resistant to corrosion attack

MAIN FEATURES

- Norwegian Veterinary Institute (NVI) Certified equipment
- Automatic energy adjustment from 30-100% of full power
- Polychromatic 8000 hour medium pressure UV lamp system
- Advanced lamp efficiency and automatic flow pacing
- 316L stainless steel electro polished vessel
- Automatic "Smartdrive" wiper system and UV monitor
- Quick release powerhead for easy lamp replacement
- Touchscreen microprocessor control panel
- Data logging, BMS, ethernet and modbus communication ready
- CE certified, manufactured to ISO 9001 : 2015

UV TECHNOLOGY

Medium pressure polychromatic ultraviolet light (UV) is highly effective at inactivating bacteria and viruses and also for oxidising organic species in water. Ultraviolet disinfection consists of a physical, chemical-free process, attacking the vital DNA of the bacteria and micro organisms directly. UV technology has advanced to the point where it can easily enhance the disinfection and oxidation of a wide variety of applications.



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TECHNICAL DATA MODEL	Flow Rates at 90% UVT ⁽¹⁾	Flow Rates at 85% UVT ⁽²⁾	Installed electrical power	A	B	C	Flange	Control Panel
	m ³ /h	m ³ /h	kW	mm	mm	mm	mm	L x H x W (mm)
Integra 500	up to 509	up to 933	18	1015	700	670	500	1000 x 1700 x 400
Integra 500 duplex	up to 1018	up to 1866	36	1015	1320	670	500	1200 x 1900 x 400
Integra 900	up to 2106	up to 3880	73	1592	1200	1115	900	800 x 2000 x 800
Integra 1500	up to 878	up to 1522	53	1175	950	780	600	800 x 2000 x 800
Integra 2000	up to 1152	up to 1982	61	1280	1100	895	700	800 x 2000 x 800
Integra 4000	up to 2586	up to 4736	108	1490	1500	1075	700	800 x 2000 x 800

(1) 90 mJ/cm²

(2) 30 mJ/cm²

QUALITY STANDARDS

- BS EN ISO 9001 : 2015
- CE approval
- NVI approved

MATERIALS

- Reactor Vessel: 316L electro-polished stainless steel
- Flanges: EN1092 PN10 / ANSI 150RF
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: IP54 polyester coated mild steel

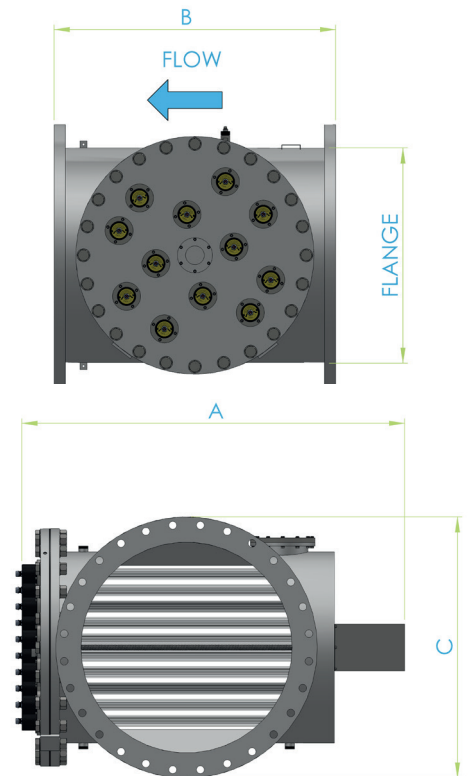
OPTIONS

- Automatic wiper system
- Stainless steel control panel

REMOTE CONTROLS AND SIGNALS

- Automatic flow pacing (optional)

- SCADA communication capability
- Real-time UV dose display
- inputs: water flow (4-20mA / ethernet), UV transmittance
- outputs: UV intensity, system status, pre-alarm, system fault
- ethernet communications capability
- remote indications: lamp change required, low intensity, remote on, fault, lamps on, detailed alarm code (ethernet only)
- lamp power control: ethernet, auto, manual



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