

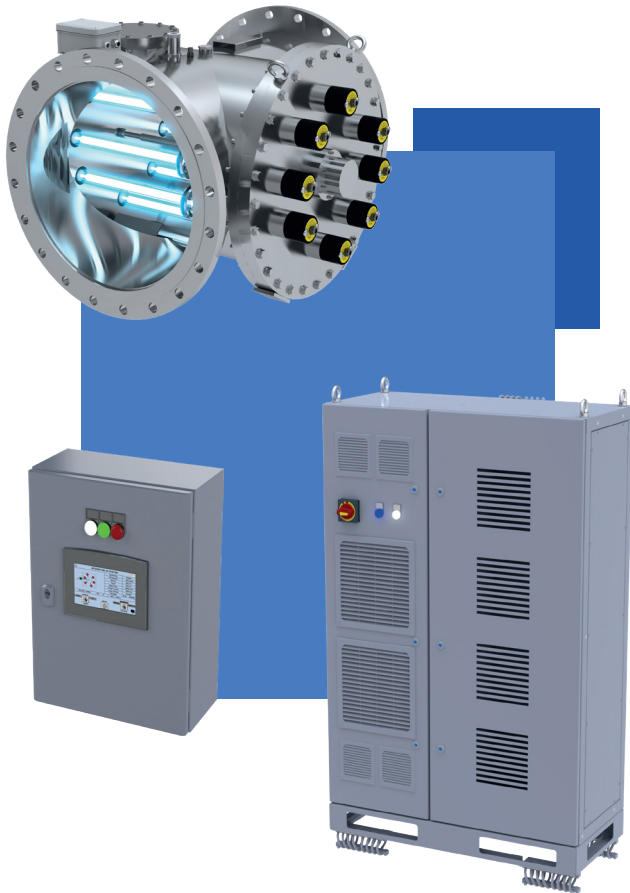
INTEGRA

Aquaculture & Wellboats

Fresh & Salt water



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



BENEFITS

- Suitable for land and sea based facilities
- Improves algae control
- Savings in water, energy and chemical consumption
- Low capital expenditure (CAPEX) 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
- 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
- Marine approved power cabinet with optional dampers to meet wellboats environmental constraints
- Separated control command for optimized integration and modularity

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.



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Description	Max Flow Rate (NVI Dose – min 25mJ/cm ²)	Max Flow Rate (90 mJ/cm ²)	UV Lamp : Number x Power consumption	Connection	Reactor			Power Cabinet
					A in mm	B in mm	C in mm	H x W x D in mm
Integra 125	75	14	1 x 1800 W	DN 125	510	335	510	-
Integra 150	180	89	2 x 2500 W	DN 250	645	478	550	-
Integra 250	300	147	4 x 2500 W	DN 300	734	519	550	1159 X 1000 X 567
Integra 300	615	211	4 x 3720 W	DN 300	800	551	720	1159 X 1000 X 567
Integra 500	1330	629	6 x 3000 W	DN 500	870	688	700	1159 X 1000 X 567
Integra 1000	2300	1022	6 x 6000 W	DN 500	870	688	700	1159 X 1000 X 567
Integra 1500	3230	1118	8 x 6000 W	DN 600	1031	841	944	1159 X 1000 X 577
Integra 2000	3900	1489	8 x 7000 W	DN 700	1151	941	1094	1159 X 1000 X 577
Integra 3000	5100	2480	8 x 8800 W	DN 900	1371	1115	1244	1159 X 1000 X 577
Integra 4000	6600	3333	12 x 8800 W	DN 700	1361	1136	1496	1149 X 1000 X 576

The performance of these devices have been calculated at the end of the lamp life and with a UV transmittance of 93%
Contact us for other flow rates

QUALITY STANDARDS

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



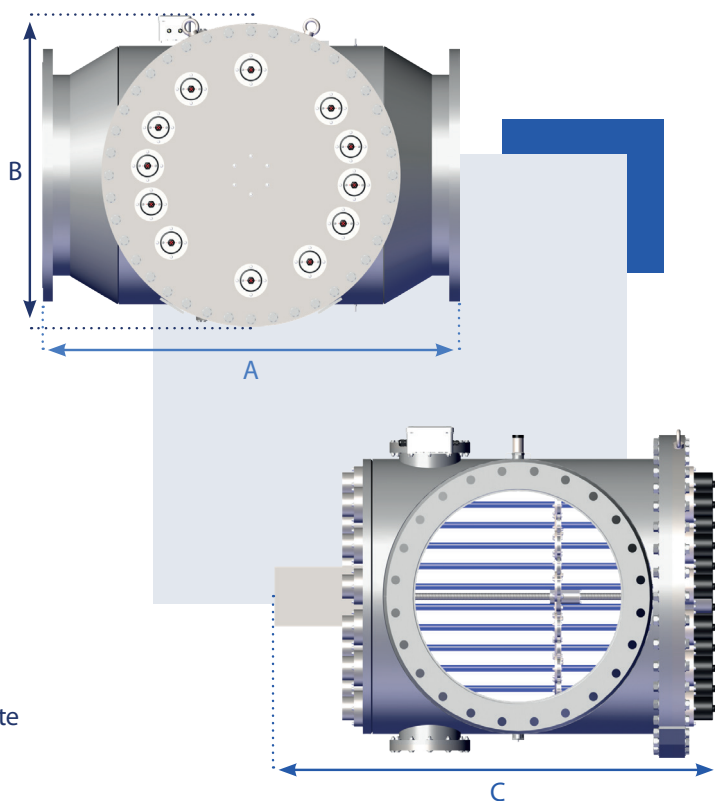
Veterinærinstituttet
Norwegian Veterinary Institute

MATERIALS

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

REMOTE CONTROLS AND SIGNALS

- Automatic flow pacing
- Modbus TCP communication capability or Unitronics Remote Operator Software
- Real-time UV dose display
- Inputs: water flow (4-20mA / ethernet), UV transmittance
- Outputs: UV intensity, system status, pre-alarm, system fault
- Remote indications: lamp change required, low intensity, remote on, fault, lamps on, detailed alarm code (ethernet only)
- Lamp power control: ethernet, auto, manual



CONTACT

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