



The water treatment specialist

ultraviolet Integra

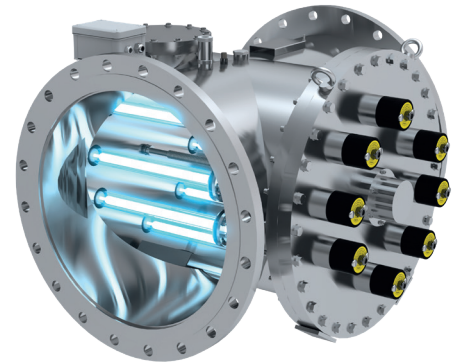
Integra range of UV systems are designed for the disinfection of intake water, discharging effluents and recirculating water at **fish farms and on wellboats**. UV Integra system eliminates pathogens with a powerful dose of UV light delivered by strategically placed medium pressure UV lamps.

applications

- Recirculating Aquaculture System
- Wellboat
- Water re-use and Wastewater

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 limited footprint inplant room
- Suitable for indoor and outdoor applications
- Highly resistant to corrosion attack



main features



Veterinærinstituttet
Norwegian Veterinary Institute

- 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 components of the power cabinet with optional dampers to meet wellboats environmental constraints
- Separate control command for optimized integration and modularity



UV technology

Medium pressure polychromatic ultraviolet light (UV-C) is highly effective at inactivating bacteria and viruses and also for oxidising organic compounds in water. Ultraviolet disinfection consists of a physical, chemical-free process, damaging the vital DNA of the bacteria and micro organisms.

technical data

| Model | Max flow rate (NVI dose - min 25 mJ/cm ²) | Max flow rate (90 mJ/cm ²) | UV lamps : number x power consumption | Inlet / Outlet diameter (in mm) | 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 1.8 kW | DN125 | 510 | 334 | 451 | 820 x 600 x 600 |
| Integra 150 | 180 | 89 | 2 x 2.5 kW | DN250 | 550 | 478 | 645 | 820 x 600 x 600 |
| Integra 250 | 300 | 147 | 4 x 2.5 kW | DN300 | 550 | 519 | 734 | 1239 x 1000 x 567 |
| Integra 300 | 615 | 211 | 4 x 3.7 kW | DN300 | 720 | 551 | 800 | 1239 x 1000 x 567 |
| Integra 500 | 1330 | 629 | 6 x 3.0 kW | DN500 | 700 | 688 | 870 | 1239 x 1000 x 567 |
| Integra 1000 | 2300 | 1022 | 6 x 6.0 kW | DN500 | 700 | 688 | 870 | 1239 x 1000 x 567 |
| Integra 1500 | 3230 | 1118 | 8 x 6.0 kW | DN600 | 952 | 881 | 944 | 1639 x 1000 x 583 |
| Integra 2000 | 3900 | 1489 | 8 x 7.0 kW | DN700 | 1094 | 941 | 1151 | 1639 x 1000 x 583 |
| Integra 3000 | 5100 | 2480 | 8 x 8.8 kW | DN900 | 1244 | 1115 | 1371 | 1639 x 1000 x 583 |
| Integra 4000 | 6600 | 3333 | 12 x 8.8 kW | DN700 | 1496 | 1496 | 1361 | 2029 x 1000 x 577 |

The performance of these devices has been calculated at the end of the lamps' life, with a UV transmittance of 93%.
[Contact us for other flow rates.](#)

quality standards

- ISO 9001 : 2015
- CE Compliance
- NVI approved

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), remote ON/OFF by external free contact
- Analog outputs : UV Intensity (0-10V and 4-20mA)
- Contact outputs : Lamp change required, low UV Intensity, remote control active, Fault, Lamp OK
- Ethernet outputs : Detailed alarm code
- Lamp power control (4-20mA): ethernet, auto, manual

option

The system can be mounted on a support so that it can rotate on its axis. The footprint is very low and maintenance is simplified.

contact

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