

AquaTriLight (ATL)

Desinfection

Product Information

AWATL-0042-0708

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Aquaworx



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1. Application

- Municipal Projects
- Nursing homes
- Hospitals
- Hotels
- Residential Customers
- Swimming Pools / Wellness
- Aquariums
- Industry
- Sewage Plants
- Drinking Water
- Waste Water
- Process Water

2. Solution

AquaTriLight (ATL)



3. Offer

AquaTriLight
The innovative solution!

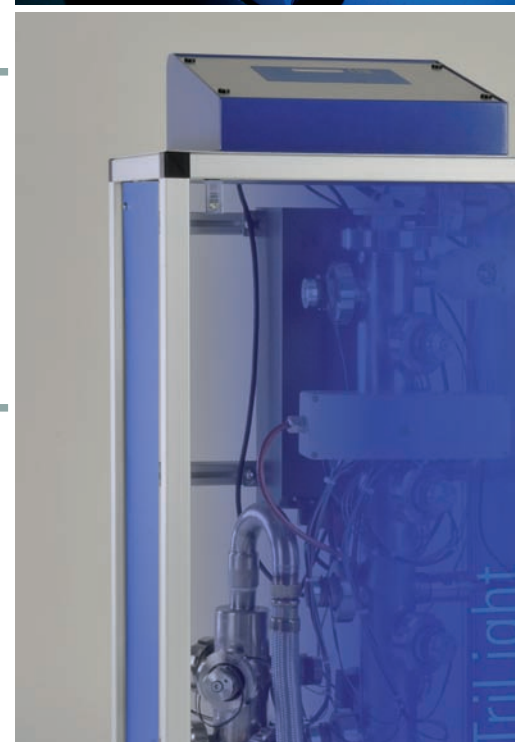
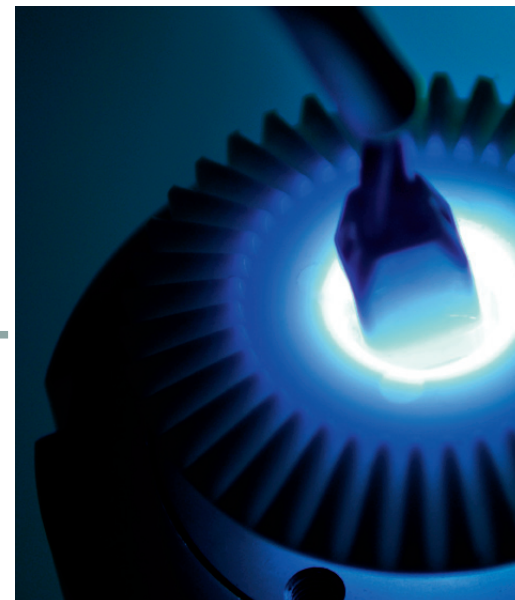
One appliance – flexible application!

- Drinking water disinfection/ water sterilization
- Legionella prophylaxis
- Purification of industrial liquids
- Waste water treatment

4. Service

Service

- »One« contact person
- Local service
- User-friendly
- Modular system



Technical Data

ATL

AquaTriLight (ATL) Desinfection Technology

Aquaworx



Case: ALU rack

- Height 1050 mm
- Width 500 mm
- Depth 400 mm
- Electronic unit 350 mm x 350 mm
- Water unit 900 mm x 400 mm x 500
- Weight approx. 35 kg
- Material aluminum profiles, snap-in doors PVC RAL 5010
- Water supply points 1" with flat gasket

Reactor:

- Height 800 mm/casing duct 860 mm
- OD \varnothing 70 mm ID \varnothing 66 mm
- Material stainless steel 1.440
- Water supply points DN25 with flat gasket
- O-ring EPDM/Viton/NBR to KTW
- Flat gaskets AFM 34, Viton
- Volume approx. 2,6 liter
- Supersonic power 480 W with 80KHz
- UVC emitter power for drinking water certification 43 W at 254 nm/125 VA, ozone-free
- UVC emitter power for non-drinking water certification 43 W at 180 nm, ozone-producing (option)
- Max. water temperature < 90°C legionella prophylaxis
- Drive motor UVC-unit AC-motor 5 W

Performance data to DVGW

- Operating voltage 230 V AC 50/60Hz single phase
- Max. input power 650 VA
- Earth lead R < 0,1 Ohm
- Max. water temperature < 90 °C
- Max. drinking water volume flow at 400 J/m² 10 J/m³/h SSk254 T100, 100 %
- Max. nominal pressure 10 bar
- Max. pressure drop reactor < 0,8 bar
- 2/2 way safety valve 230 V 18W
- Flow monitor paddle-sensor

*) Large reactors with flow rates of > 200 m³/h available

Water disinfection through UV-light & ultrasound

AquaTriLight is a system for purifying and treating liquids, in particular water.

AquaTriLight was developed specifically for the disinfection of drinking water.

The concept is ideally suited for Legionella prophylaxis and waste water treatment. The system can be adapted to the individual needs of the customer. It is available in flow rates of 10m³/h to 8.000 m³/h.

Disinfection is accomplished by means of ultra-violet light. The DNA of the microorganisms is damaged permanently, making replication impossible. Exposure to intensive near-field radiation with ultrasonic waves generates intense cavitation power which in turn breaks through the germ cell walls and dissolves micro-organism agglomerates. Host cells and especially legionella are almost completely destroyed and can therefore be reached much more effectively by UV-light.

Incorporating UV-light and ultrasonic waves in one system combines the advantages of both of these technologies in a unique and innovative way until now. In addition to damaging the microorganisms, the ultrasound has a further significant advantage. It constantly cleans the casing tube of the UV-lamps and the reactor walls.

This allows maximum maintenance intervals and a long lifetime. The patented layout of the sound generators produces a strong composite field, providing a more effective UV-passage.

The ever-clean surface of the AquaTriLight UV casing tube leads to exceedingly high performance during its entire operating life. Traditional UV-disinfection systems generally have a much lower performance level than our apparatus. AquaTriLight with a flow rate of 10m³/h has been certified to ÖNORM and DVGW.

Advantages

- No chemicals (e.g. chlorine) are used
- Higher performance and lower energy costs than comparable systems
- Low space requirement
- User-friendly
- Suitable for hot water use
- Highly economic
- Custom-made solutions – including optimization of existing equipment