



# Wallenius AOT 5 series

- An effective microbiological barrier against Legionella

## Chemical free water treatment

- Decomposition of chemical pollutants - Wallenius AOT
- Decomposition of biological pollutants - Wallenius AOT and UV light

## Tested and approved

- Log 5 reduction of Legionella pneumophila inside amoebas
- Tested at Vitens laboratories in the Netherlands
- Meets the guidelines BRL K14010-1/01 issued by Dutch quality assurance agency KIWA

## The flexibility of the Wallenius AOT 5 series

- Choice of 15 W or 42 W (per unit) - depending of the purification need
- Working temperature of water from 5 to 70°C
- Modular possibilities, single, serial or parallel
- Vertical or horizontal installation
- OEM version, without control cabinet, for integration in existing control systems.

## Energy- and cost-efficient solution

- Choice of lamp power, customize oxidation effect in accordance with the degree of pollution and turbidity
- Multifunctional - two water purification methods in one a single installation
- Robust design for heavy duty demands, still light weight with a small footprint
- Modularly installed in new or existing systems
- Few moving parts, long lifetime

## Fuss free service and maintenance

- no tool needed for lamp replacement
- few consumables
- long lifetime of lamps, 9000 hours , if system in operation 24/7
- A UV sensor on reactor connected to a monitor on the front of the control cabinet, can be connected to an alarm

## Accessories

- UV sensor, prepared for connection to an external alarm function
- A safety magnetic valve, turning the waterflow off if the alarm is triggered

## Areas of application

- Drinking water/potable water
- Process water
- Cooling process water water
- Cooling towers
- Pool & spa
- Irrigation water
- Waste water

## Designed to be approved for

- Marine requirements (Lloyd's Register)
- CE/S
- WRAS (Water Regulations Advisory Scheme), UK



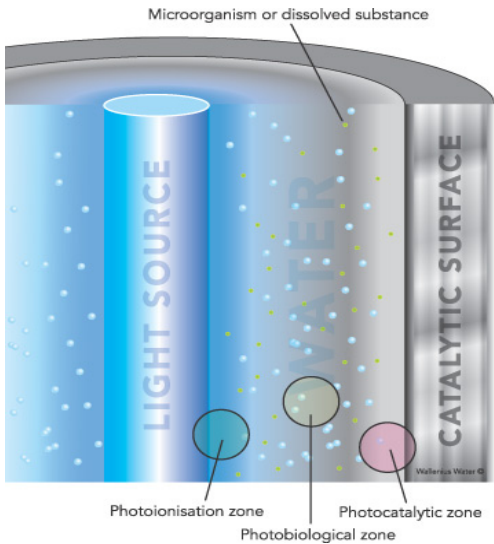
AOT 5 in premium version with a safety magnetic valve as add-on



AOT 5 in original version

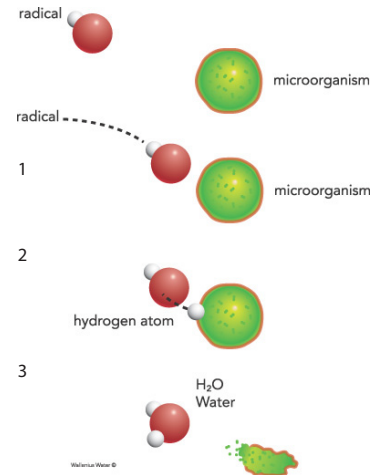


## Chemical free water treatment - how Wallenius AOT works



When water flows through the purifier and light hits the water and the surface of the titanium catalytic semiconductor, free radicals are produced which help break down organic material in the water. The process occurs only inside the purifier and leaves no harmful residual products behind.

- 1) A radical hits the surface of a microorganism or other organic contaminant in the water.
- 2) The radical steals a hydrogen atom.
- 3) When a structure on the surface of the microorganism or contaminant loses a hydrogen atom, it loses its shape and breaks down. The radical is converted to water.

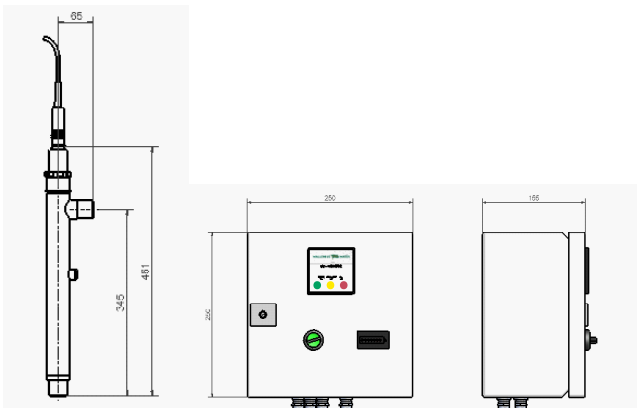


## Effective reduction

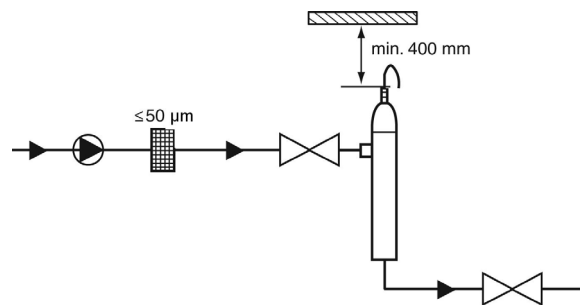
Bacteria such as: Legionella pneumophila even in amoebas E. coli	Virus such as: Tobacco Mosaic Virus Tomato Bushy Stunt Virus Poliovirus	Protozoa such as: Cryptosporidium Giardia	Fungus such as: Candida Albicans Aspergillus fumigatus	Inorganic substances such as: Bound chlorine Pharmaceutical residues Odour
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## Technical specifications

- Max hydraulic water flow :	5 m <sup>3</sup> /h (80l/min)
- Lamps, effect per unit:	15 or 42 W
- Power supply:	200-240 VAC, 50 and 60 Hz
- Max operation pressure:	10 bar
- Pressure drop:	0,2 bar
- Water temperature:	5-70°C
- IP:	65
- Connections:	G 1", G 1"
- Body:	Titanium grade 2



## Installation



Dimensions	Weight	Height	Width	Dept
AOT 5	1,1 kg*	460 mm	61 mm	44 mm
Control box		250 mm	250 mm	155 mm

\* with magnetic valve 2,15 kg