



FOOD & BEVERAGE PROCESS WATER

Dairy Industry

BIO-UV Group developed and patented in 2000 a **water treatment system** based on the UVC disinfection technology. BIO-UV systems are just the right fit for the dairy industry process water: process water disinfection, washing & CIP water disinfection, storage disinfection (in-tank UV), brine treatment, ...

The Principle

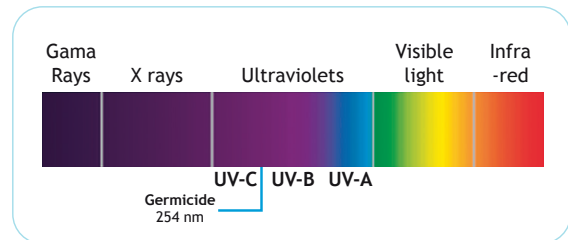
The sun produces an invisible light: UV light. This natural phenomenon is reproduced inside BIO-UV Group range of reactors thanks to powerful lamps producing UVC light with the latest technologies.

Benefits

- Simple treatment that does not affect the water quality: no change in taste, no change in odour...
- No disinfection by-products that could affect human health
- No risk of underdosing or overdosing
- High disinfection performance
- Can be combined with other treatment processes

Mechanism

At a wavelength of 254 nanometres, UV-C light will reach the core of the DNA and **eliminate microorganisms** (virus, bacteria, algae, yeast, mould... including Legionella, Cryptosporidium, Giardia and Toxoplasma that aren't removed by ozone or chlorine at normal doses) by disrupting the cells metabolism until they die. **All the pathogens are therefore deactivated and cannot reproduce.**



The right dose

BIO-UV Group range of reactors are sized based on flowrate as it is the combination between the contact time in the reactor and the power of the lamps that will ensure that the right dose (in mJ/cm²) is applied for the **elimination of 99,9% of microorganisms.**

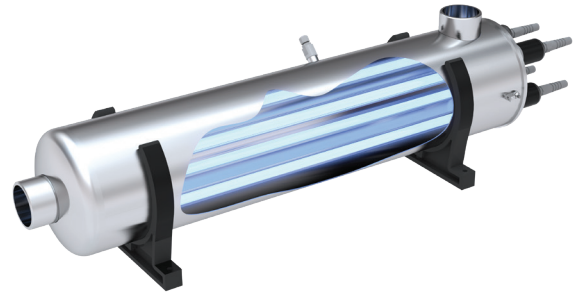




ÖNORM Certified

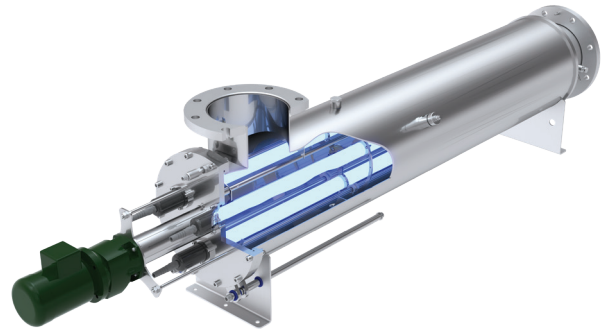
Food & Beverage Industry - IBP range

Model	UV lamp: number x power usage	Max flowrate in m ³ /h for a delivered dose of 40mj/cm ²
IBP 10 HO +	1 x 87 W	4,6
IBP 30 HO +	1 x 87 W	6,6
IBP 40 HO +	1 x 105 W	9,3
IBP 2150 HO +	2 x 87 W	13
IBP 3150 HO +	3 x 87 W	22
IBP 4205 HO +	4 x 87 W	39
IBP 5205 HO +	5 x 87 W	54
IBP 5 AM +	1 x 40 W	3,5
IBP 10 AM +	1 x 120 W	8,5
IBP 30 AM +	1 x 120 W	10,5
IBP 2150 AM +	2 x 120 W	25
IBP 3150 AM +	3 x 120 W	41
IBP 4205 AM +	1 x 105 W	80



ÖNORM Validated Drinking Water Range

Model	UV lamp: number x power usage	Max flowrate in m ³ /h for a delivered dose of 40mj/cm ²
DW 1114/55	1 x 55 W	2,15
DW 1150/120	1 x 120 W	13
DW 2150/120	2 x 120 W	32
DW 4205/120	4 x 120 W	70,5
DW 3323/400	3 x 400 W	186,8
DW 5355/500	5 x 500 W	437
DW 10508/500	10 x 500 W	695



*Performances above are given at end of lamp life and 98% UVT.
Enquire with us for other flowrates.

Options

- Reactor customisation to meet your requirements
- PLC (counter, UV intensity sensor, temperature...)
- Manual or automatic quartz sleeve wiper system
- CIP system
- PEHD reactors for corrosive conditions



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