

Feel free to contact us for more information about our

SEA WATER TREATMENT SOLUTIONS



UVGERMI
ULTRAVIOLET HIGH TECHNOLOGY

Sea water treatment solutions through ultraviolet reactors.

● ○ ● MADE IN FRANCE

SEA WATER TREATMENT SOLUTION

- THALASSOTHERAPY
- AQUARIUM
- FISH FARMING
- SHELLFISH FARMING
- FISH TANKS/PONDS
- INDUSTRY

THE ISSUE

The development of parasites, bacteria and viruses can jeopardise the production and maintenance of fish or shellfish in fish farms, fish ponds and fish hatcheries. Algae may propagate with the water becoming murky. The use of chemicals to kill parasites, bacteria and viruses has proven harmful to marine life.

NEEDS

Implement a treatment that effectively destroys pathogens without using chemicals.

Protect marine flora and fauna.

Use a material which is inert to corrosion and UVc-resistant.

Control the multiplication of algae in ornamental ponds, aquariums, fish ponds.

Limit contaminated discharges which are high in microorganisms into the marine environment.



Sales@ppoverseas.es

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THE SOLUTION

The treatment of microorganisms by UV is considered as one of **the most effective disinfection techniques** for the removal of bacteria, viruses and protozoa.

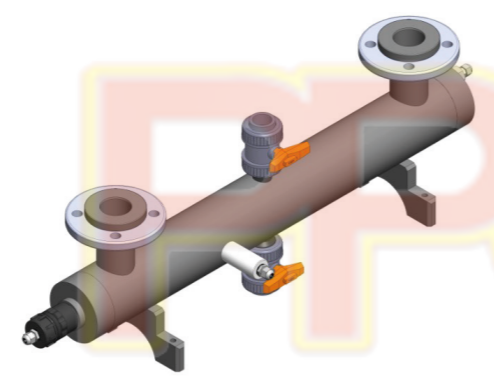
Exposure to UV radiation is a physical treatment that destroys microorganisms using light from the **UVC spectrum and particularly a wavelength of 254 nm** where its efficiency is at its maximum.

This treatment method results in a **high bacteriological water quality**. The risks of animal outbreaks and other diseases are eliminated.

Our devices eliminates the risk of epizootic diseases.

No additional chemicals are needed.

The reactors are made from food-grade HDPE and cabinets from polyester **to prevent corrosion in a saline environment.**



- Low operating and maintenance costs.
- Corrosion-resistant reactor body and electrical panel.
- Lamp lifespan up to 16000 hours or 2 years.
- Low pressure monochromatic lamps with low electrical consumption.
- Low head loss.

TECHNICAL SPECIFICATIONS

HDPE RANGE

REACTOR DESIGNATION	Average flow rate* (m³/h) at 25 mJ/cm²	Average flow rate* (m³/h) at 40 mJ/cm²	Total electric power (W)	IN/OUT diameter
STANDARD RANGE				
REUSE1	2.5	1.6	60	DN25
REUSE POWER	6	3	95	U** PVC50/DN40
GERMI AP 40 PEHD	3.1	1.9	40	U** PVC 63/DN50
GERMI AP 75 PEHD	5.3	3.3	75	U** PVC 63/DN50
GERMI BP 75 PEHD	12.4	7.7	150	U** PVC 63/DN50
GERMI CP 75 PEHD	20.5	20	225	DN65
INDUSTRIAL				
GERMI AD 120 PEHD	7.8	4.9	120	DN50
GERMI BD 120 PEHD	21.1	13.2	240	DN65
GERMI CD 120 PEHD	47.3	29.5	360	DN65
GERMI CD 200 PEHD	83.9	52.4	600	DN100
GERMI DD 200 PEHD	110.4	69	800	DN100
GERMI CD 300 PEHD	188.8	118	900	DN100
GERMI DD 300 PEHD	243.9	152.4	1200	DN100
GERMI FD 300 PEHD	336	209.9	1800	DN150
GERMI HD 300 PEHD	508.8	318	2400	DN200
GERMI JD 300 PEHD	729.8	456.1	3000	DN300
GERMI LD 300 PEHD	906	566.5	3600	DN300

* T = 90 % ; ** U: Union

Standard operating pressure: 6 bar (for higher pressures, contact us)

Power supply: 230V or 400V TETRA - 50-60 Hz (depending on the model)

Single ended amalgam lamp Low pressure, (guaranteed for 16 000 hours or 2 years whichever RFFXUV first except for the 75 W lamps)

Electronic ballast for UVC lamps with preheating Polyester cabinet (prevents corrosion in the marine environment)

Temperature sensor with thermoregulator



OPTIONS for industrial range

- UV intensity regulation according to the water flow
- IP65: double door cabinet
- Digital standardized UVc intensity sensor with 2 configurable alarm thresholds and one 4-20 mA output
- Automatic PVC drain for vertical installation
- Different flanges diameter for standard and/or non-standard input/output.