SEA WATER TREATEMENT

Our reactors are also proposed in HDPE.



ULTRAVIOLET HIGH TECHNOLOGY

The specialist of dechloramination through ultraviolet reactors.

• • • MADE IN FRANCE

WATER INTENDED FOR PUBLIC SWIMMING POOLS AND WELLNESS AREAS

PUBLIC SWIMMING POOLS WELLNESS AREAS SPAS THALASSOTHERAPY

THE ISSUE

The chlorine used in water disinfection of swimming pools and wellness areas reacts with nitrogenous pollutants brought by the swimmers (urine, sweat, saliva, hair). Compounds are created. Trichloramine, (most volatile compound) passes in the atmosphere causing eye, nasal irritations and dangerous respiratory disorders for the human health.





Sales@ppoverseas.es



Today, more than

are equipped with

our UVDECHLO

all over the world.

1500 pools

technology



CHLORAMINE FORMATION IN THE SWIMMING POOL

THE CONCEPT

The UV dechloramination process presents the particularity of **reducing the rate of combined chlorine by a photochemical action on all the organochlorinated compounds in the water** (monochloramine, dichloramine, and trichloramine).

Studies conducted by the **Professor BATCHELEY** (USA) team and **LAAT** (France) demonstrate that low pressure UV technology is **effective on all 3 types of chloramines**.

The use of low pressure UV lamps, usually used in drinking water since 1904, is safe because they prevent from the formation of chlorine byproducts such as THMs.

U GERMI

- Power modulation : energy saving
- Simple Installation
- Low power consumption
- Low maintenance costs
- Lamp lifespan up to 16000 hours or 2 years
- No formation of by-products
- Comfort of bathing
- Better improvment of staff working conditions
- Better management for new water supply

THE SOLUTION

The ultraviolet rays generated by UVDECHLO destroy bacteria, viruses and all micro-organisms present in the water of pools brought by swimmers, causing photochemical reactions to their DNA and RNA.

An abnormal contact is created on the bacterium's DNA chain, which loses its reproductive capacity. Cell division is no longer possible, bacterial proliferation is stopped.

UVDECHLO devices enable to reduce the level of chloramines in water by an average of 80% and the level of nitrogen trichlorides in the air by 50%.

TECHNICAL SPECIFICATIONS

UVDECHLO range is made from stainless steel 316L or

in HDPE and integrates low-pressure UV lamps with a

lifespan of 16 000 hours (or two years). They are sized

according to your needs to obtain at the same time an important destruction of chloramines and a better control

UVDECHLO reactors can be easily integrated into the pool's recycling circuit, after the filtration, and before the

of the quantity of chlorine to be injected.

chlorine injection.

AGREEMENT

The French ministerial approval which we received for our technology in November 2006 bases on studies demonstrating that the UVDECHLO has no incidence on the rate of THMs.



| | NUMBER OF LAMPS/POWER | FLOW RA (T=9 60 mJ/cm ² | TE (m³/h) 98%) 30 mJ/cm² | CONNECTION DN FLANGE (PVC)(mm) | REACTOR DIAMETER (mm) | POWER SUPPLY/FREQUENCY (V/Hz) |
|----------------------|--------------------------|---------------------------------------------|-----------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| UVDECHLO 20 | 1X200 Watts | 10 | 20 | 50 (63) | 104 | 230/50-60 Hz |
| UVDECHLO 45 | 2X200 Watts | 24 | 48 | 80 (90) | 140 | 230/50-60 Hz |
| UVDECHLO 90 | 4X200 Watts | 78 | 157 | 100 (110) | 220 | 230/50-60 Hz |
| UVDECHLO 150 | 6X200 Watts | 172 | 344 | 150 (160) | 300 | 400 V Tri+N+T / 50-60 Hz |
| UVDECHLO 200 L300 | 6X300 Watts | 295 | 590 | 200 (200-225) | 350 | 400 V Tri+N+T / 50-60 Hz |
| UVDECHLO 300 L300 | 9X300 Watts | 458 | 917 | 300 (315) | 400 | 400 V Tri+N+T / 50-60 Hz |
| UVDECHLO 400 L300 | 13X300 Watts | 787 | 1574 | 300 (315) 400 possible | 500 | 400 V Tri+N+T / 50-60 Hz |
| UVDECHLO 700 L300 | 20X300 Watts | 1200 | 3600 | 400 | 600 | 400 V Tri+N+T / 50-60 Hz |