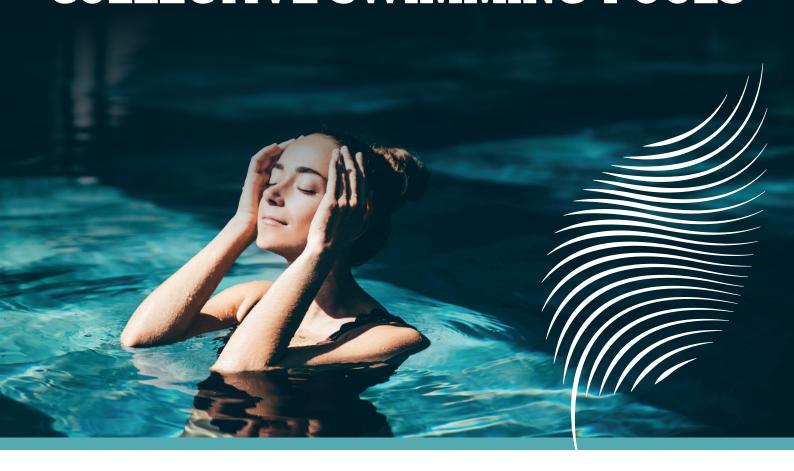
WATER FOR PUBLIC AND COLLECTIVE SWIMMING-POOLS







ULTRA NATURAL TECHNOLOGY

www.uvgermi.fr

MADE IN FRANCE

| PUBLIC POOLS | WELLNESS CENTERS | SPAS THALASSOTHERAPY & BALNEOTHERAPY | HYDROTHERAPY |



ISSUE

The chlorine used to disinfect the water in swimming pools and wellness centers reacts with nitrogenous pollutants introduced by users (urine, sweat, saliva, hair, etc.). and produces various compounds. **Trichloramine** is the most volatile of these compounds. It is emitted into the atmosphere, causing eye and nose irritations as well as respiratory disorders that are harmful to human health (recognised as an occupational illness since May 2003).



This concentration is generally maintained by adding large quantities of new water. This is an expensive solution for public authorities and wellness centers, because regulations also stipulate that water renewal rates must be reach at least 30 litres per day per user, at an average cost of €9 exc. VAT per 1m³ of treated, heated water, without having the desired results.



REMINDER OF THE REGULATORY FRAMEWORK

Aside from health considerations, regulations require the combined chlorine level (chloramines) to be kept below 0.6 mg/l, this level is reduced to **0.4 mg/l** if swimming babies use the pool (ANSES report, June 2010).



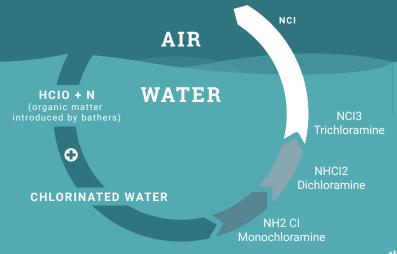
SOLUTION

Our low pressure UVDECHLO dechloraminators are recognised for reducing chloramine concentrations in water by 80% on average, and nitrogen trichloride concentration in air by 50%.

The ministerial approval we were granted shows that UVDECHLO has no impact on THM levels.



over 3,000 pools have been equipped with our UVDECHLO technology.



PRINCIPLE

UV lamps reduces the combined chlorine concentration in pools through a photochemical action on all organochlorine compounds in water (monochloramine, dichloramine and

Studies conducted by Professors BATCHELEY (USA) and **DE LAAT** (France) and their teams show that low pressure UV technology is effective on these three types of chloramines.

Chloramine production in pool facilities

Low pressure UV lamps, widely employed in drinking water processes since 1904, can be used safely because they do not allow chlorine subproducts, such as THMs to form.



Optimisation of operating costs for facilities equipped with UVDECHLO reactors

Power modulation = energy saving Automatic control linked to the chloramine levels measured on the line

Better management of new water additions: reduced by 50%

Low maintenance costs

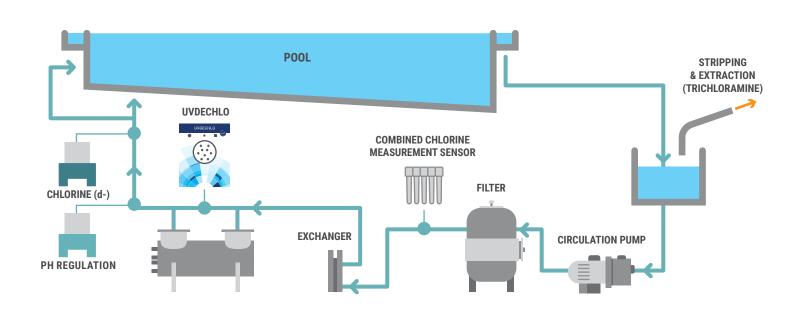
Simple installation on a bypass

Lamp service life guaranteed up to 16,000 hours or 2 years

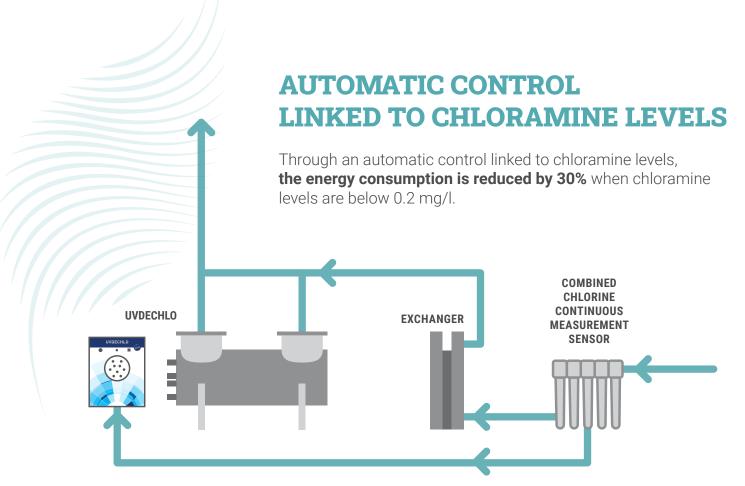
No production of by-products, such as THMs

Comfortable bathing, improved working conditions for staff.





	NUMBER OF LAMPS/ POWER	TREATED FLOW RATE (m ³/h)	CONNECTION DN FLANGE (PVC) (mm)	DIAMETER/ LENGTH (mm)	POWER/ FREQUENCY (V/Hz)
UVDECHLO AD300 ECOENERGY	1x300 Watts	10 to 50	80 (90)	140 / 1550	230/50-60 Hz
UVDECHLO BD300 ECOENERGY	2x300 Watts	50 to 100	125 (140)	220 / 1550	230/50-60 Hz
UVDECHLO CD300 ECOENERGY	3x300 Watts	100 to 200	150 (160)	320 / 1550	400 V Three-phase+N+E / 50-60 Hz
UVDECHLO DD300 ECOENERGY	4x300 Watts	200 to 300	200 (225)	355 / 1550	400 V Three-phase+N+E / 50-60 Hz
UVDECHLO CD600 ECOENERGY	3x600 Watts	300 to 450	300 (315)	400 / 1570	400 V Three-phase+N+E / 50-60 Hz
UVDECHLO FD600 ECOENERGY	6x600 Watts	450 to 900	400 (400)	500 / 1570	400 V Three-phase+N+E / 50-60 Hz



AUTOMATIC CONTROL (4-20 mA) LINKED TO COMBINED CHLORINE LEVELS





UVGERMI, ZAC de la Nau, 19240 Saint-Viance, France Tel.: +33 (0) 555 881 888 | Email: contact@uvgermi.fr

www.uvgermi.fr





