



UVGERMI[®]
ULTRAVIOLETS DE HAUTE TECHNOLOGIE

*Specialist in
microbiological water treatment
using ultraviolet reactors.*

● ○ ● MADE IN FRANCE

TREATMENT OF **WATER FOR HUMAN CONSUMPTION** **LOW FLOW RATE** RANGE

THE ISSUE

Water for human consumption can contain a large number of harmless microorganisms as well as some that are pathogenic (faecal streptococci, faecal coliforms, sulphate-reducing bacteria, etc.).

To obtain water that is suitable for drinking, bacteriologically-speaking, these bacteria must be removed completely. An efficient treatment that destroys all of these pathogenic microorganisms without altering the organoleptic qualities of the water must therefore be implemented.

The UV disinfection process can be used to treat borehole water, supply water or water from a contaminated well.



THE SOLUTION

UV disinfection is a 100% physical treatment that is considered to be one of the most effective techniques against microorganisms.

The system imitates the bactericidal effects of sunlight. The process disinfects using the UV light spectrum at a wavelength of 254nm (the most effective wavelength for destroying pathogenic microorganisms).

The nucleic acids (DNA and RNA) of the microorganisms are damaged by the UV radiation from the lamps, which causes their immediate destruction.

BEFORE

Photons
UV



AFTER

Damaged
DNA chain



PROPERTIES

Our units comprise a jar made from food-grade polyethylene or a stainless steel body with a low pressure UV lamp inside. This is protected from the water by a quartz sleeve that provides electric and thermal insulation.

The control box is positioned directly on the head or body of the UV reactor (depending on the model). It has various safety features:

Hour counter to monitor ageing of the UV lamp and calculate the number of hours' operation

Light indicator when in service

Alarm if the UV lamp stops



BENEFITS OF UVGERMI

UVGERMI®

- Low energy consumption
- Low maintenance costs
- Vertical or horizontal installation (depending on the model)
- Made in France
- Reduced size range
- Lamp service life up to 9,000 hours or 1 year

STANDARD RANGE

Our units are fitted to the main water supply. Their **small size** requires only a small space for installation. They can be attached directly to the wall using the mounting system. We recommend installing a filter upstream of the unit to reduce the particles that might mask the UV radiation. We have designed a certain number of units to ensure both **filtration** and **disinfection** (filtration grade at least 25 µm).



RAIN WATER (no drinking water purification)			
GERMI UV LIGHT EC	2 m³/h*	1 lamp 25W	Input-Output 1" male
COMPLETE: FILTRATION + UV DISINFECTION			
GERMI ULTRA 500 E	800 L/h*	1 lamp 11W	50 µm filtration Input-Output 3/4"
GERMI ULTRA 1000 E	2 m³/h*	1 lamp 25W	50 µm filtration Input-Output 3/4"



COMPACT			
GERMI AP 36	2.5 m³/h*	1 lamp 36W	Input-Output 3/4"
GERMI AP 60	5.5 m³/h*	1 lamp 60W	Input-Output 1"
GERMI AP 95	9 m³/h*	1 lamp 95W	Input-Output 1 1/4"
UV STATION: DOUBLE FILTRATION + UV DISINFECTION			
UV STATION 3E	2 m³/h*	1 lamp 60W	50 µm filtration and active carbon Input-Output 3/4"



*Average flow treated for UV transmittance rates between 92% and 98% at 254 nm, and UV doses varying from 25 mJ/cm² to 40 mJ/cm².



GERMI AP 40 E



GERMI AP 75 E

STANDARD ELECTRONIC RANGE

GERMI AP 40 E	2 m ³ /h*	1 lamp 40W	Input-Output 3/4" male screw
GERMI AP 75 E	3 m ³ /h*	1 lamp 75W	Input-Output 3/4" male screw



GERMI AP 75 EP



GERMI BP 75 EP



GERMI CP 75 EP

STANDARD ELECTRONIC RANGE WITH PHOTORESISTANCE

GERMI AP 75 EP	8 m ³ /h*	1 lamp 75W	Input-Output 1" 1/2 male screw
GERMI BP 75 EP	13 m ³ /h*	2 lamps 75W	Input-Output 2" male screw
GERMI CP 75 EP	23 m ³ /h*	3 lamps 75W	Input-Output 2" 1/2 male screw

FILTRATION

Do not hesitate to contact us for all our [filtration solutions!](#)

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