

UV - WATER

UV-C system for water treatment

UV-WATER UV is a special UV-C system for water disinfection.

UV-C treatment is ideal for well water disinfection, cistern, or any source that present traces of microbiological pollution (ie. Coliforms, Streptococcus, Escherichia C.) and other microorganisms of various types, like molds, spores, etc.

In addition, it is ideal for water post-treatment, for example downstream active carbon filtration systems. All micro-organisms are eliminated by UV-C irradiation in a safe and rapid way, even Giardia, Cryptosporidium, and Pseudomonas Aeruginosa are eliminated completely, despite they are usually complicated to be removed.

UV-C treatment is purely physical, and it allows you to get always the same effect with no harmful by-products, without affecting smell, taste, and water's pH.

UV-WATER maintains the natural and beneficial characteristics of the treated water as it does not affect the minerals naturally dissolved in it.

UV-WATER is compatible with all other water treatment methods such as filtration, water softening, dechlorination with Activated Carbon. In some cases, law establishes the use of UV systems as mandatory, especially when water does not have any antimicrobial protection.

Installation is simple and can be performed by a common plumber. Use and management of the system does not require special skills: the operations of ordinary maintenance and periodic replacement of the UV lamp (recommended every 9000 hours of use) can be performed without difficulty.



WHAT ARE UV-C RAYS?

Light in a broad sense can be divided in visible, infra-red and ultraviolet rays.

Ultra-violet rays (invisible) can be classified in:

- UV - A (with tanning properties)
- UV - B (with therapeutic properties)
- UV - C (with germicidal properties)

The germicidal effects of the UV-C radiation destroy DNA of Bacteria, Viruses, Spores, Fungi, Moulds and Mites avoiding their growth and proliferation.

UVGI technology is a physic disinfection method with a great costs/benefits ratio, it's ecological, and, unlike chemicals, it works against every microorganisms without creating any resistance.



Ring-cap particular



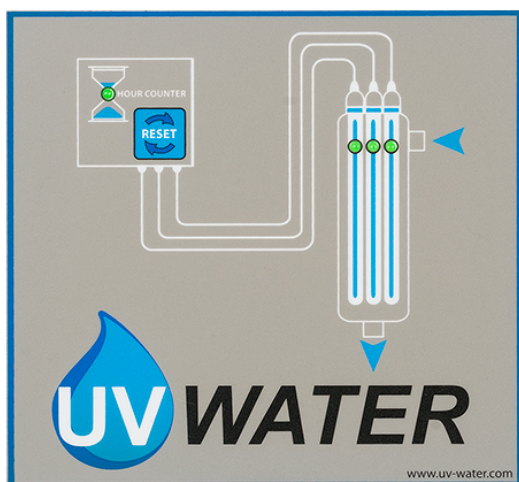
UV-WATER-3/90H



TECHNICAL FEATURES

- Selective UV-C tube (at 253.7 nm.) with high efficiency.
- Stainless Steel AISI 304L body.
- Hourcounter.
- Alarm for lamp replacement / malfunctioning.
- Reset button
- All used materials are tested for resistance to intense UV-C rays
- Powered by electronic ballasts specific for UV-C rays lamps. UV-C (220-240 V, 50-60 Hz).
- CE mark (LVD 73/23 - EMC 89/336 - MD 93/42 - RoHS).

UV - WATER safe disinfection



Example of control panel

UV-WATER series includes different models of sterilizers, with 1, 2, 3 or 4 UV-C lamps.

To select the right device you must consider water flow, but also its transparency to UV-C rays, defined as UV-T. UV-T should be around 95%, if not the system has to be oversized.

Water passes through the stainless steel AISI 304L germicidal chamber, and it is irradiated by the lamp/lamps contained inside it.

UV-C lamps are inserted in a special quartz sleeve which guarantees water tightness and its resistant to a pressure up to 8 bars; in addition it isolates also the lamp from thermal shocks.

Light Progress lamps' emit a dose of germicidal energy lethal for all microorganisms and a special disks system (septa) on its design, causes high revolving turbulences and mix the water flow, allowing UV-C rays to reach the entire circulating liquid mass.

UV-WATER series systems are produced entirely in Italy and are widely used also in various professional and industrial sectors, as well as in civil applications.