

OZONE DISINFECTION SYSTEM LAUNDROMATS

Ozone is nature's natural purifier. This naturally occurring product is produced during lightning and electrical storms as well as when solar ultraviolet rays strike the earth's upper atmosphere. This is the famous Ozone layer which protects us from the harmful UV radiation produced by the sun.

Ozone is generated when an oxygen molecule (O₂) is exposed to high energy, ultraviolet (UV) light and is converted to an Ozone (O₃) molecule. This extra oxygen atom is what makes Ozone a highly "energetic" oxidizer (3000 times faster and 150 times more efficient than chlorine).

Ozone's effects come when this "extra" oxygen atom is released and allowed to oxidize and destroy bacteria, viruses, as well as other organic matter in the water.



The Office of
Energy Efficiency offers
financing of \$7.50 per GJ
of energy saved.



Benefits

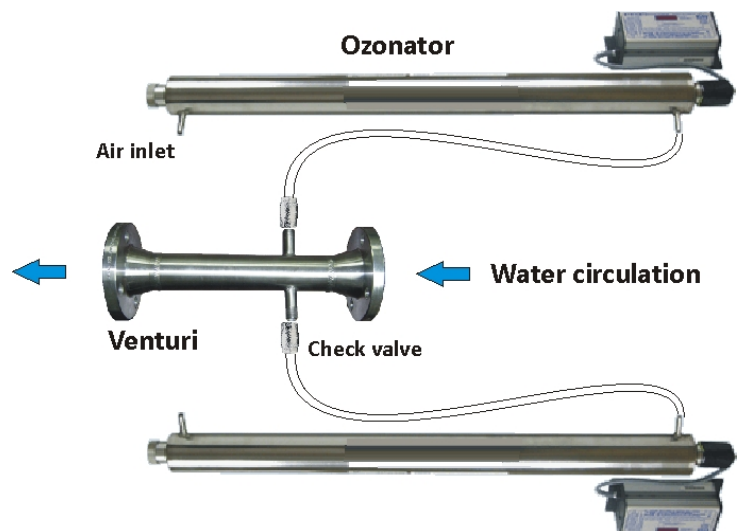
- Effective and natural disinfection of water without changing its parameters.
- Significant reduction of required washing and sterilizing temperature. It can go as low as 32°C, allowing energy savings of up to 75% of the total initial energy consumption.
- Reduction of chemical products and detergents necessary for washing given ozone's exceptional disinfecting power.
- Reduction of drying time.
- Reduction of fabric wear.
- Easy to install on the wash water intake.

Ozone reinforces the detergents chemical compounds cleaning action. It brings more oxygen in the wash water, purifies and softens it. It also decomposes greases and oils while preventing particle deposit on the clothes.

Features

- Operation monitors and trip alarm.
- Display of the residual operation life of the UV lamp (in days) and total number of days of activity.
- Electronic ICE Controller providing constant current output, lower temperature operation and excellent efficiency.
- Sealed reaction cell (made out of 304 SS) to protect the electrical components and the external housing of the oxidizing effects of ozone.
- 316L stainless steel venturi custom made for laundry applications using very hot water.
- Minimum Maintenance: Easy replacement of the lamp once a year.

H₂O Biotech's Ozone Disinfection systems differentiate themselves by their abundant and stable ozone creation, unaffected by the ambient humidity.



HOW IT WORKS

By going through the venturi, water creates an important depression in the ozonator. Reacting, the ambient air is drawn into the reaction chamber to there be exposed to radiation from a UV lamp. This lamp transforms O₂ molecules into O₃ (ozone).

Still drawn by the venturi, the newly created ozone is then injected in the water where thousands of micro-bubbles will form. The unique venturi design creates an energetic mixing allowing a fast regeneration of the gas-liquid contacting surface. Disinfection is then instantaneous. At the end of the cycle, ozone naturally transforms itself back into oxygen. The check-valve prevents water to return to the ozonator.

WARRANTY

The manufacturer warrants the mechanical and electrical components of the ozonator against defective materials or workmanship for a period of five (5) years from the date purchased by the initial purchaser (consumer). This warranty is not transferable. The manufacturer guarantees that the UV lamps will be free of defective materials or workmanship for a period of one (1) year, and the reactor chamber for a period of seven (7) years. Some conditions apply.

