Ozone Room Sterilization Unit
AOR Series
Ozone is the fastest-acting oxidizing disinfectant and the most efficient broad-spectrum, microbiological control agent commercially available. Being highly reactive and completely non-discriminating, it immediately starts oxidizing anything it comes in contact with. This makes ozone a very powerful bactericide agent.

Unlike any other oxidizing agent, ozone decomposes into environmentally friendly oxygen, leaving no toxic residues.

Where to use the Ozone Room Sterilization Unit?

› Disinfect air in operating rooms, doctors’ offices, and healthcare facilities
› Deodorize clothing and fabrics from smoke or pet smells
› Kill bacteria on food and food packaging areas
› Remove mold spores and yeast from the air for food processing
› Kill insects in storage areas
What is OZONE and how it's produced?

Ozone, or trioxygen, is a fast-acting oxidizing disinfectant made up of three oxygen atoms, O₃. Ozone occurs naturally in the upper atmosphere, or stratosphere, when the sun’s light splits oxygen molecules, O₂, into separate atoms. When these single atoms bond with other oxygen molecules, they form ozone, protecting us from the sun’s harmful ultraviolet rays.

Commercially, ozone can be used to disinfect, deodorize, and sanitize the air, sterilize equipment, and remediate mold. Ozone also kills microorganisms, such as bacteria, in drinking water, pools, and spas.

The Corona discharge method is the most common method used to generate ozone for commercial use, due to its low cost and high reliability. This method uses an electrical charge to split oxygen molecules into individual atoms. An air dryer or an oxygen concentrator will lower the amount of nitrogen in the air and reduce the risk of forming nitrogen oxides or nitric acid.

Ozone is less stable than oxygen. When ozone comes in contact with bacteria, an oxygen atom breaks away from the ozone molecule, oxidizing and thereby neutralizing the bacteria.

As ozone disinfects, it naturally decomposes into oxygen, O₂, leaving no toxic residues.

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solidly built & easy to operate
Beth-El Machinery Product Lines Include

The AFR and ACR series
**High Clean Rotary Filler and Capper**
With extremely high hygienic standards, our machines provide filling and capping for products with a long shelf-life. Available with an output speed of between 1000 and 6000 containers per hour, depending upon the product.

A servo driven CNC filling machine’s functions are fully servo or, pneumatic driven, and controlled from the control panel.

The High Clean Continuous Bottle Cleaner
From the AWC series, these machines have a highly flexible set-up which can accommodate containers with a variety of sizes and shapes.

Incorporating a range of capabilities, the High Clean Continuous Bottle Cleaner has an output speed of up to 15,000 containers per hour.

**The AFR series High Clean Filling**
These machines are designed for an extremely high hygienic standard, and enable products to maintain a long shelf-life.

The Inline Filling Lines are capable of output speeds up to 3600 containers per hour.

Custom Processing Line Engineering and Manufacturing

Beth-El Machinery produces turnkey projects in the engineering and manufacturing of custom processing lines, pasteurization, deaeration, product recovery systems, and homogenizer systems.

Applications include fermentation, carbonation, control systems, and batch and continuous mixing and blending systems for various fields in the food, chemical, and pharmaceutical industries.

Beth-El Machinery’s process units, systems, solutions, and complete processing plants are a direct result of engineering expertise within core disciplines. Our goal is to apply these varied technologies in the most efficient and reliable ways to produce the highest quality process systems and plants available. Beth-El Machinery designs and manufactures the systems that, in turn, do the work for you.

Core Expertise:
- Liquid processing
- Mass & heat transfer
- Controls & automation
- Packaging machines
- Sterilization units
- Ozone water units

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