

TYPES OF SELF-CLEANING TECHNOLOGY

We offer three different types of Self Cleaning Water Coolers: **UV Care Technology, HotClean Sterilization & Self Cleaning Ozone.**

UV Care

Our new UV LED technology brings several key benefits. It's a more environmentally friendly and efficient method of sanitization compared to ozone. The UV LED utilizes ultraviolet light to disrupt the DNA of bacteria and viruses, ensuring your water is clean and safe to drink without any chemical residues.

The UV-Care Technology in our bottom load water coolers features a UV LED light placed strategically to ensure consistent sanitation. It activates periodically, running for just a few minutes every hour, to disinfect the water. This intermittent yet effective operation prolongs the life of the LED, which is designed to last for over 12 years, providing peace of mind and reducing the need for maintenance.

With UV-Care, maintenance requirements are substantially reduced due to the durable nature of LED technology. The system is also energy-efficient, operating only when necessary, which is beneficial both for the environment and your energy bills.

As for the hot water tank, there's no need for UV LED sanitization. The high temperature of the heated water serves as a natural sanitizer, ensuring that any harmful germs are eliminated.

HotClean Sterilization

The Brio 820 series countertop cooler features the innovative HotClean Sterilization system. This system operates by boiling water in the hot tank and then circulating it throughout the cooler. The process involves pushing the hot water out through the spout and then drawing it back into the cold tank. This constant circulation of nearly boiling water ensures that the water remains piping hot within the cooler.

HotClean Sterilization is an effective natural sanitization method for several reasons.

Firstly, the high temperature of the hot water eliminates bacteria and other microorganisms, ensuring the water is safe to drink.

Additionally, this process sanitizes not only the hot and cold tanks but also the internal piping connecting these tanks to the spout. By using hot water for sanitation, the Brio 820 series offers a chemical-free and efficient way to maintain the cleanliness and safety of your water cooler.

Self-Cleaning Ozone Technology

We use an ozone generator in some of our Brio water coolers. This device transforms ordinary oxygen molecules (O₂) into ozone molecules (O₃) through a process called corona discharge. During this process, high-energy electrical discharges cause the oxygen molecules to split and then recombine as ozone molecules.

The generated ozone is then introduced into the cold water tank using a diffuser mechanism to ensure even distribution within the water. Once ozone is introduced into the cold water, it undergoes a chemical reaction with contaminants, microorganisms, and organic matter present in the water. This reaction serves to sanitize and cleanse the tank effectively.

Ozone is characterized by its high reactivity and relatively short half-life. After fulfilling its role in disinfection, ozone naturally reverts to oxygen (O_2), leaving no undesirable residues or byproducts in the water.

Primarily, ozone targets and sanitizes the internal surfaces of the cold water tank, encompassing the tank walls and any components in direct contact with the water. Its purpose is to inhibit the growth of bacteria, algae, and other microorganisms that may accumulate in the tank over time.