



THE POWER

Ozone is the most powerful and cost effective oxidizing agent known to man. For instance, ozone kills E.coli approximately 3,000 times faster than chlorine. As a disinfectant, ozone doesn't just kill bacteria, viruses, and other waterborne microorganisms – IT DESTROYS THEM! *In 1991, the U.S. Environmental Protection Agency confirmed that ozone is the most effective primary disinfectant available for drinking water. In fact, ozone is far more effective than conventional disinfectants against the microbial contaminants including Escherchia coli, Salmonella, Giardia, and Cryptosporidium - that have invaded our food and water supplies and claimed numerous lives in recent years. In an increasing number of applications that involve disinfection and oxidation, ozone is clearly the best next-generation technology-a far more effective approach than traditional methods involving extensive chemical applications that produce secondary pollutants.*

THE CHALLENGE... "DIRTY ICE"

Ice is a food. It should be handled accordingly. Ice machines and/or drink dispenser/ice machine combinations are prone to microbial contamination. The air pulled in to cool the unit and the water entering the unit to be used for forming ice are permanent means of microbes to enter these machines. In addition, the bacterial build-up that originates in the floor drain makes its way into the interior of the ice machine and contaminates the machine and it's contents. Further, public contact with the drink dispensers and ice machines in many retail settings poses yet another source of bacterial contamination for drink dispensers and ice machines. The risks of Health Department violations or a patron becoming seriously ill are constant. Not only is bacteria a health risk, it can also be the cause for reduced ice production or complete break-down of a unit (ice machine or ice machine/drink dispenser combination) similar to the effects of excessive mineral scale, slime build-up, dirt and corrosion. In addition, it is more than likely that there would be a need for more frequent and extensive cleanings that can be costly. Lastly, it would certainly be troubling to consumers if they see evidence of the contamination in the form of slime or scale.

THE HISTORY OF OZONE

Ozone was discovered in 1840. It has been used as a disinfectant in drinking water since 1893. The first large application was undertaken in Nice, France in 1906. The French used ozone to purify the water in the city water system. It has been widely used in all of Europe ever since and has been embraced as a viable disinfectant in America since 1940. The United States Department of Agriculture approved the use of gaseous ozone for meat storage in 1957. And in 1982 the FDA affirmed GRAS status for ozone specifically for bottled water.

Phone Number
Email Address

Without OzoCLEAN™



With OzoCLEAN™



THE SOLUTION ... OzoCLEAN™

OzoCLEAN has spent the last 20 years working with Ozotech, Inc. perfecting a safe and efficient system utilizing a 12V DC ozone generator in an ice machine/ice machine drink dispenser combination - to sanitize the ice making process. The *OzoCLEAN™* system is installed in a strategic location completely **WITHIN** the icemaker using proprietary methods (patent pending). To maximize personnel safety, there are no exposed wires or tubing used in the system. Ozone gas (which is heavier than air) is generated on-demand and permeates the entire machine. Independent laboratory reports have confirmed that the ozone gas delivered using the *OzoCLEAN™* solution disinfects every aspect of the ice machine unit including the ice itself. It flows from the ice-making compartment into the ice bin, as well as down the drain, where it is captured in a way that prevents bacteria from coming back up into the ice machine from the drain pipe or sewer systems. With the *OzoCLEAN™* technology, monthly or quarterly service calls for clean up are virtually eliminated. Based on our research and extensive in-store testing in a variety of challenging settings, ice machine units with the *OzoCLEAN™* technology require only one cleaning visit annually. The cost for the *OzoCLEAN™* solution is quickly recaptured with the elimination of approximately two service calls per year.

The concerns of excessive out-gassing are addressed by variable settings located externally on the generator housing and other passive proprietary methods (patent pending).

OzoCLEAN™ is retro-fitable on 80% of the commercial cubers already in service using a popular type of water pump. Additionally, the simplicity of the *OzoCLEAN™*

solution affords ice machine manufacturers the flexibility of designing a control circuit to energize the system during non-ice making periods, ensuring a constant state of sanitation within the machine.

OzoCLEAN™ ... NATURE'S WAY AND A SAFE WAY.

Ozone is safe and environmentally friendly. Ozone has broad acceptance as a sanitizing solution, with uses in the bottled water industry, cooling towers, pools and spas, water features, and the agricultural industry; just to name a few. In 2000, both the FDA and the USDA have granted "GRAS" (Generally Regarded As Safe) status for the use of ozone in the food industry. Many water treatment plants in the United States upgraded to ozonation in 1993 to comply with the EPA's 1991 surface water treatment rule, promulgated under the federal Safe Drinking Water Act. This rule required various contaminants to be reduced, including viruses (by 99.9%). In issuing the rule, the EPA listed chlorine, chlorine dioxide, chloramine, and ozone as candidates to accomplish the task and included data showing ozone to be the most effective option. (Ozonation can be up to 300 times more effective against Giardia than disinfection by-products – substances that are also coming under increased regulatory scrutiny.) The EPA has listed ozone as being compliant with disinfection by-product rules. Most importantly, after ozone has completed its function as a disinfectant, it quickly reverts back to its original form - PURE OXYGEN!



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