



FAQ's:

Q: How does the O₃-Matic device work?

A: The **O₃-Matic** device attaches to the incoming water line, generating ozone directly into the water feeding the ice maker. Ice is then made from the ozone-treated water, effectively sanitizing surfaces in the ice machine, bin, and related utensils.

Q: How is the ozone created in the water?

A: Ozone is created by electrolysis directly in water as it flows through a cell equipped with electrodes made of long-lasting, boron-doped solid synthetic diamond.

Q: When it's frozen, is the ozone inside or outside of the cube?

A: The ozone is present throughout the ice cube, with a higher concentration in the outermost layer.

Q Does the ozone end up in the customer's beverage? Is it safe?

A: Ozone is FDA-approved as a food and water additive. In addition, the amount of residual ozone in the ice is well below levels of detection by the average person and thus is not expected to have any effect on the taste.

Q: Will the ozone in the ice impart any adverse effect on beverage taste?

A: To the contrary: It's important to note that ozone is recognized to be an effective oxidant used to reduce unpleasant taste and odors in drinking water. The EPA Guidance Manual, *Alternative Disinfectants and Oxidants*, specifies ozone for unpleasant taste and odor removal.

Q: How long does the ozone created remain effective?

A: Ozone is well preserved in ice and dissipates gradually and safely in the ice bin. In practical terms, the ozone remains effective for the entire period between freezing, storage and transportation, until it is dispensed and served.

Q: What happens to ice sitting at the bottom of the ice bin for an extended period of time?

A: The ice gradually melts and the resulting water drains from the bin. The “ice melt” contributes to the ozone’s ability to sanitize bin surfaces, as well as the drain fixture and line.

Q: Does this work in any size machine or ice bin?

A: This device is capable of supporting ice cube-making machines rated at up to 2,000 lbs. per day. The device is effective with most standard-sized storage bins, and any number of bins.

Q: How does the operator know when to replace the cartridge?

A: Our user-friendly design includes a blinking LED indicator to tell the operator it’s time to change the cartridge. (The cartridge needs to be renewed every 6 to 12 months, depending upon ice-making volume.) There are also indicators to show that the unit is producing ozone correctly, or that it requires service.

Q: Is ozone gas released in an ice machine a possible inhalation hazard?

A: Our electrolytic method of producing ozone from-water in-water has been optimized for compact spaces. It kills bacteria and other microorganisms within the ice bin, while keeping ozone gas levels far below OSHA PEL (permissible exposure limits) standards for safety. Alternative ozone technologies, namely “corona discharge,” have not been suited to confined spaces and may have presented concerns about workplace safety.

Q: Does the ozone degrade materials like polymers and metals in the machine?

A: Our method of producing ozone from-water in-water gradually releases ozone in a dissolved liquid form within the ice storage bin, thus avoiding high concentrations of ozone gas that can have adverse effects on the ice machine materials.

Q: Does O₃-Matic have external agency validation of the sanitation claims?

A: Efficacy of the **O₃-Matic** Ice Sanitation Technology device on biofilm has been verified by an independent lab. Results for one type of bacteria—*e. coli*--clearly indicate the device achieved a total kill (5-log). Testing for other types of microorganisms is underway.