





### **Enozo EcO<sub>3</sub>Ice - Introduction**

- EcO<sub>3</sub>Ice Antimicrobial Ice Protection Device is a portable, on-demand diamond electrolytic ozone generator that introduces Aqueous Ozone into the water supply for commercial ice machines.
- EcO<sub>3</sub>Ice provides a small amount of Aqueous Ozone that works to reduce bacterial levels in water and throughout the ice making process inside of the ice machines.
- A residual amount of Aqueous ozone gets trapped inside the ice as it is manufactured, allowing for your ice product to be bacteria free while remaining tasteless, odorless, and safe for consumption.





Two months using EcO<sub>3</sub>Ice. Same evaporator in pictures.





### The challenge:

### Ice contamination is real















### **Enozo EcO<sub>3</sub>Ice Basics**

- Attaches quickly and easily to the incoming water line of ice machine
- Runs silently and automatically
- Uses an operator-replaceable, "twist-on" electrolytic cartridge;
  lasts 6 to 24 months on average
- LED indicator lights show status and tell when it's time to replace the cartridge
- ► EcO<sub>3</sub>Ice was created to protect ice....because......

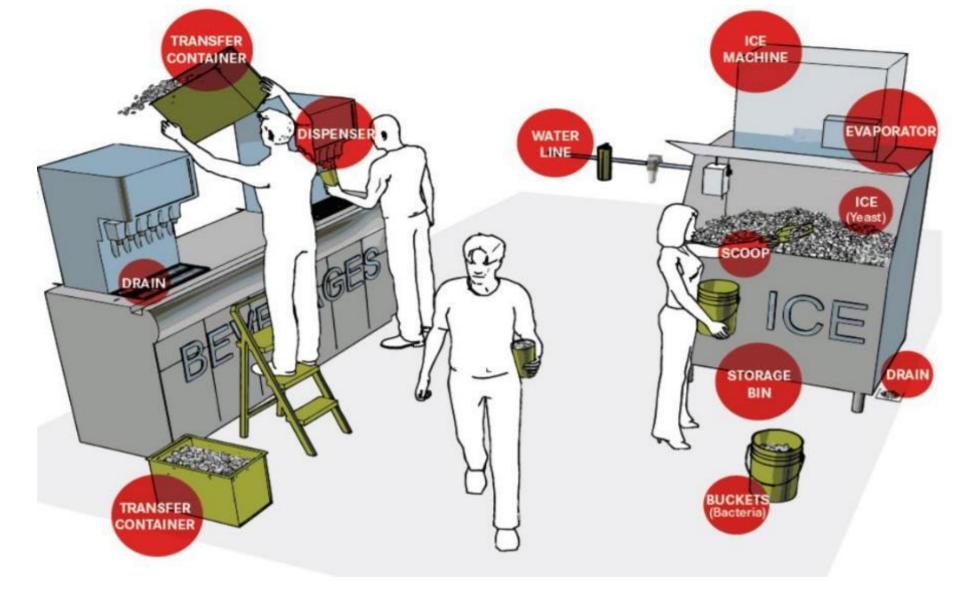


...is food

...is everywhere





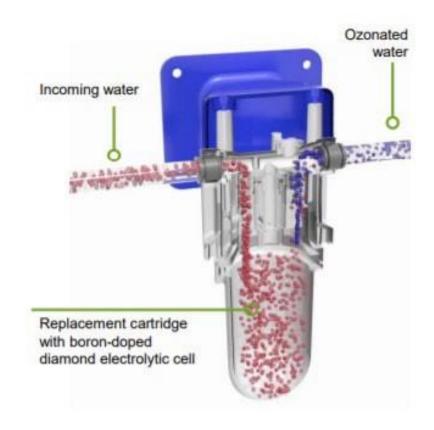






### The Solution- Enozo EcO<sub>3</sub>Ice

- EcO<sub>3</sub>Ice Antimicrobial Ice Protection uses a unique, industrial diamond-based technology to create a very small but effective amount of pure, aqueous ozone-nature's own sanitizer.
- Ozonated water circulates throughout the system, killing microbes on every surface it touches and retarding regrowth.
- The aqueous ozone reduces slime build-up on evaporator, pump, sump, water curtain, hoses, pipes & much more.
- A residual amount of ozone gas infiltrates hard-to-reach places.

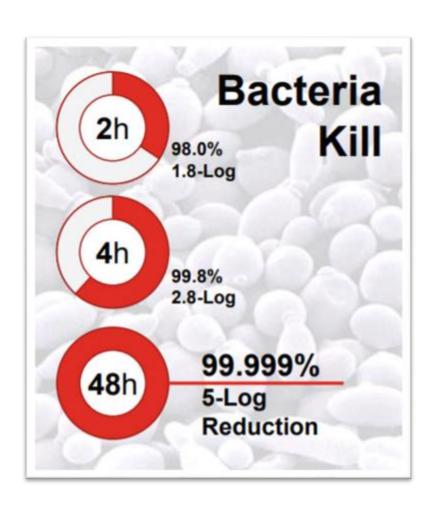






### **Enozo Ec0<sub>3</sub>Ice- KILLS Microbes**

- **■** EcO<sub>3</sub>Ice Antimicrobial device is **PROVEN** to:
  - Dramatically reduce the amount of bacteria, mold and yeast on icemaking and ice-storage surfaces.
  - Reduce the risk of ice contamination by microorganisms.
  - Inhibit formation of biofilm on ice contact surfaces.
  - In side-by-side machine testing,
    EcO3Ice kills 99.999% (5-log reduction)
    of E.coli after 48 hours.







# Enozo Ec0<sub>3</sub>lce- KILLS Microbes

Field test validation: bacteria & yeast Bacteria Tested at a popular sandwich chain 400 Swab samples taken every 2 weeks With EcOslce 8 weeks Yeast Water reservoir Thickness gauge 600 With EcO,Ice 8 weeks Mold 800 Ice bin Without 400 With EcO.Ice 4w 8 weeks SPC (Standard Plate Count)





#### **SANDWICH MAKING & BREAD BAKING CHAIN**

Location: USA

Year: 2016

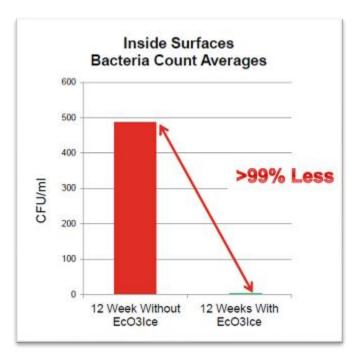
Test population: 1 restaurants

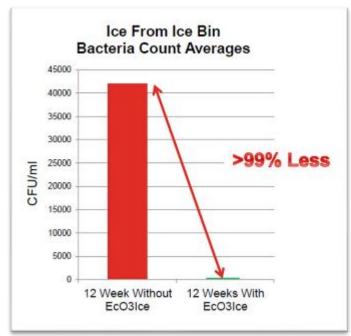
Length of test: 12 weeks without EcO<sub>3</sub>Ice v/s 12 Weeks with EcO<sub>3</sub>Ice

Results inside Ice machine surfaces: up to 99.8% microbial reduction after 12 weeks

Results on Ice quality: up to 99.997% microbial reduction after 12 weeks

Note: USEPA recommended minimum level for drinking water is 500 cfm/ml









#### **CONVENIENCE STORE CHAIN – CUBE ICE**

Location: Tennessee

Year: 2017

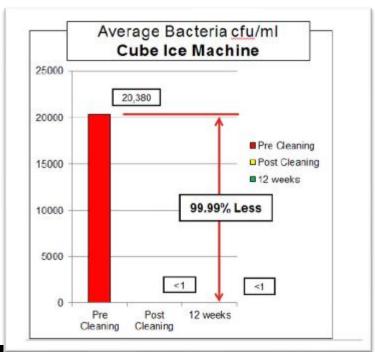
Test population: 1 restaurants (with on site pizza bakery)

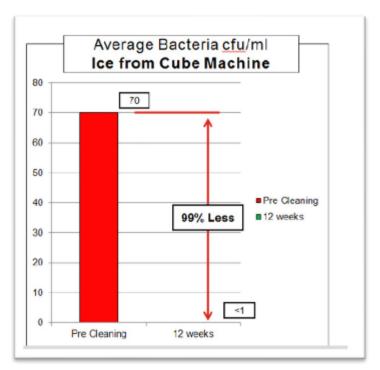
Machine: Cube Ice

Length of test: 12 weeks Results inside Ice machine surfaces: 99.99% microbial

reduction after 12 weeks

Results on Ice quality: 99% microbial reduction after 12 weeks

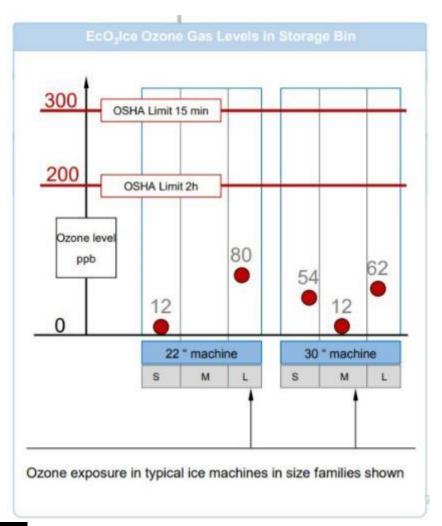








### Enozo EcO<sub>3</sub>Ice- Is it Safe?



- Stated opinion of a third-party, government regulation expert:
- ••• EcO<sub>3</sub>Ice-created ozone levels are "well below thresholds of concern for ozone in either professional or consumer use," in all key areas:
  - → 1. Ozone gas in storage bin
  - → 2. Handling of ice
  - → 3. Ozone gas near consumer
  - 4. Ingestion of ice





## **Enozo Ec0**<sub>3</sub>lce- Does it Harm Beverage?



- EcO<sub>3</sub>Ice destroys compounds which cause odor and can negatively affect the taste of water and ice
- Ozone is used to reduce contamination, taste and odors in drinking water worldwide
- EcO<sub>3</sub>Ice produces a cleaner, better ice cube with a positive effect on quality and consistency of beverages

You wouldn't serve bacteria in Food, why would you serve it in ice?





## **Enozo Ec0**<sub>3</sub>Ice- Certifications & Approvals

EcO₃Ice has approvals for compatibility with the following brands of ice machines and the following certifications:































# **Enozo Ec0**<sub>3</sub>lce- Cartridge Life & Replacement

- Cartridge life depends on 2 factors:
  - 1. Volume of water flowing through (i.e., amount of ice being made)
  - 2. Quality of water (i.e., harder the water, shorter the life)
- "Your mileage may vary," within expected range of 6 to 24 months
- Red LED light on head unit indicates when cartridge requires replacement
- For simplicity, Enozo recommends replacing the cartridge at same interval as the ice machine's water filter cartridge



 Cartridge life-tested to 50K gallons at 17.5 grains hardness





### **Enozo Ec0**<sub>3</sub>lce - Requirements

- ► EcO<sub>3</sub>Ice installs in 15 minutes or less
- Integrated mounting plate
- Requires 110v outlet. EcO<sub>3</sub>Ice wall-wart plug can be applied to 100v or 208v power source.
- Enozo EcO<sub>3</sub>Ice plug comes with international outlet adaptors
- Must be installed "down stream" of any filtration device
- For best results, use standard carbontype water filtration
- EcO<sub>3</sub>Ice is ONLY installed on new or recently deep cleaned/sanitized ice machines









