

OZONE TECHNOLOGY FOR SEAFOOD PROCESSING

Natural Sanitizer



Ozone is a very powerful oxidizer with twice the oxidizing potential of chlorine bleach. A natural disinfectant, ozone is replacing traditional chemical oxidants in a growing number of

industrial processes, including food, beverage, dairy and seafood processing.

Ozone destroys all common pathogenic organisms through natural processes of oxidation, disinfection, and decomposition to oxygen (O₂). Because ozone is powerful in cold water, it reduces the need for hot water and steam, saving water, energy, time, and money.

Seafood Processing Applications

Ozone can be used in a wide range of applications:

- Surface sanitization
- Disinfect equipment, tools, storage area, bins, and refrigeration units
- Odor control
- Preserve seafood products/extend shelf life
- Disinfect process water
- Ozone ice for fish storage
- Aquaculture and commercial growing facilities
- Clean-in-place (CIP)

Benefits of Ozone

- Powerful disinfectant
- Natural chemical
- Extends shelf life
- No residual taste or odor
- Reduces waste
- Effective against all common food borne pathogens
- Regulatory acceptance
- Increases profitability



Critical Elements of Ozone

All complete ozone contacting systems include four vital components: Feed Gas Preparation, Ozone Generation, Mass Transfer, and Control. Successful ozone applications result when all four elements are executed properly. Pacific Ozone designs and builds integrated ozone contacting systems that ensure proper implementation of ozone for your food processing application.



O₂ Oxygen/Feed Gas Prep

O₃ Ozone Generation

MT Mass Transfer

CN Control/Monitoring



Complete Integrated Ozone Contact System

The sturdy stainless steel construction is ideal for a wide variety of applications where ozonated water is needed at a consistent rate. Systems may be optimized to meet a variety of flow rates and process requirements. Standard packages range from 10 – 500 gal/min water flow rates at 0.5 – 100 lbs/day ozone production. This scalability allows for the accurate application of ozone for a wide range of operations and requirements fulfilled with a centralized whole-plant ozone process water system.

- Stainless steel construction
- Enhanced Mass Transfer™
- Floating Plate Technology™
- Ozone Destruct System
- Recirculation compatible



Portable Ozone Systems

The portable PC Series ozone systems incorporate a Pacific Ozone high concentration ozone/oxygen generation systems with onboard pump, compressor, and mass transfer ozone injection package in a rugged, all stainless steel platform.

- All stainless steel construction
- Water resistant enclosure
- Onboard air compressor
- Onboard oxygen concentrator
- Onboard side stream injector
- Automatic flow switch
- 5-60 gal/min
- Up to 30 grams/hour ozone

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(707) 747-9600

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