Case Study: Food Processing





- Ready-to-eat meat products clean room
 - Bar S: Five integrated ozone systems in three plants
 - Diestel: One system



Other Food Processing Installations In use for minimum of 3 years

Bar-S Foods

Scala Packing

Stolt Seafarm.

Neptune

Berks Packing

Ipswitch Shellfish

Preble Fish

Mid Pacific

Brakebush Brothers

Diestel Turkey

Quantum

K-B Foods

Jennie-O-Turkey

Premium Seafoods

Willowbrook

Nova Seafoods

Cooper Farms

Fulton

Elliot Bay Fish Co.

Carolina Turkey

Freshmark Inc.

Farmer John

Wayne Farms

Crider Poulty

Holten Meats

TipTop Poultry

Indura, Chile



Hundreds of Winery Systems In Use

Ozone User List

Partial list. See link for full list: (http://www.carlsenassociates.com/)

Abacela Winery Roseburg Adalaida Paso Robles Agua Dulce Vineyards Agua Dulce Amizetta Vineyards St Helena Andrake Cellars Olympia Annadel Winery Sonoma Armida Winery Healdsburg Artesa Winery Napa Astech Japan Astrele E Terra Napa Atlas Peak Winery Napa Audubon Cellars Berkeley Ballentine Wines St. Helena Baileyana Winery San Luis Obispo Barrel Builders Calistoga Beckmen Vineyards Los Olivos Benessere St. Helena Bennett Lane Calistoga Benzinger Family Winery Glen Ellen Betz Family Winery Woodinville Blankiet Estate St Helena Briggs & Sons Calistoga Byron Winery Santa Maria

Calera Winery Hollister Cambria Wine Co. Santa Maria Carlton Winemaker Studio Carlton Cayuse Winery Walla Walla Ceago Vine Garden Redwood Valley Cecchetti Sebastiani Sonoma Chateau Julian Carmel Chateau Potelle Napa Chateau St Jean Kenwood Cinnabar Saratoga Cline Cellars Sonoma Clautier Vinevards Paso Robles Cloverdale Wine Services Cloverdale Corus Brands Sunnvside Cougar Creat Walla Walla Cypress Ridge King City Darioush Khaledi Winery Napa Davis Family Healdsburg Deerfield Ranch Glen Ellen De La Montanya Healdsburg Dieberg / Star Lane Santa Ynez Dunn Vineyards Angwin Dunnnewood Ukiah

Elyse Winery Napa Erath Dundee Ferrari Carano Healdsburg Fess Parker Los Olivos Fetzer Hopland Firestone Los Olivos Flowers Winery Cazadero Four Vines Paso Robles Frank Family Calistoga Gainey Vineyard Santa Ynez Global Wine Acampo Grgich Hills Winery Rutherford Grove Street Winery Healdsburg Guy Drew Cortez Handley Cellars Philo Hallcrest Vinevards Felton Hansel Wines Santa Rosa Hess Collection Napa Hop Kiln Healdsburg Hopper Creek Yountville Imagery Glen Ellen Iron Horse Vineyards Sebastopol Jack Creek Templeton Kenwood Winery Kenwood

King Estate Eugene Kendall Jackson Geyserville Kent Rassmusen St Helena Kendall Jackson Chile Kendall Jackson Argentina Kenneth Volk Wines Santa Maria Kunde Winery Kenwood Lambert Bridge Healdsburg L'Ecole 41 Lowdenn La Jota Angwin Ledson Kenwood Leonetti Walla Walla Lynmar Winery Sebastopol Lytton Springs Healdsburg Martin Weyrich Paso Robles Mayo Family Kenwood Medlock Ames Healdsburg Meridian Vineyards Paso Robles Midnight Cellars Paso Robles Millcreek Winery Walla Walla Milat Wine Co St Helena Morse Family Fiddletown

Onboard Seafood Production



Factory Trawler

Owner: American Seafoods Equipped with Pacific Ozone

Surimi Process for RA grade

- Disinfects
- Increase whiteness and value
- Injected into the final wash
- Meat ratio of 1:1.15 to 1:0.5 to ozonated water
- Requires less water
- Limited onboard fresh water supply benefits from ozone use

Installations on 18 ships-- 2008



Aquaculture - Fish Farming





Ozone reduces virus and bacterial threats to fish farms and the environment.





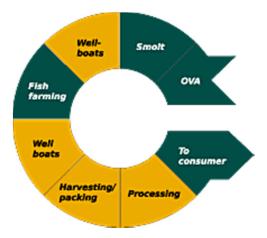
Typical Applied Dose Range 0.4ppm To 1.2ppm

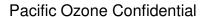


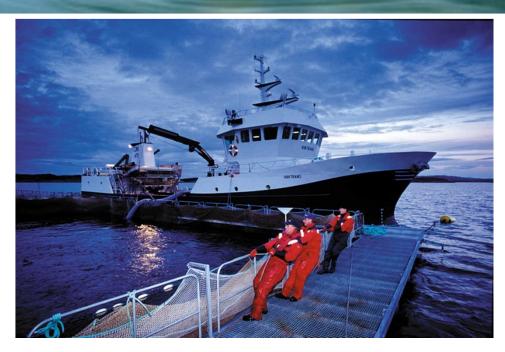
Pacific Ozone Confidential

Aquaculture Production-Well Boats









In Norway it is mandated that well boats disinfect with ozone.

Pacific Ozone onboard 40+

wellboats worldwide

Onboard Water Treatment

Uses for ozone

- Disinfects drinking water onboard
- Disinfects tanks & pipes
- Treats grey and black water
- Few undesirable byproducts
- Reduces onboard chemical handling



The Supply Vessel "Northern Canyon" outside Norwegian Port with SGA Series ozone equipment installed for drinking water – Operates worldwide

