

# 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 Poultry  
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 Vineyards Paso Robles  
Cloverdale Wine Services Cloverdale  
Corus Brands Sunnyside  
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 Vineyards 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  
Moshin Vineyards Healdsburg  
Moss Creek Napa



# 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



# 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