

Ozone Generation

DSI Process Systems has the solution to help you produce great tasting beverages that are free from contaminants and have extended shelf life. An ozone injection system can easily be integrated with the DSI Water Blending System.



The DSI Water Blending System featuring an ozone injection system.

Ozone Injection System

The ozone injection system is self-contained and is completely pre-piped and pre-wired into the water blending skid. The ozone injection system consists of an eductor located in a recirculation line off of the filler supply pump and returns to the ozone contact tank. The dissolved ozone probe is mounted before the recirculation connection in the filler supply pump discharge so that it is able to monitor the ozone level at all times. The recirculation flow is regulated to a constant 50 gpm to provide ozone control.

Features

- The ozone set-point is entered from the water blending system operator interface and is controlled with a PID loop
- Product ozone levels can easily be verified using the sample port next to the dissolved ozone monitor
- A check valve and automatic ball valve prevent water from entering the ozone generator
- The ozone generator is also equipped with an internal drain valve to prevent water from entering the generator



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Ozone Generator Components

- Ozone generator with oil-free air compressor, ozone generator and air dryer
- Includes controller with display and 4-20mA inputs/outputs
- All air filter regulators are included with the generator
- Integrated phone modem included in ozone generator
- Entire ozone generation unit is housed in a single washdown enclosure which is mounted next to the main power enclosure

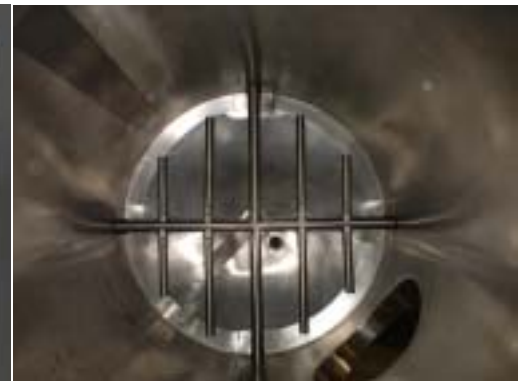
With over 50 years of experience, DSI Process Systems is the sanitary process expert.

Using computer aided design, DSI engineers work closely with clients to build systems with equipment and features that will serve their needs well into the future. A multi-disciplined staff brings all aspects of the project under one roof, providing a "pull it all together" approach.

A project is considered complete when the client's needs are satisfied.

Ozone Integration Components

- Ozone contact tank - 2,000 gallon, 316L SS vertical tank, with sprayball assembly, ozone destruct and HEPA filter vent connection, top head recirculation connection and side wall ozone diffuser connection
- HEPA vent filter
- Ozone destruction unit
- ½" automatic ball valve and check valve in ozone injection line
- Ozone eductor and diffuser pipe
- Ambient ozone room monitors
- Dissolved ozone monitor – Hot CIP compatible



- Automatic microcontroller dosage control
- Patented air/electric cell cooling
- High frequency, high efficiency power supply
- Independently controlled multiple outlets
- Modular construction for easy expansion and service
- Integral robust multistage air preparation

Process/CIP Design
Automation/Electrical Design
Fabricated Modules/Components
Installation
Project Management
Commissioning/Training
System Integration
Design/Build Projects



We serve the following industries:
Carbonated and Non-Carbonated Beverages,
Juice, Water, Food, Dairy, Pet Food, Personal
Care Products, Pharmaceutical, Household
Goods and Specialty Chemical.