



PUROWASH™

◊ SAFER ◊ HEALTHY ◊ LONGER-LASTING
ECO-FRIENDLY OZONE TREATED

FEATURES

- OZONE CONCENTRATIONS UP TO 10 PPM
- OPERATES AT INCOMING SYSTEM PRESSURE
- OZONATED WATER UP TO 300 GPM
- FULLY INTEGRATED SYSTEM
- INCLUDES DISSOLVED OZONE MONITOR
- STAINLESS WITH TRI CLAMP CONNECTIONS

DESCRIPTION

The PurOtecs HICON is a fully integrated stainless steel system that delivers pressurized ozonated water with high concentrations of dissolved ozone. The output flow rate can vary from 0 to the rated flow while maintaining consistent ozone concentrations and system pressure. The system includes everything necessary to directly interconnect with all PurOtecs ozone generators, resulting in a complete spray washing system. A dissolved ozone monitor is included to provide a readout in ppm and feedback to the ozone generator for automatic control. An air relief valve is located on the top of the tank to remove any undissolved ozone and the remaining gasses. The Tri Clamp ozonated water outlet is pressurized by the incoming water. The HICON operates under pressure up to 50 psi to maximize the transfer of the ozone into the water. The PurOtecs ozone generators use oxygen as the feed gas, generating high purity high concentration ozone that also maximizes the amount of dissolved ozone.

Combining the HICON with a PurOtecs ozone generator, mounted on a stainless steel skid, provides a complete system requiring only an electric power and inlet water connection. When interconnected to the ozone generator the control setpoint (ppm) is entered through to color touch screen on the ozone generator. The switch on the front of the HICON allows the operator to turn the system on and off as well as selecting the high or low setpoint.

SPRAY WASHING

Highly ozonated water used to spray wash fresh produce is very effective for reducing bacteria and molds and increasing product shelf life. The time required to reach the desired treatment level is minimized because of the high level of dissolved ozone. When the pressurized ozonated spray wash water is released at the nozzles, millions of ozone bubbles are created. This ozone gas along with the ozonated water creates an extremely active disinfectant. Typical treatment times for fresh products are from a few seconds to 1 minute. A hood located above the spray wash system removes excess ozone gas from the work place. Cross contamination from spoiled or damaged produce is minimized resulting in increased shelf life. Ozonated water is FDA approved for direct food contact and be used during processing to get and keep the product clean while also keeping the processing equipment clean. Following production the ozonated water can be used as the sanitizer for facility cleaning.

SURFACE DISINFECTION

Spray washing surfaces with high concentration ozonated water is an excellent cost effective method to assure maximum disinfection. Using ozonated to wash work surfaces, sanitize equipment or wash product will minimize the cleaning time and provide excellent sanitization. The ozonated spray wash waters can be filtered and reused or used as make-up water in another part of the process. The HICON provides pressurized ozonated water with controlled concentrations of ozone up to 10 ppm, thus minimizing the length of time required for sanitization. Two swith selectable setpoints provide ozonated water for processing and a higher concentration for facility cleaning.

CIP CLEANING

PurOtecs ozone generators use oxygen as the feed gas to produce the purest high concentration ozone to be dissolved in water and used for CIP cleaning. CIP cleaning using high concentration ambient temperature ozonated water significantly reduces the treatment time while providing excellent sanitization. Ozonated water is recirculated through closed systems until the level of ozone entering the system equals the ozone level of the water exiting the system. Once the ozone levels are equal the system is sanitized as there is nothing left for the ozone to treat. The dissolved ozone in the water remaining in the system will revert back to oxygen with no requirement to open and flush the system. The reduced time to sanitize provides more time for production.

SPECIFICATIONS: HICON

TYPE: Pressurized tank with recirculation pump and venturi ozone eduction
 OPERATING PRESSURE: Up to 50 psi incoming pressure
 PRESSURE RATED: 135 psi
 RECIRCULATION PUMP: 316 stainless steel sanitary Tri Clamp pump
 INLET WATER: Tri Clamp fitting
 OUTLET WATER: Tri Clamp fitting
 OZONE INJECTION: PurOtecs venturi/static mixer with ozone inlet check valve
 OZONE VENTURI INLET: 3/8" stainless steel compression fitting
 BACK FLOW PROTECTION: PurOtecs water safety drain on ozone inlet line
 OZONE MEASUREMENT: Dissolved ozone monitor 0 to 20 ppm
 CONTROL: On/ Off with two setpoints in ppm
 OZONE DEGAS: Air relief valve with 1/2" NPT connection
 CONSTRUCTION: 316 Stainless Steel
 POWER: 208 V 3 phase L1, L2, L3, Neutral and Ground

Patented 10046077

Model	Outlet Flow	Pump	Inlet	Outlet	Tank	Skid Size
440025	0 to 25 gpm	5 Hp	2"	2"	50 Gal	40"L x 20"W x 72"H
440050	0 to 50 gpm	5 Hp	2"	3"	100 Gal	48"L x 24"W x 78"H
440100	0 to 100 gpm	7.5Hp	3"	3"	200 Gal	52"L x 32"W x 78"H
440200	0 to 200 gpm	10 Hp	3"	4"	400 Gal	72"L x 40"W x 102"H

Consult factory for special sizes and flows

Patent 10,046,077 B2
 10,646,606 B2