

FEATURES

- HIGH OZONE CONCENTRATIONS
- LARGE LOG REDUCTIONS
- INTEGRATED TREATMENT SYSTEM
- INCREASED OZONE CONTACT
- TREATED WITH WATER / GAS
- FITS INTO EXISTING SYSTEMS
- NO OZONE OFF GASSING

DESCRIPTION

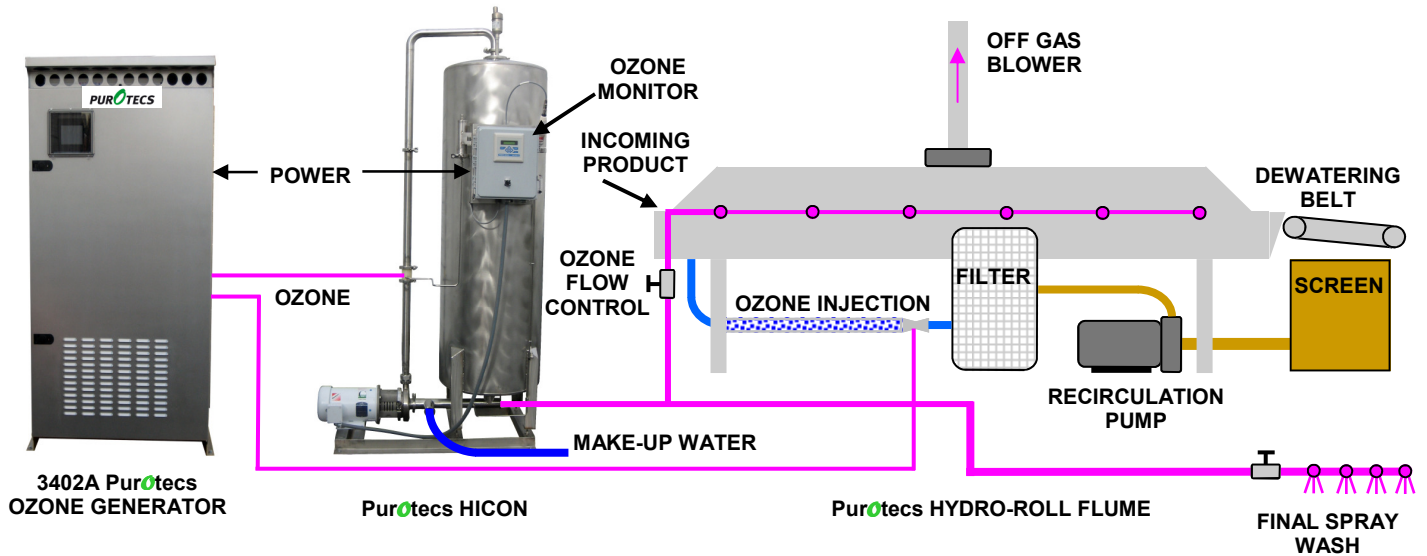
The unique Pur^otecs HYDRO - ROLL Flume is a fully integrated flume system for washing products to provide a significant reduction for the biological issues. The all stainless flume exposes the products to highly ozonated water as well as to millions of small ozone gas bubbles. The gentle rolling action of the water opens up the products to provide excellent exposure to the ozone. The ozone level in the water is set and controlled by the ozone generator from 1 up to 5 ppm. The system incorporates a HICON to provide the high concentration ozonated water that is released into the flume from the nozzles located along one side of the flume. The pressure reduction of the ozonated water at the nozzles creates the shower of ozone gas micro bubbles. The water entering the flume from the side nozzles of the round flume causes the water to roll. The amount of rolling action is controlled by the amount of ozonated water entering from the sides. The treatment times to provide the desired biological results are reduced allowing more product to be processed. The ozone off gassing common in many ozone systems has been addressed by making the flume a covered round cylinder that includes a exhaust blower located in the middle of the flume. The exhaust blower takes a small amount of room air from both ends along with any left over ozone gas and exhausts it out of the facility. This assures your personnel are not exposed to any ozone.

Typical products that can benefit from the HYDRO-ROLL system are any products that are presently washed in a flume. The ozonated flume water can be recirculated by incorporating a 35um filter system. The filter system includes automatic backwash and uses about 4 gallons of water to backwash. Following the flume washing it is common to use a final spray wash using fresh ozonated water from the HICON. The final spray wash water can be added to the flume as make-up water where it will be filtered and re ozonated. The final spray washing water will be highly ozonated water from the system HICON .

The unique Pur^otecs flume system can be manufactured to fit into your existing process line or any new process lines. The length, width and water flow determines the treatment time. Treatment times in the flume vary from about two minutes up to five minutes. The flume is manufactured using 316 stainless steel and all the plumbing uses sanitary TriClamp fittings.



TYPICAL HYDRO-ROLL FLUME SYSTEM



SPECIFICATIONS

Type: Rolling water

Volume: 30 to 1000 gallons manufactured to customer specifications

Rolling action: Adjustable by water flow from the side nozzles

Recirculation: 15 to 500 gpm

Treatment time: 1 to 5 minutes adjustable by water flow

Screen: 100 mesh

Filtration: 35 micron with auto backwash

Pump: Sanitary TriClamp 15 to 500 gpm at 45 psi

Size: 1.5, 2, 3, 3.5, 4, 4.5 feet in diameter

Length: 8 to 12 feet

Materials: 316 stainless steel

Ozone level: 1 to 5 ppm automatic setpoint controlled

Make-up water: 45 psi

Off Gas Blower: 30 cfm vented to outside or ozone destruct

Power: 208 V 3 phase L1, L2, L3, N and Grd

Generator: 20 amps

HICON O3: 10 to 30 amps based on system volume for the HICON pump

Flume Pump: 15 to 30 amps based on the recirculation rate

