PUROTECS

PurOtreat

PUROTREAT™
SAFER HEALTHY LONGER-LASTING
ECO-FRIENDLY OZONE TREATED

KILLS MOLDS

KILLS BACTERIA

DRY CONTINUOUS PROCESS

FDA / USDA ORGANIC APPROVED

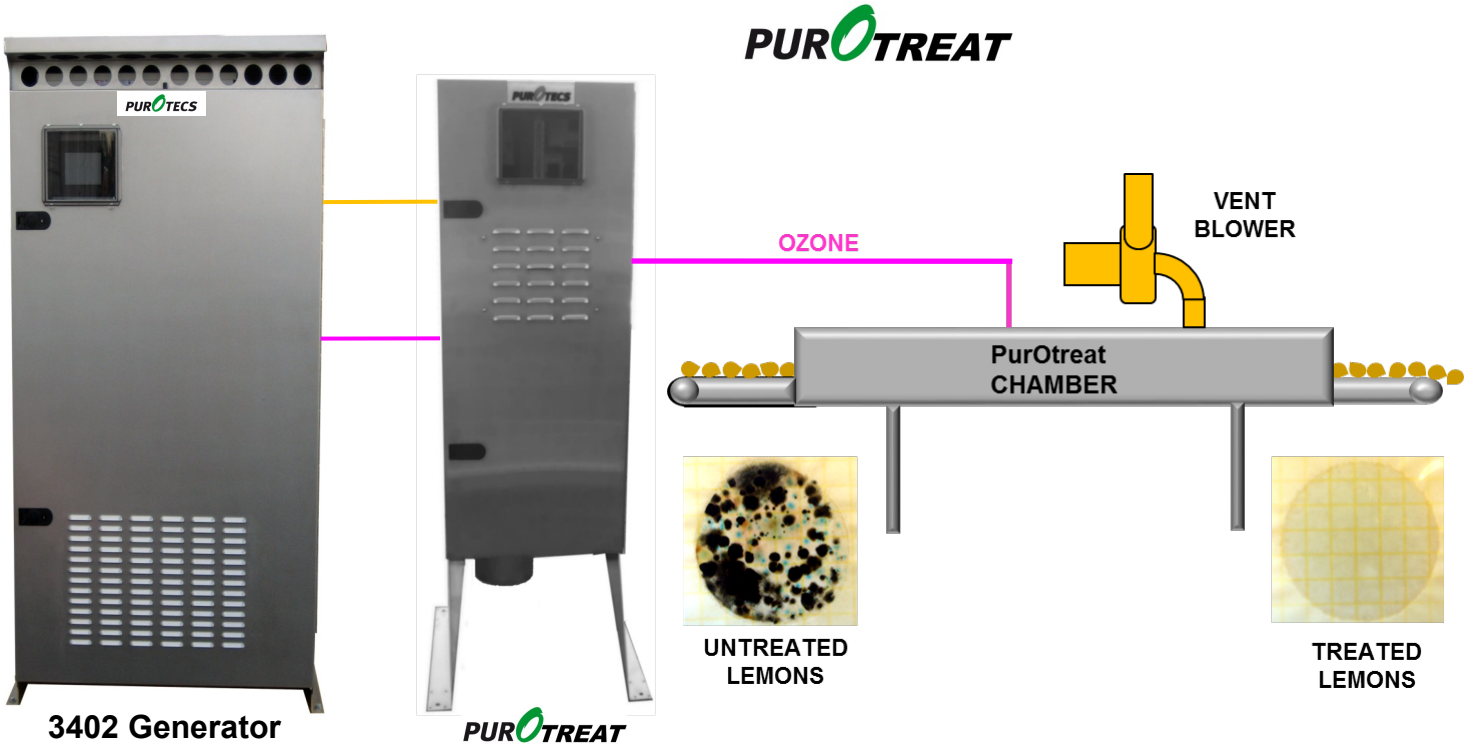
SANITIZE PNEUMATIC CONVEYORS

PurOtecs has developed a unique system using a Purotecs ozone generator, the PurOtreat process and a conveying system to move product through the PurOtreat chamber. In the chamber product is exposed to high humidity ozone gas for approximately 30 to 120 seconds to treat mold spores and bacteria. Purotecs has applied for patents on this innovative PurOtreat system. Ozone is FDA approved as a food additive and approved organic by the USDA.

This PurOtreat system has proven successful in reducing molds and bacteria on blueberries, strawberries, oranges, lemons, grapes, melons and a variety of other fresh products. The result is reduced shrinkage and extended shelf life.

The PurOtreat system is sized to meet your production. Ozone from the Purotecs generator is connected to the PurOtreat where the ozone and the dilution air pass through humidification chamber. As part of the system an ozone monitor continuously provides feedback to the ozone generator for automatic dosage control, a key requirement for exact treatment. Products are treated as soon as possible after harvest and then placed in ozone treated containers or ozone treated cold storage facilities.

The PurOtreat system has proven effective for treating dry powders, seeds and flakes for the reduction of molds and bacteria. The PurOtreat system is also effective as a sanitizer for dry processing equipment.



The PurOtreat system incorporates a standard PurOtecs 3400 ozone generator(s), the PurOtreat system and a treatment chamber designed to meet the production quantity and sized for the product being treated. The ozone monitor continuously displays the ozone treatment level and provides a signal to the ozone generator for automatic dosage control. The generator and the PurOtreat cabinets can be located up to 200 feet away from the treatment chamber. For best results the ozone generator and PurOtreat should be located in a clean environment to assure maximum long term reliability. Excess ozone is vented to the outside or to an ozone destruct using the vent blower.

The PurOtreat is also used to sanitize process equipment such as pneumatic conveyors by connecting the output of the purOtreat to one end of the pneumatic conveyor and an ozone destruct to the discharge end. When the ozone gas coming out of the discharge end of the treated system reaches 80% of the inlet ozone level the system is sterile.

SPECIFICATIONS

Treatment: Ozone gas
Ozone source: 3400 Purotecs ozone generator(s)
Ozone: 200 to 5,000 ppm 4 - 16 pounds/day
Ozone Control: Monitor feedback to the 3400 ozone generator for setpoint control
Ozone Monitor: UV - 0 to 1.0 % (0 to 10,000 ppm)
Ozone Connection: 3/8” Stainless tube from generator to PurOtreat
3/4” pipe from Purotreat to process conveyor
Water: 1/4” tube .05 gpm
Treatment time: 30 to 120 seconds
Belt width: 2 to 6 feet
Belt length; 4 to 20 feet
Belt Speed: Variable
Vent: Forced air blower to outside or ozone destruct
Power: Purotreat: 115VAC 15 Amps
Power: Generator: 208 V 3 Phase 20 Amps L1, L2, L3, Neu and Gr

Patented 10,609,941 B2

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