



BOTTLED BEVERAGE

Bottlers depend on Purfresh for proven reliability and value

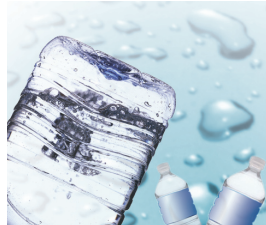
Worldwide bottlers require unprecedented reliability for their critical bottling operations. In recent years, with consumer health issues and increased population, the demand for bottled water has increased dramatically. Bottlers need to deliver a product that is free of bacteria, and need to have the ability to extend shelf life and improve product quality. Ozone is the safest and most natural purification and disinfection agent for water products.

SCIENCE-BASED SOLUTION

Purfresh's science-based ozone technology provides bottlers with a complete integrated solution. The solution efficiently dissolves and applies ozone into treated water, to the bottle, and to the bottle cap. Purfresh's specialized contacting equipment allows for the highest concentrations of dissolved ozone in the industry. In addition, microcontrollers and monitors are available for maintaining precise ozone concentrations. Components are standardized and modular for minimizing maintenance costs. Purfresh equipment is easy to install, operate, and maintain, and integrates easily into existing equipment and processes. Multiple applications can be supported from one system.

OPTIMUM SAFETY AND EFFICACY

Ozone is the safest and most natural purification and disinfection agent for water. In the bottled water market, maintaining an optimum level of ozone is critical. If the ozone level is too high, plastic bottles may develop an aftertaste. If the level is too low, bacteria spores hidden in the water, inside the bottle's plastic walls, or inside the closure device could recover and easily contaminate the entire product. Purfresh's ozone controller carefully measures and continuously controls the dissolved ozone concentration, ensuring effective water treatment while protecting people.



Water charged with ozone is also suitable for rinsing and cleaning bottles and disinfecting production equipment. This process reduces the potential for bacteria growth in unchlorinated water found within the distribution system.

NEXT GENERATION PROCESS CONTROL

Purfresh becomes a true partner in operational process control and monitoring by providing Intellipur subscription informatics services. Informatics is the science of information and Purfresh provides a next generation service that includes strict operational control, remote diagnostic monitoring, reporting, and automated alarming. In addition, you can interface directly with a local SCADA (Supervisory Control and Data Acquisition) system.

KEY FACTS

Treat and disinfect the bottle, the head space of the bottle, and the bottle cap

Improve taste and eliminate odors using ozone to oxidize microorganisms and organics

Recognized by the FDA for Good Manufacturing Practices using ozone for bottled water purification

Adhere to International Bottled Water Association (IBWA) recommendation of ozone residuals for bottled water

Simplify the cleaning and extend the life of process line equipment

Remote diagnostics, troubleshooting and alarming

Align with consumer demand for lower chemical use and residuals in the environment

"With (patented) dielectric ceramics, the ozone production is more reliable and safer (than the competition)."

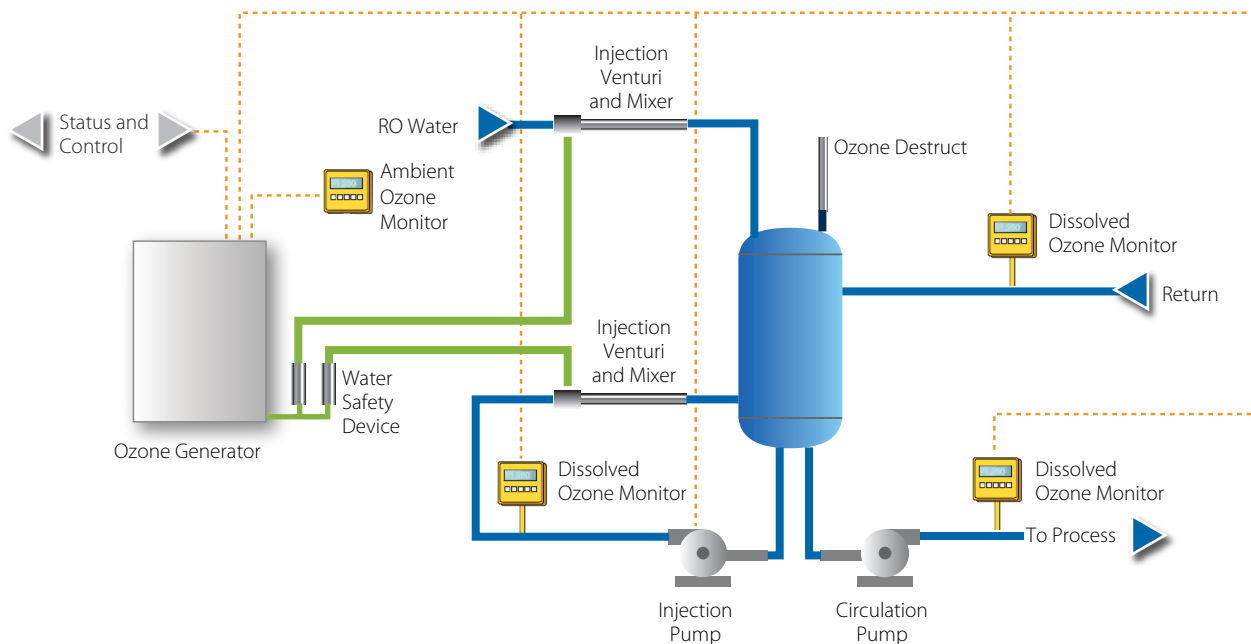
— Arrowhead Spring Water

PURFRESH WATER: BOTTLED BEVERAGE

PURFRESH BENEFITS

	PURFRESH	OTHER SOLUTIONS
SELF-CONTAINED INTEGRATED SYSTEM	Air compression and preparation, ozone contacting, and monitoring components are engineered as a precise package.	Air compression and preparation typically not included. Other components purchased from vendors as needed.
CONTROL SYSTEM	Onboard computer monitors performance and controls ozone production with ORP, DO ₃ , and ambient inputs. Remote diagnostics and troubleshooting from Intellipur Command Center	Typically no automatic control system included. External PLC added when needed. Expensive service calls because no remote diagnostic capability
COOLING SYSTEM	Air cooled systems minimize maintenance problems	Water cooling susceptible to corrosion failures.
EASE OF MAINTENANCE	Modular construction minimizes maintenance and repairs. Worldwide service center network.	Repairs usually require total system replacement and associated downtime or time-consuming troubleshooting to the component level.
EXPANDABILITY	25-300% capacity increases in 30 minutes by adding power and ozone cell modules.	If possible, expansion typically requires duplication of feed-gas, cooling, ozone, and control components.

EXAMPLE SYSTEM



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 Purify, Protect, Preserve.

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