

OZONE DISINFECTION AND SANITIZATION UPGRADE FOR PHARMACEUTICAL FACILITY

RANCHO CUCAMONGA, CA

CUSTOMER

Pharmaceutical companies are in high demand to manufacture and distribute high quality products in a timely and efficient manner so that they can offer them at competitive, yet affordable prices. In this case, one state-of-the-art sterile manufacturer of injectable, intranasal and inhalation products called on Evoqua to replace an aging disinfection system for its pure water supply.



The Factory Acceptance Test (FAT) at Evoqua's facility in Benicia, CA verifies that the system is built and operating in accordance with design specifications.

CHALLENGE

The pharmaceutical facility has a variety of manufacturing and production capabilities supported by microbiology, chemistry and R&D laboratories. Clearly understanding what it will take to achieve their vision as an industry leader, they are vigilant in its investment in new R&D, the expansion of its current injectables and inhalation lines, and making production improvements to its delivery systems.

Evoqua worked from very specific requirements provided to design a powerful, affordable and easy to integrate ozone disinfection system. Ozone technology delivers superior disinfection results with more process uptime, lower maintenance and operational costs, increased reliability, and improved life cycle management for ambient temperature purified-water systems like the one used in this production line.

AT A GLANCE

BENEFITS

- Superior Disinfection Results
- More Process Uptime
- Requires Less Maintenance
- Full Monitoring in Real-time
- Quick and Seamless Integration

PRODUCTS USED

- NGA23 Ozone Generator
- Oxygen Concentrators
- Air Compressors
- Easy-to-use Software and Large Touch Screen
- Precision Auto-dissolved Ozone Control
- Ambient Ozone Detector with Safety Interlock

PROJECT GOALS

- Improve Performance to Meet Current Standards
- Minimize Downtime
- Upgrade to Modern, Efficient Equipment
- Better Monitoring and Controls
- Improve Safety of Employees

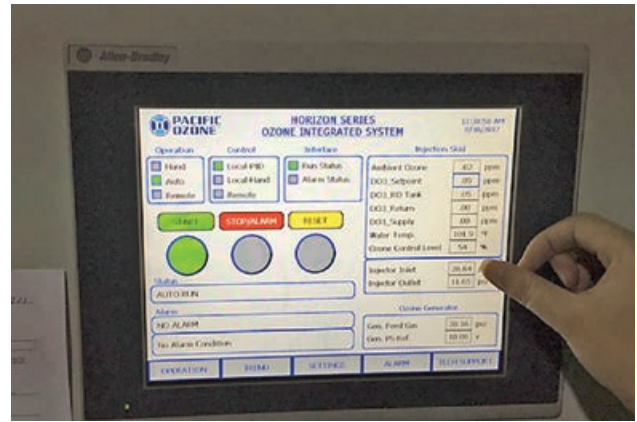
SOLUTION

Engineering, manufacturing and testing were completed in the Benicia, CA facility. With completion of FAT verification only requiring one day, the system was ready for on-site commissioning and start up.

The ambient temperature capability is important to company's production as their facility is located in the warm temperatures of southern California. The packaged ozone disinfection system is designed, tested and qualified precisely for this type of storage tank and loop sanitization process. All critical performance characteristics in the ozone process are measured with advanced software and feedback mechanisms for ease of operation and reliability.



A validation visit is conducted onsite to confirm the system is operating as expected.



Validation excelled on a hot day in Ranch Cucamonga: Ambient temp 113F, water temp 102F and O3 output 54% as promised.

Sanitization and disinfection with ozone has been used for decades in pharmaceutical and other high purity water systems.

The advanced and fully integrated monitoring and verification of all instrumentation and process parameters in real-time provides immediate information on the process and adherence to operating requirements specifications.

The company intends to continue to invest in its people and production facility to ensure that the highest standards in quality pharmaceutical manufacturing and technology are not just met but exceeded.



6160 Egret Court, Benicia, CA 94510
+1 (707) 747-9600 www.evoqua.com

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.