

Boosting Reliability: How a Florida Hospital Solved Wastewater Pump Failures



Tsurumi MYCZ pumps restore reliable, clog-free operation at a hospital's wastewater lift station in Florida.

Hospitals depend on seamless operations, as any system failure—even minor—could impact critical care. At a Florida hospital serving nearly 200 patients and operating day and night, persistent reliability issues in the wastewater lift station raised major concerns.

The hospital's duplex lift station handles both sanitary wastewater and discharge from its laundry operations, creating a challenging environment filled with wipes, rags, and fibrous debris. Over time, these materials led to repeated clogging in the station's existing 10 HP pumps. One pump ultimately failed, while the remaining unit struggled to maintain required performance levels. Frequent maintenance—requiring pumps to be pulled and manually cleaned—became the norm, increasing labor demands and risking operational disruption.

With no downtime window available, the hospital needed

an immediate, dependable solution capable of satisfying a minimum flow rate of 400 gallons per minute (GPM) at 50 feet of head, while also meeting explosion-proof requirements specified for the application.

Custom Pump and Controls evaluated the application and recommended Tsurumi's FM certified 10 HP MYCZ 1000/4/100 chopper pump. Designed specifically for severe wastewater conditions, the MYCZ pump utilizes a robust chopping mechanism to process solids before they can cause blockages. The unit not only met the system requirements but exceeded them, delivering approximately 500 GPM.

The availability factor was equally essential. Tsurumi quickly confirmed in-stock inventory, enabling the replacement pump to be delivered within 4 business days. Installation was completed efficiently using a Flygt guide rail adapter, enabling seamless integration into the existing guide rail system without major modifications.

Boosting Reliability: How a Florida Hospital Solved Wastewater Pump Failures

“Since installing the MYCZ pumps, we’ve eliminated frequent cleaning and ragging, reduced run times, and significantly improved overall station efficiency.”

- Brad Young, Custom Pump and Controls

The benefits were immediate: The new chopper pump eliminated persistent clogging issues, significantly reducing maintenance needs. Since installation, the hospital has not needed to pull the pump for ragging or cleaning. Improved flow capacity also reduced daily run times, increasing overall system efficiency and lowering mechanical strain.

Tsurumi’s FM certified MY Series pumps, engineered for reliable performance in demanding wastewater applications



Encouraged by the performance, the hospital made the decision just weeks later to replace the second pump in the station with another MYCZ pump unit, fully standardizing the system.

This project highlights the importance of selecting the right pump technology for demanding applications. By combining high-performance solids handling, reliable operation, and rapid availability, Tsurumi’s MYCZ chopper pumps provided a long-term solution for a facility where reliability is not just important—it is essential.



Preparing to install a Tsurumi FM-certified MYCZ chopper pump on site

CONTACT

TSURUMI (AMERICA), INC.

1625 Fullerton Ct
Glendale Heights, IL 60139

Yumiko T. Lindgren
Marketing Manager
yumikot@tsurumi-america.com
(630) 547-2245

www.tsurumipump.com

 Follow Tsurumi America on Social Media



ABOUT TSURUMI

Founded in 1979, Tsurumi (America), Inc. is a division of Tsurumi Manufacturing Co., Ltd., a global pump industry innovator since 1924. Headquartered in Glendale Heights, Illinois, the company maintains additional operations in Quebec, Canada; El Paso, Texas; and Salt Lake City, supporting customers across North America. Globally, Tsurumi operates in more than 45 countries, delivering reliable pumping solutions for construction, civil engineering, mining, industrial and municipal wastewater, sewage treatment, flood control, and landscape applications. Tsurumi products are backed by independent, third-party verification and supported by a robust distribution network and one of the largest on-hand inventories in North America.