



Case Study

Wiping Out Problems: Medical offices solve pump failures with SKG series' RAD-AX[®] technology

Overview

FoxRock Properties owns and operates South Shore Medical Center, an 85,000sqft medical facility with 100 examination rooms, 70 medical offices in Norwell, MA. Sanitary waste and wipes are frequently flushed by staff, patients, and visitors and caused major damage to the sump pumps servicing the complex.

Dan Snyder, property manager for FoxRock, explained. "We experienced frequent failures as wipes blocked screens protecting the pumps and wrapped around impellers, clogging volutes, and eventually burning out the pumps' submersible motors. Even with back-up pumps in place, the service interruptions and maintenance costs became unacceptable."

Historically the average pump service life ran less than 1.5 years. Finally, after yet another 460-volt submersible pump failure Snyder decided to source a new solution.

"Given the buildings' populations and types of services provided, we expected we'd see more than our fair share of flushables."

- Dan Snyder, property manager, FoxRock Properties.

PROBLEM

- High flush volumes of wipes and other sanitary waste
- Frequent clogging led to pump failure
- Catch screens required constant manual clean-outs
- Short lifespans with high maintenance costs



Solution

In-depth research yielded that most non-clog pumps on the market would still fail with the properties' high-volume flushed wipe content. They ultimately found Industrial Flow Solutions™ BJM® dual-shredding SKG series, specifically designed high-volume solids-handling. SKG series pumps' patented RAD-AX® technology (Radial+Axial) cuts, shreds, and shears solid waste to expedite flow.

A rotating cutter bar with serrated edges that trap and shred solids against sharp grooves in the radial cutting ring creates the radial shredding. As materials are processed through the radial shredding mechanism, the axial cutting components shear any remaining solids with multiple cutting bars. Combined with a tungsten carbide-tipped impeller that expedites flow and hydraulic performance, SKG series pumps prevent clogs in wastewater that includes up to 10% solids by volume.

Shredding elements are cast in hardened 440C stainless steel for maximum abrasion resistance and service life. Unlike the originally installed pumps, SKG series pumps do not require screens, eliminating the need to stop operations for manual clean-outs. Combined with the long service life and robust shredding technology, SKG series pumps turned out to be the perfect solids-handling solution for FoxRock Properties.

"I am very happy with the SKG series pump. It was installed in July, 2014 and continues to operate without clogging." – Dan Snyder, property manager, FoxRock Properties.



FEATURES

- Patented dual-shredding RAD-AX® (Radial + Axial) technology solids-handling pump designed to cut, shred, shear to expedite flow
- Prevents clogs in wastewater that includes <10% solids (by volume)
- Hardened 440C stainless steel cutting elements
- Tungsten carbide-tipped impeller

APPLICATIONS

- Pharmaceutical & Medical
- Food & Beverage
- Municipal Water & Wastewater

RESULTS

- Screens and clean-outs eliminated
- Zero clogs or pump failures since installation
- Reduced maintenance and repair costs
- Low overall cost of ownership



**INDUSTRIAL
FLOW
SOLUTIONS**



104 John W. Murphy Drive
New Haven, CT 06513



860-631-3618



sales@flowsolutions.com
flowsolutions.com

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