Pumps

Case Study

Pump Station

A major challenge for the reconstruction of the wastewater pumping station.

Saint-Hyacinthe
Quebec

The Challenge

The existing pumping station was at the end of its service life and required complete reconstruction to meet the city's growing needs. A new, larger and more efficient station was essential to ensure effective wastewater management while facilitating maintenance for municipal crews.

The city, already familiar with Gorman-Rupp self-priming pumps, commissioned the engineering firm Consumaj to prepare a technical specification and launch a public tender. The specifications called for the installation of six Gorman-Rupp SuperT model T10A3S-B self-priming pumps, 250 mm (suction) x 250 mm (discharge), or equivalent. These pumps had to meet strict requirements in terms of performance, robustness, and ease of maintenance, including:

- High-efficiency Nema Premium Inverter Duty motors rated at 50HP at 1800 RPM, equipped with a thermistor to monitor excessive heating.
- Steel bases for the pump-motor assembly, with three-belt drive for optimal rotation at 1369 RPM.
- Robust construction with a single-piece grey cast-iron frame, capable of withstanding a maximum pressure of 99 psi.
- Internal neoprene check valves with reinforcements, designed to protect the pump from hydraulic shocks, water hammer and/or excessive pressure. This valve can be removed or installed without disconnecting the piping.
- Semi-open impeller made of ductile iron, designed for the passage of solids up to 6.2 mm.

The LM Solution

As the exclusive distributor of Gorman-Rupp pumps for the municipal market, LM was selected for its recognized expertise and the product specifications in the quote.

- **Technical expertise:** LM worked closely with Consumaj and contractor Nordmec to meet the technical requirements. LM provided technical information, validated the pump specifications, and supported the teams at every stage of the project.
- **On-site support:** LM supervised the start-up of the pumps and made adjustments afterwards. The intervention included checking pressures, alignments, and compliance of the installations with the established criteria (pressure gauges, valves, drainage systems).

Customer Benefits

- **Reliability and continuity:** The new station uses a product that the city is already familiar with, simplifying maintenance and reducing training costs for local teams.
- **Durability and performance:** The pumps supplied meet the highest standards in terms of robustness and performance, ensuring efficient wastewater management for years to come.
- **Local support and expertise:** LM's experienced team offers comprehensive technical assistance, including in-house pump and motor repair.
- **Customized solutions:** LM relies on a strategy of collaboration and innovation, bringing together experts to deliver sustainable solutions tailored to the unique challenges of its municipal customers.

This project demonstrates LM's commitment to providing innovative and sustainable solutions while strengthening the relationship of trust with its municipal partners.

Contact us today to discover how LM can transform your technical challenges into lasting success.

514.336.7867

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