Case study

Delivering Under Pressure: How Innovative Pumping Solutions Enhance Fire System Management

Though the goal is to never have to deploy a fire suppression system, the right approach to fire system management requires reliable and innovative solutions that perform when needed most.

Take J.C. Cannistraro, Boston's largest mechanical construction company. When the business embarked on upgrading the fire suppression system of a luxury apartment building in Cambridge, Massachusetts, they faced a significant challenge.

The Regatta Riverview high-rise apartments, spanning 22 floors, required a portable external system to maintain compliance and ensure occupant safety during the upgrade. The system needed to deliver 404 feet of head at 1,500 gallons per minute (gpm).

J.C. Cannistraro partnered with Xylem for a solution involving a Godwin Dri-Prime HL160M, an extreme high-head and jetting pump. This pump, known for its high discharge pressure, dry running capability, and portability, was ideal for emergency fire backup applications.

The HL160M is often leased with automatic or manual starting/stopping, a mounted control panel, wireless remote access options, and Field Smart Technology (FST). FST serves as an early warning system for site managers, the local fire department, or other emergency contacts in case of an emergency.

Boston's largest mechanical construction company J.C. Cannistraro chose Xylem's Godwin pumping solutions to address the challenges faced when upgrading the fire suppression system of a luxury apartment building in Cambridge, Massachusetts.

Trial by fire

Within a week of being set up, tested, and placed in service, the system faced a real-life emergency. A resident on one of the upper floors attempted to extinguish a minor grease fire on her stove with water, causing the fire to spread rapidly.

Two localized sprinkler heads activated, dropping the system's pressure. The pressure transducer sensed the drop and triggered the HL160M, which helped ensure enough water was delivered to extinguish the fire.

“I received a phone call from J.C. Cannistraro stating that there was a fire on one of the upper floors of the building. As you can imagine, my stomach immediately went into my throat,” Jonathan Carlson, Outside Sales and Project Manager at Xylem, said.

> “It was a key element in putting out the fire and preventing this minor accident from becoming a potential catastrophe.”
>
> Jonathan Carlson, Outside Sales and Project Manager, Xylem

Carlson was put at ease when the pump system did precisely what it needed to do. “It was a key element in putting out the fire and preventing this minor accident from becoming a potential catastrophe,” he added.

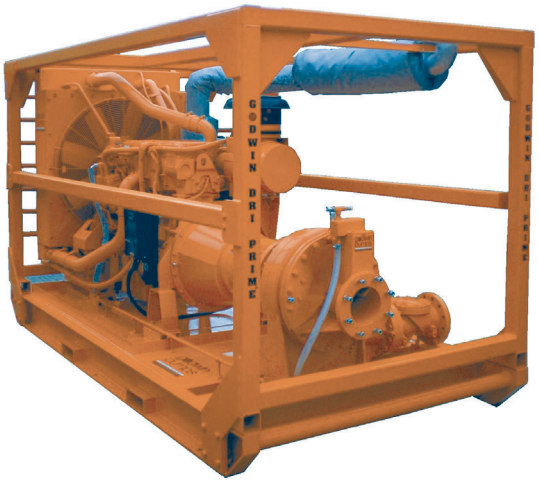
Expertise honed by experience

With decades of experience working with clients like J.C. Cannistraro, our team has developed a comprehensive approach to fire suppression system management that can meet a client’s specific needs with innovative solutions – whether temporary, or permanently installed. These bespoke fire suppression systems are designed to meet the most demanding requirements, ensuring safety and reliability for virtually any structure.

At the core of Xylem’s fire suppression solutions are pump systems like the HL160M – a temporary pumping solution that provides a reliable water supply for fire protection systems during upgrades, repairs, and/or new construction.

Every building is a fresh challenge; our approach is to find the right pump in the correct configuration to meet specific needs. With advanced telemetry through our Field Smart Technology, businesses can also work smarter, not harder, by monitoring and controlling pumps remotely and in real time from the convenience of your smartphone.

As J.C. Cannistraro found, fire suppression systems armed with reliable pumps and augmented with innovative early warning systems can prompt the type of rapid response that can be the difference between a minor incident and a significant disaster.



An extreme high-head and jetting pump, the Godwin Dri-Prime HL160M is known for its high discharge pressure, dry running capability, and portability. This makes it an ideal choice for emergency fire backup applications.

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Let’s Solve Water