CASE STUDY

EEMAX® PROSERIES XTP™

Delivering Hot Water in Food Service Operation

"Working with Eemax on the Integrity Foods project was an excellent experience. The customer is very satisfied with the installed units and delighted with the performance of tankless electric water heating."

MEETING INDUSTRIAL NEEDS

Many of the applications for Eemax® tankless hot water heaters are the sort of industrial processes that you might not often think of on a day-to-day basis but are nonetheless essential to various aspects of modern living. From their ability to provide on-demand hot water without occupying the space of a traditional tank-based heater to their greater energy efficiency and reduction of standby heat loss, as pointed out by the Department of Energy.

THE CHALLENGE

Integrity Foods needed a water heating solution that could mimic Georgia's summertime ground water temperatures throughout the entire year. The water is used for thawing and during the colder seasons the entire process is slowed; negatively impacting operations.

The space available would not allow for a traditional boiler system and a gas-fueled product was not feasible at this location. Integrity Foods needed a way to produce a large volume of water at a controlled and consistent temperature using a different technology.

Overall, a compact and efficient system— able to support high flow rates— were the influencing factors weighed when selecting a product that could support food thawing processes year round.

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THE EEMAX SOLUTION

Eemax designed a system comprised of four ProSeries XTP™ tankless electric water heaters and a custom-built controller. The units now act as one automated water heating solution to provide a continuous supply of hot water.

The new system delivers 30 GPM for 15 hrs./day, drawing 192 kW. Exceeding expectations, ProSeries XTP™ is able to increase output temperatures to 80 °F and delivers 27,000 gals of water to speed defrost times and improve efficiency.

The wall-mounted system does not interfere with foot traffic and does not require roof or wall vent penetrations for emmissions.

Eemax is committed to providing our customers with innovative, efficient water heating solutions.

HOW PRODUCT HELPED

Eemax's group of engineers designed an efficient water heating system utilizing four ProSeries XTP™ tankless electric water heaters that deliver the required temperature and volume outputs while saving critical floor space and eliminating the need for venting dangerous emissions. ProSeries XTP™ patented technology ensures that the tankless electric water heaters are continously assessing the heater condition providing consistent water temperature and volume efficiently.

Eemax
evolving hot water

BENEFITS

Installer | Easy to install and operate with an enhanced troubleshooting interface to reduce time and labor. Inlet and outlet fittings suit common plumbing connections.

User | Intelligent controls and self-diagnostics enable early detection, prevention, and troubleshooting. The control system activates the heater only on-demand and thermostatic technology enables safe operation and temperature control which maximizes energy and water savings.

SPECS

Gpm turn on	0.5 GPM
Max flow	20 GPM
Factory set temp	120°F
Max outlet temp	180°F
Min operating pressure	35 PSI
Max operating pressure	150 PSI
Power	18kW - 54kW
Volts	208V and 480V
Phase	Three
Amps per Phase	Varies by Model
Recommended Wire Size	12 - 3 AWG
Dimensions	18.4” H x 20.5” W x 5.5” D
Fittings	3/4” NPT Fittings
Temperature Stability	± 1°F

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