

A PROPANE CASE STUDY

RELIABLE, HIGH EFFICIENCY TANKLESS WATER HEATER RACK SYSTEMS SAVE THE CLUB APPROXIMATELY \$3,600 IN ENERGY COSTS ANNUALLY.

BACKGROUND

Nestled on 202 pristine acres of Georgia land, Doublegate Country Club opened its doors in the early 1960s. Over the past fifty years, an electric boiler has provided hot water to its kitchen and locker room facilities. With an 11,100-square-foot clubhouse and the third largest commercial kitchen in Albany, Ga., the club consistently consumes large amounts of hot water.

CHALLENGE

In 2011, the club's aging electric boiler had reached the end of its useful life. Because no replacement parts were available, the boiler was at risk of becoming completely inoperable at any time. The electric boiler's operating expenses were costly due to the price of electricity and extra charges from the local utility based on peak power demands. Doublegate's plan was to replace the old, electric boiler with a modern, energy-efficient system that could quickly and reliably respond to the club's hot water needs while cutting energy costs.

SOLUTION

Local propane supplier Modern Gas presented Doublegate with a high-efficiency solution

to achieve both of those goals — a Rinnai R94-SP (199 kBtu/hr) propane-powered tankless water heater system. Because the club already used propane-powered ranges for cooking, its leadership was quite open to the idea of using propane for its hot water needs as well.



The Rinnai system offered several key advantages over other possible replacement systems. The modular nature of tankless rack systems allowed one bank of tankless units to serve the locker rooms' showers and sinks while a second bank of three tankless units supplied hot water to the kitchen. The temperature set points for each of the two banks could be set independently to a level appropriate for the application, saving both water and energy.

COMPANY

Doublegate Country Club Albany, Ga.

CHALLENGE & SOLUTION

With its mid-'60s-era electric boiler reaching the end of its useful life, Doublegate Country Club needed a reliable, cost-efficient replacement that could handle its heavy hot water demand. Local supplier Modern Gas presented the club with an ideal solution — high-efficiency, propane-powered tankless water heaters. Doublegate installed two rack systems with a total of five tankless units that provide abundant hot water to its kitchen and locker rooms.

RESULT

Since their installation, the high-efficiency, propane-powered rack systems have consistently met the club's hot water demands, even during peak flow periods. And, thanks to these new systems, Doublegate is saving approximately \$3,600 in energy costs annually.