

# Nationwide Boiler Inc. - Innovative Leaders

Five Decades of Firsts

**1967:** The mounting of a new 20,000 lb/hr watertube O-type package boiler on a permanent, highway legal trailer signaled the start of an entirely new business on the West Coast.

**1972:** 24,000 lb/hr boiler mounted on a dedicated trailer.

**1980:** Economizers (later branded as EconoStaks) now offered with each rental boiler to increase efficiency and provide an immediate savings in the cost of fuel.

**1981:** First 52,000 lb/hr trailer-mounted boiler.

**1982:** First 40,000 lb/hr, 650 psig high-pressure trailer-mounted boiler.

**1985:** First 60,000 lb/hr trailer-mounted boiler.

**1990:** "Used Package Boiler Condition Inspection System" developed to assure buyers of the worth of used boilers.

**1993:** First 120,000 lb/hr trailer-mounted package boilers, weighing over 123,000 lbs and measuring over 52 ft long. The world's largest mobile boiler.

**1994:** World's largest mobile feedwater system was designed, built, and put into service, with the ability to process 300 gpm.

**1995:** Nationwide Boiler became the only company to convert its entire watertube rental fleet to low NOx levels of 30 ppm.

**1995:** First 9 ppm trailer-mounted boilers.

**1998:** First 650 hp mobile boiler rooms using X-ID tubes for 85% higher capacity.

**1998:** First 75,000 lb/hr high-pressure trailer-mounted boilers added to the fleet in two models - superheated and saturated steam conditions.

**1999:** First demonstration project of an SCR system for ultra-low NOx performance.

**2000:** First 650 hp ultra-low NOx mobile steam plant, signaling Nationwide Boiler's commitment to providing "green" products in the new millenium.

**2001:** New product announcement of the CataStak™ SCR system, proven to reduce NOx emissions to as low as 2½ ppm.

**2004:** First 82,500 lb/hr trailer-mounted boiler designed for 99.9 mmbtu/hr input to facilitate air permitting.

**2007:** Introduction of the E²Stak, providing high efficiency with low emissions in one complete package.

**2008:** Development of a new "smart" control system for NOx reduction on CataStak™ SCR systems.

**2008:** Super boiler system completed, achieving 95% thermal efficiency and NOx emissions of less than 2½ ppm.

**2009:** Nationwide Boiler is the first boiler rental and boiler systems supplier to launch a "Boiler Blog" for industry news and technical information on the world wide web.

**2009:** The CataStak™ SCR system's technology goes beyond package watertube boilers and is applied to firetube boilers, gas turbines, HRSG's, fired heaters, and other demanding applications.

**2011:** Introduction of the Ammonia-Free CataStak™-FT utilizing common diesel exhaust fluid (DEF), a safe liquid urea solution.

**2012:** Boiler sale to a refinery in Africa expands global breadth. To date, Nationwide Boiler has provided equipment to end-users located in six of the seven continents.

**2013:** Completion of the first Ammonia-Free CataStak™ for two package watertube boilers.

**2015:** World's largest high-pressure, 750F superheat, trailer-mounted package watertube boiler. Rated at 110,000 lb/hr, it weighs 220,000 lbs, measures over 97 ft long, and includes a burner management system that is SIL2 rated.

**2016:** DataStak™ emissions and efficiency monitoring system introduced and demonstrated on a rental project. The system provides O₂, CO, and CO² measurements, along with real time boiler efficiency, fuel usage, and carbon footprint calculation. A cost effective alternative to expensive CEMS systems.

**2016:** First 125,000 lb/hr, 750 psig design mobile package boiler. Mounted on a custom 6-axle trailer, it is the new world's largest mobile saturated steam boiler.

**2016:** First 1,000 hp, 290 psig, low NOx mobile boiler room designed, engineered, and fabricated by Nationwide Boiler and Superior Boiler Works. With a heat input of under 40mmbtu, the system can operate without an air permit in the state of Texas.

**2018:** First-ever temporary rental boiler projects utilizing a urea-based CataStak™ SCR system, ideal for customers adverse to the strict handling requirements of ammonia.



**Nationwide**  
Boiler Incorporated