

The E²Stak Solution

Low Emissions & High Efficiency



Simple, Safe & Reliable - The E²Stak Solution

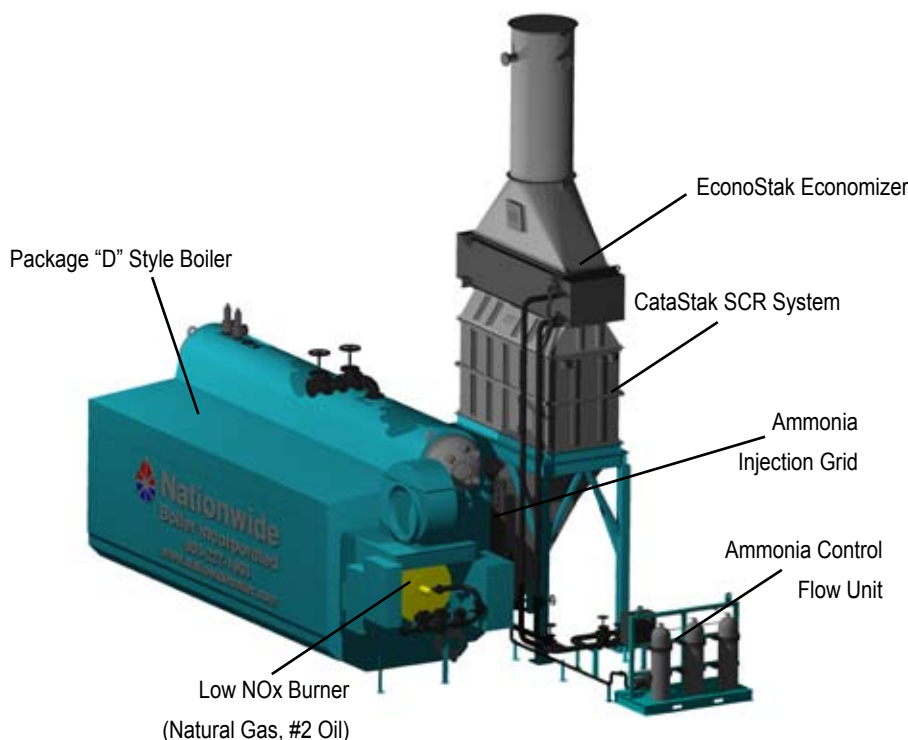
Nationwide supplied a proven E²Stak solution on a 40,000 lb/hr boiler at a California University. The equipment easily met the 5 ppm NOx emission requirements and the boiler's performance was optimized, resulting in an almost 4% efficiency increase and an immediate energy cost savings.

Nationwide Environmental Solutions' E²Stak solution provides both low emissions and high efficiency in one complete system. The E²Stak system utilizes Nationwide's CataStak™ selective catalytic reduction (SCR) system technology and the energy efficiency of EconoStak economizers. The CataStak SCR system, proven to reduce NOx emissions as low as 2.5 ppm, easily meets stringent air quality requirements and is simple to retrofit with no burner or fan changes required. Additionally, installation of the EconoStak economizer can be incorporated into the CataStak SCR system's structural support, increasing the economical benefits of this solution.

The first phase of the E²Stak solution, emissions reductions, is achieved with the CataStak SCR system. This technology uses catalyst and ammonia as a reducing agent to convert NOx to harmless nitrogen and water. The second phase of the system, energy efficiency, is accomplished using EconoStak economizers. In this instance the extended surface finned tube economizer captures valuable waste heat and sends it back into the boiler feedwater or make-up water, saving a considerable amount of fuel and significantly reducing operating costs.

With over 60 CataStak SCR systems installed you can be assured that Nationwide will provide a solution that addresses your specific needs and application. And with over 25 years of experience supplying economizers, you will benefit from instant energy savings, providing you with an immediate return on investment.

E²Stak is the simple, cost effective solution to meet strict emission requirements, while attaining high operating efficiencies and providing possible energy credit incentives or rebates. Contact Nationwide Environmental Solutions today to see how you can reap the benefits of an E²Stak solution or visit our web site at www.catastak.com to obtain more information.



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