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## **The Ammonia-Free CataStak™-FT SCR System TRIM-NOX® Urea Injection System - Firetube Boilers**



The Nationwide Boiler Ammonia-Free CataStak™ SCR System is industry's choice for maximum NOx control using a safe 32.5% liquid urea instead of ammonia. Commonly known as diesel exhaust fluid or DEF, this is the ideal solution for those customers adverse to handling and storing ammonia yet desire the superior NOx reduction and operating performance of a proven SCR system.

The Ammonia-Free CataStak™-FT SCR System utilizes electronic injectors which spray urea into the hot flue gas upstream of the catalyst bed. The urea decomposes to ammonia and mixes with the flue gas before passing over the catalyst bed. The NOx and ammonia is converted to simple nitrogen and water resulting in over 90% NOx removal and less than 10 ppm ammonia slip. The TRIM-NOX urea flow control skid is provided by Combustion Components Associates. It consists of a 17 gallon day tank, variable speed injection pump, control panel with PLC touch screen HMI and patented injectors. The innovative design and features of this pre-packaged injection system assures precise metered urea flow for maximum NOx reduction and minimum ammonia slip. Now customers have a safe alternative to ammonia based SCR systems with dependable results.

Contact Nationwide Boiler today and ask how your firetube boiler can easily and safely meet NOx emissions as low as 2½ ppm with a CataStak™ SCR system, utilizing Combustion Components Associates Inc. patented TRIM-NOX® urea injection system. Call Nationwide Boiler toll free (800) 227-1966 for more information.

### **Standard Features**

- Allen Bradley PLC Based Controller
- 7" Touch Screen Display Panel
- Controls for Two Injectors
- 17 Gallon Day Tank
- Variable Speed Injection Pump
- Auto Refill and Level Sensor
- Flow Meters
- Utilizes Safe Diesel Exhaust Fluid or DEF (32.5% urea solution)



*The ammonia-free CataStak™-FT utilizes the Combustion Components Associates Inc. patented TRIM-NOX® urea injection system (pictured at top). This safe, low NOx SCR solution provides > 90% NOx reduction and eliminates the need for boiler operators to store or handle ammonia. Pictured above (left): TRIM-NOX® urea injection system installed for an 800 hp gas-fired boiler. Pictured at right: Components Associates Inc. patented urea injector.*

42400 Christy Street / Fremont, CA 94538 / (510) 490-7100 / [www.nationwideboiler.com](http://www.nationwideboiler.com) / [info@nationwideboiler.com](mailto:info@nationwideboiler.com)

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