

OFFERED BY:



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## ServoTech De-NOx Systems

### 1- SCR, Selective Catalytic Reduction ,cold and hot exhaust gas

#### ServoTech NOxRedux™ SCR System

ServoTech SCR Systems (NOxRedux™) reduces NOx levels from stack and exhaust by 98%. NOxRedux™-urea and NOxRedux™-NH3 are the most effective systems for stack and exhaust NOx reduction for applications in chemical plants, power plants, gen-sets, locomotive, marine engines, food and beverage industries, ovens and boilers fueled with liquid/ gaseous/Coal.

NOxRedux SCR system is the most effective NOx reduction technology for clean coal power plants and refineries where the reduction is about 3 folds of SCNR systems that commonly used.

#### NOxRedux Models:

- 1- NOxRedux- UREA (reductant agent: UREA)
- 2- NOxRedux- AQNH3 (reductant agent: AQUEOUS Ammonia)
- 3- NOxRedux-NH3 (reductant agent: Anhydrous Ammonia)

#### NOxRedux Technology:

- Maximum NOx reduction efficiency (>95%)
- Easy access to catalyst for periodic service
- Virtually no slip of ammonia to atmosphere
- Reliable reductant dosing injection system based on a closed loop strategy ensuring the minimum reductant usage
- Lower investment and operating cost
- Ensures below maximum allowable pressure drop

#### NOxRedux Package Systems Include:

- SCR Catalyst components and housing(SCR and Ammonia Slip Catalyst, ASC)
- Reductant dosing unit and nozzle (urea, NH3)
- Electronic Control Unit , ECU, for total system
- Sensors (NOx, Temperature, Back Pressure)
- Wiring Harness
- OBD System
- Optional Reductant Tank (UREA, Aqueous Ammonia, Anhydrous Ammonia)
- Training at ServoTech site (Field Installation is offered)
- Optional Remote Monitoring, Diagnostics, and Troubleshooting
- Optional Regulatory Reporting
- Operating Manuals
- Optional Set up / Startup of the System



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**De-NOx SCR  
NOxRedux**

T-gas: 20~400 C  
<5 PPM SO2  
<99% PM

~ 95% NOx Reduction

Reaction  
 $4NO + 4NH_3 + O_2 \rightarrow 4N_2 + 6H_2O$   
 $2NO_2 + 4NH_3 + O_2 \rightarrow 3N_2 + 6H_2O$



## 2- Selective Non-catalytic Reduction (SNCR)

Ammonia is injected into the flue gas (high Temperature) via chemical reactions reducing NOx up to 40%.

~40% Less Nox

30 to 50 % NOx Reduction

NH3 Urea

Flue Gas T: 800~ 1000 C

**De-NOx  
SNCR**

