The Indeck Selective Catalytic Reduction (I-SCR™) anhydrous system uses a selective catalytic reduction process that converts nitrogen oxide (NOx) in the combustion flue gas stream into harmless nitrogen (N2) and water (H2O) without forming secondary pollutants. The I-SCR system is a product line within the Indeck Clean Air Technologies product offering. It is designed for safe and reliable NOx reduction that incorporates low cost operation and maximum stand-alone operation with minimum operator intervention.

Utilizing the latest flow modeling along with fluid, thermal and structural computational analyses our engineers have successfully combined all critical components into the I-SCR system to enable a safe startup, control, and shutdown.

I-SCR systems are designed to connect with Indeck’s mobile rental boilers. Each Indeck system meets NOx emissions requirements as mandated by the United States Environmental Protection Agency. Major components include:

**REACTOR HOUSING:**
- Stainless Steel Reactor Housing
- Catalyst Modules
- Inlet / Outlet Transitions

**AMMONIA INJECTION GRID:**
- Ammonia Distribution Header
- Valves and Injection Lances
- Inlet / Outlet Flue Transitions

**AMMONIA FLOW CONTROL UNIT:**
- Skid-Mounted Package
- Redundant Dilution Air Blowers
- HMI with PLC Controller
- Associated Controls and Instrumentation
- Ammonia Header with Mass Flow Control Valve
- 8 Bottle Anhydrous Ammonia Bottle Storage Rack
- Automatic Ammonia Bottle Switch-Over with Alarm

**FEATURES AND BENEFITS:**
- Stand Alone Operations
- Minimum Operator Intervention
- NEMA 4 Electrical Enclosures
- 316 Stainless Steel Construction
- ANSI & ASTM Standards
- Weatherproofed
- PLC Controller