

I-SCR™ The System for 9 PPM NOx Requirements

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