



Noise & Emission Control

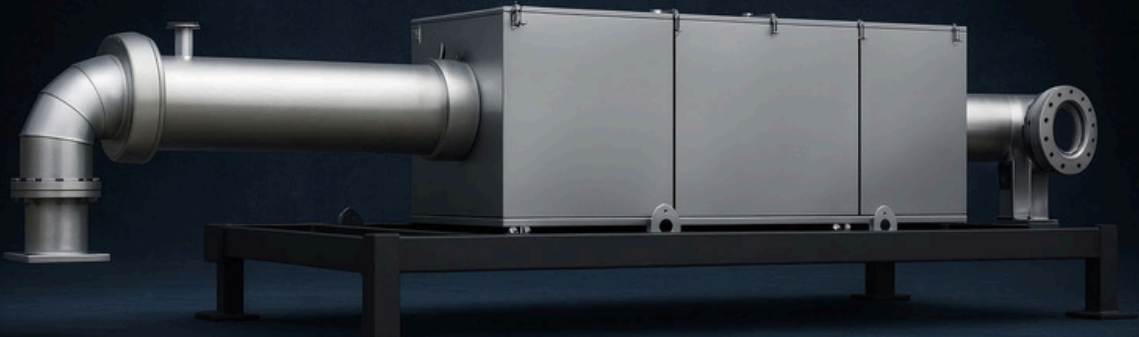


# AIRLESS SCR EMISSION SYSTEMS



Tier 4 Final Compliance for Diesel, Bi-fuel,  
and Lean-Burn Applications



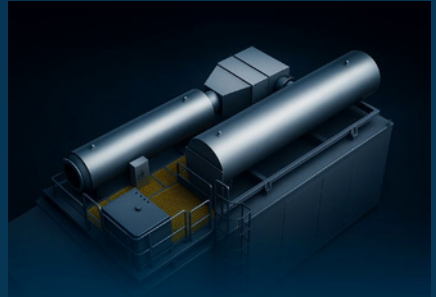


Airless SCR Cubes & Modular Systems Delivering Tier 4 Final emissions compliance without the need for compressed air. The Airless SCR technology that simplifies the urea injection process by reducing system components, resulting in lower total cost of ownership:

t4Box: Ultra-compact footprint with optional integration of DOC,DPF and Silencer

Modular: Remarkable noise attenuation of up to 65dBA at 1 meter

With proven capability to achieve up to 98% NOx reduction, Airless SCR ensures maximum efficiency and compliance while minimizing complexity.



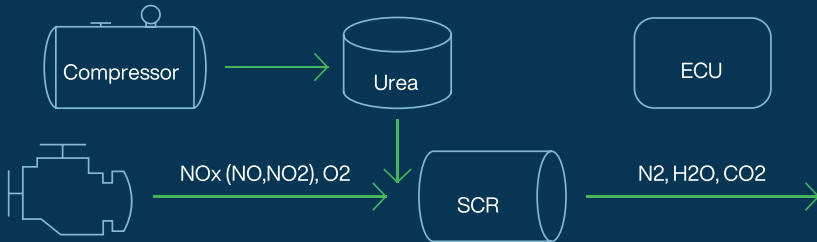
## Key Benefits

- ✓ No compressed air required → fewer components, simpler maintenance.
- ✓ Consistent NOx reduction performance up to 98%.
- ✓ Lower total system cost over operational lifecycle.
- ✓ Simplified controls for easier integration with engine systems.
- ✓ Designed for OEM and retrofit installations.

# SCR Principle of Operation

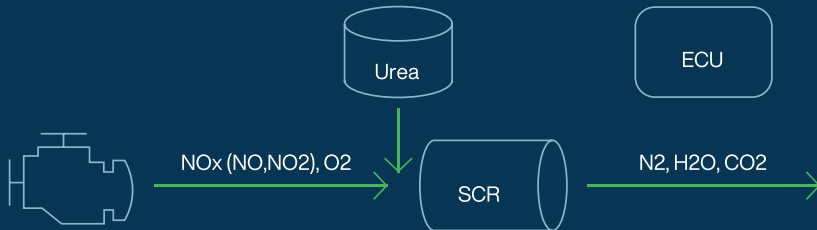
Urea ( $\text{NH}_3$ ) + Harmful  $\text{NO}_x \rightarrow$  **Non-Harmful**  $\text{N}_2$  (Nitrogen) +  $\text{H}_2\text{O}$  (Water Vapor)

Products in the market: Conventional Air-Assisted SCR  
Urea and Compressed Air injected pre-SCR



Higher Total Cost of Ownership  
More Complicated Control Algorithm

Next Generation of Emissions Control: Airless SCR  
Urea is **directly** injected pre-SCR



Lower Total Cost of Ownership  
Simpler Control Algorithm

System  
Configurations  
Available

Tier 4 Box design (compact integrated layout)

Tier 4 modular system

Frame-mounted and roof-mounted assemblies

Custom enclosure integration

# Industries Served

NO<sub>x</sub>, CO, PM, HC, VOC <100 tpy for

Power Generation

Oil & Gas

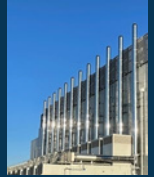
Mining

Industrial Facilities

Data Centers

Utilities

Marine



# Our Process

Engine  
Specs



Site  
Layout



System  
Engineering



Delivery &  
Support

Want to review a design for your application?  
Contact our team to begin the specification process.

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