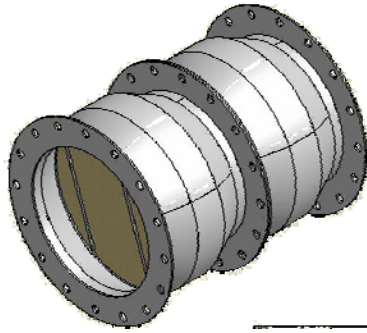


# Clean Emissions 2 Stage Catalyst for NOx

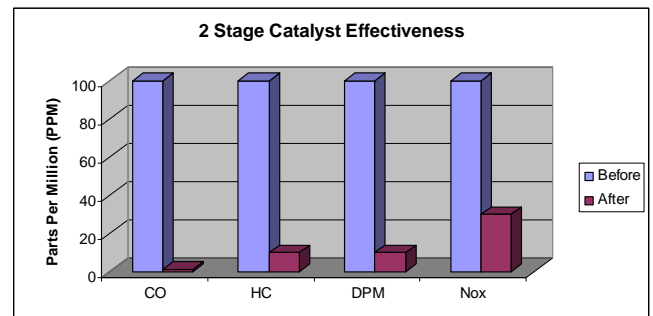


## Catalyst Housing Composition

- Stainless Steel Foil (Substrate Cores)
- Stainless Steel Grade 304 (Housing)
- Catalyst CPSI = 140 (oxidation) 320 (reduction)
- Minimal Backpressure ( < 3.9" H<sub>2</sub>O – oxidation & < 1.4" H<sub>2</sub>O – reduction)

## Catalyst Effectiveness

- CO (Carbon Monoxide) up to 99%
- HC (Hydrocarbons) up to 90%
- Acrolein up to 90%
- DPM (Diesel Particulate Matter) up to 90%
- NOx (Oxides of Nitrogen) up to 70%\*



\* Oxygen content in exhaust stream has direct effect on efficiency of NOx conversion

## Lifespan of Catalyst

- 3 to 5 years (8,000 to 12,000 hours) non-road mobile applications
- 15 years for standby stationary applications (maximum 500 hours annually)
- 5 years for prime stationary applications (maximum 1500 hours annually)

## Maintenance

- Designed to be maintenance free when installed on a regularly maintained engine.
- If maintenance is required simply unbolt catalyst and blow out in opposite direction of exhaust flow with high pressure air or water.

## Operating Conditions for Successful Catalyst Use

- Exhaust Temperature must be at least 250° C (482° F) and not exceed 750° C (1382° F). Best reduction results are experienced when exhaust temperatures are between 350° C (662° F) and 600° C (1112° F).



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