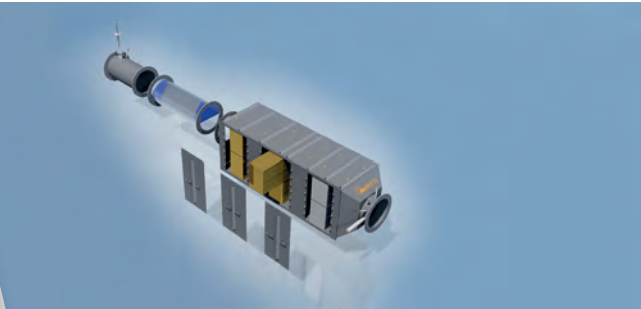


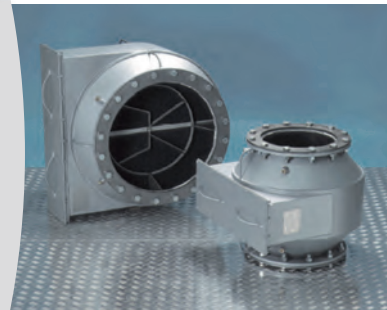
Miretti Exhaust Cleaning Solutions After Treatment Eco Devices

- 95% NOx
nitrogen
oxides

- 98% CO
carbon
monoxide



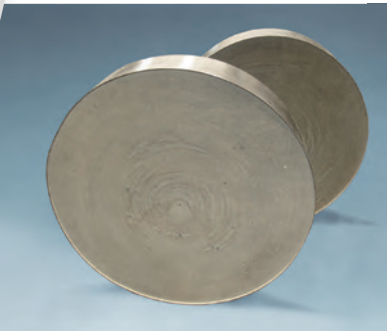
**DeNOx SCR
Stage V Solutions**



Oxy & 3 Way Catalysts

- 70% HC
hydrocarbons

- 99% particulate
and PM10



Oxy "CO" Special Substrates for Biogas

**Anti-Pollution and Anti-Particulate
Ecological Kit for Off Road Vehicles**

**for over 50 years
Environment Protection
Technology**

Miretti DeNOx SCR Systems

SCR DeNOx is designed for reducing Nitrogen oxides (NOx) in exhaust gas through conversion in Nitrogen (N_2) and water (H_2O).

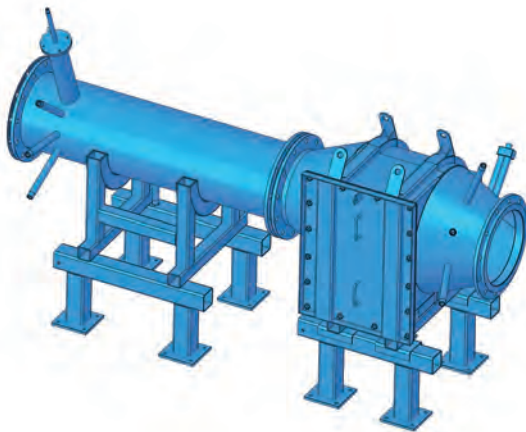
This process is named Selective Catalytic Reaction (SCR).

The reaction needs ammonia (NH_3) as a reducing agent, a temperature high enough and a catalytic brick wall.

ADVANTAGES:

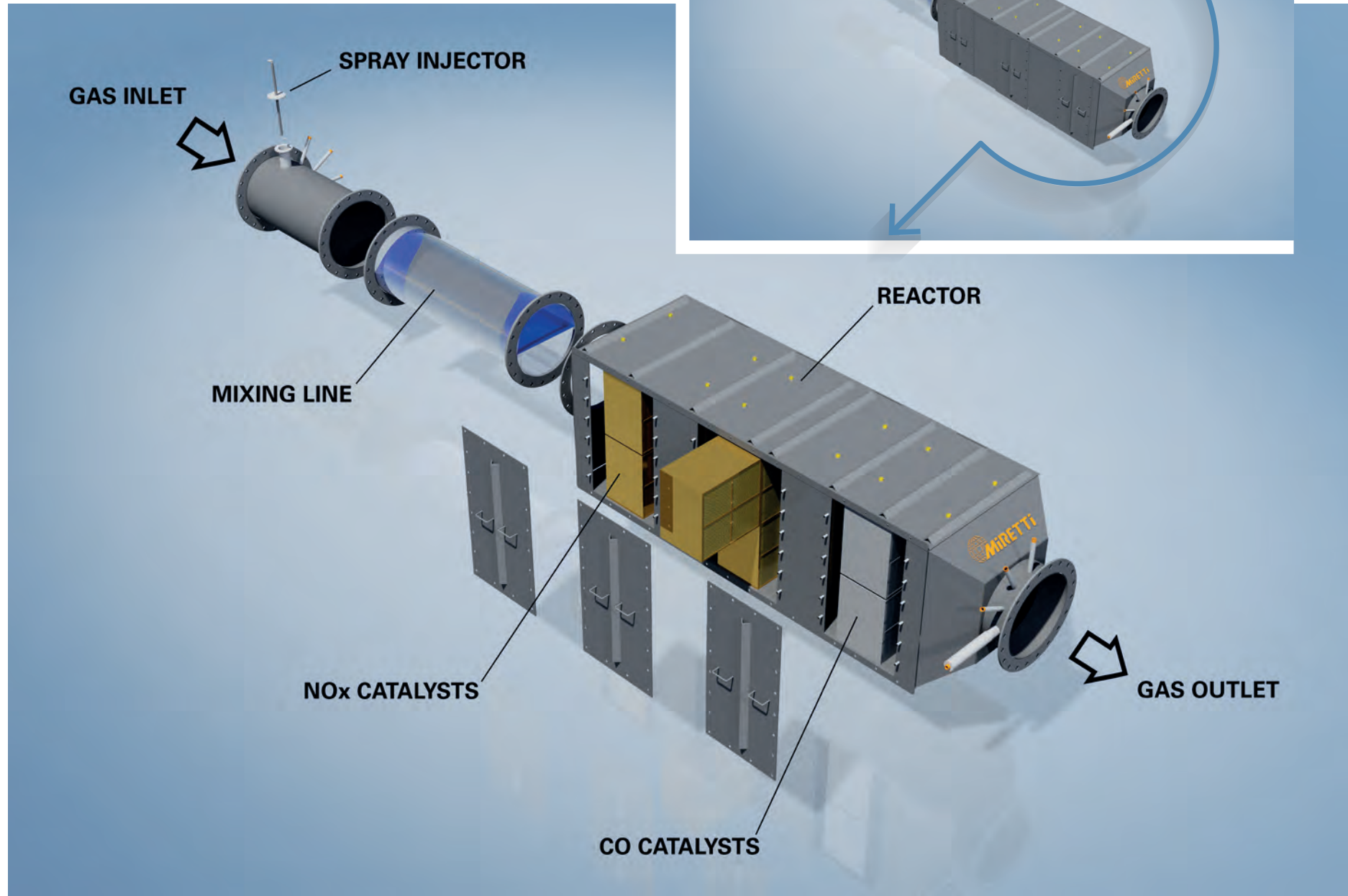
- 95% performance
- Highly efficient
- Low operating costs

SCR DeNOx standard and 100% customized designed to remove Nitrogen Oxides (NOx)

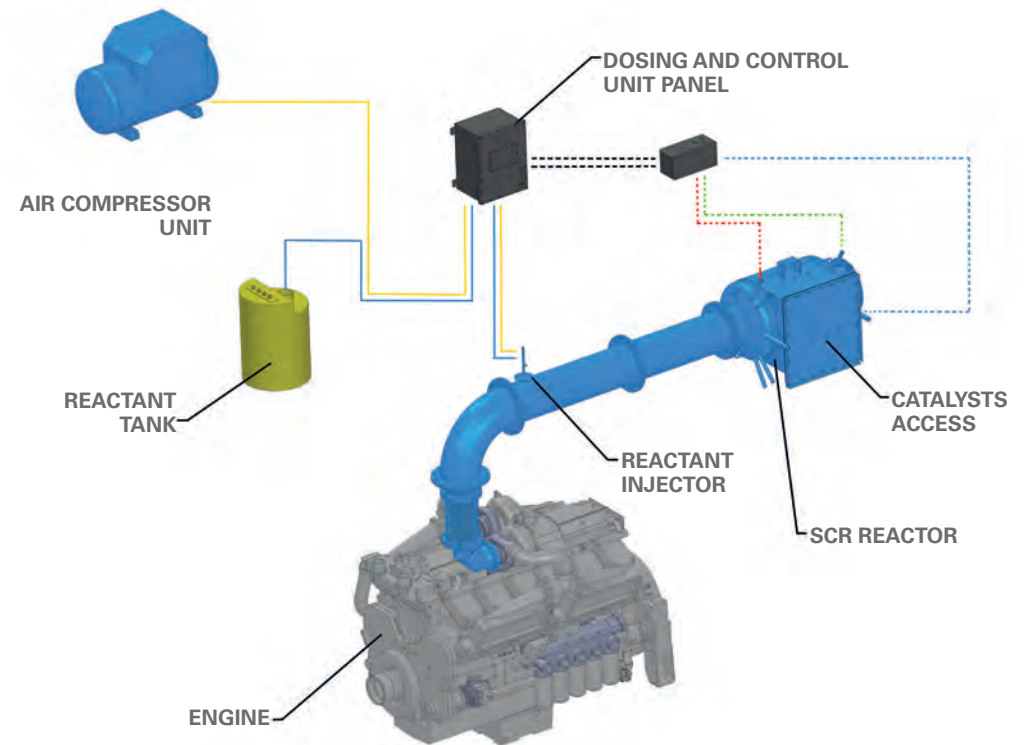
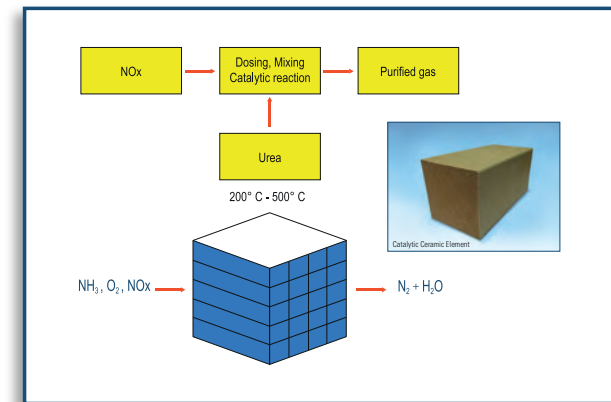
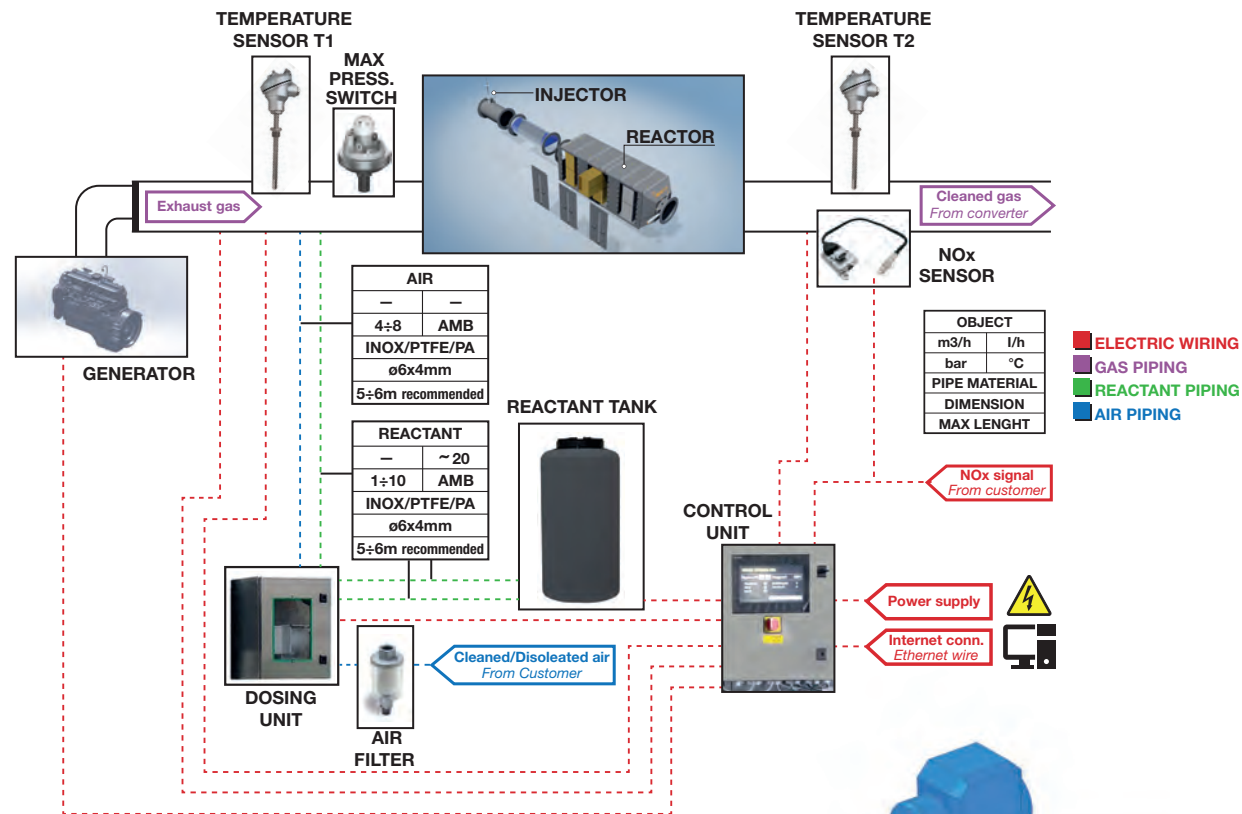


Selective Catalytic Reduction (SCR) - DeNO_x Systems

- Dedicated Solutions
- Compact Design
- Metallic or Ceramic Elements
- Very Low Backpressure
- Stainless Steel Material
- PLC Controlled
- Remote Control



Miretti's Flowsheet SCR DeNOx project



Research & Development



Quality & Reliability



No intervention can be defined as a standard project.

Miretti's Technical Department guarantees rapid and effective feedback throughout all the phases of the project from sizing/features to commissioning, in order to supply a 100% efficient and reliable service.

We can provide SCR DeNOx Systems in Italy and globally thanks to our production facilities around the world.

Miretti's internal Warehouse and After-Sales Service ensure continuous support after completion of the project.

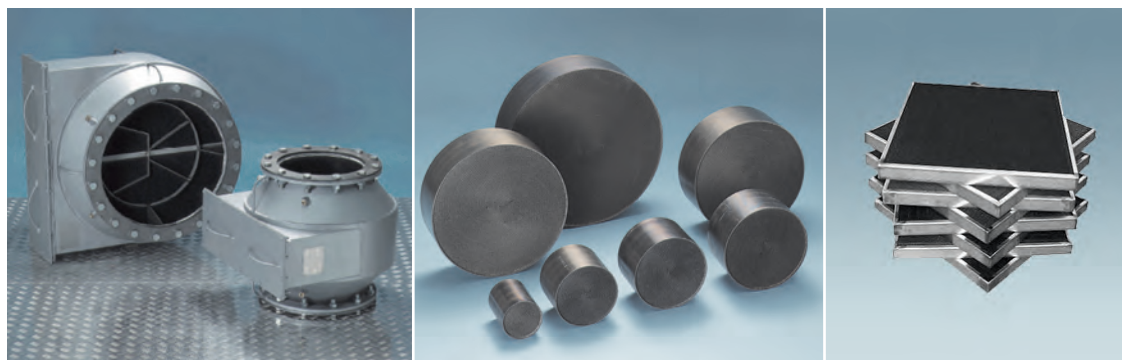
OXY Metallic Catalytic Converters for heavy and medium power (400 kw-4300 kw)



Oxydative catalytic converters purify exhaust fumes from natural gas engines (lean and rich burn) as well as diesel engines.

Miretti can supply a wide range of dimensions to fit different applications and meet customer specifications and can be provided with or without flanges or with "Quick Lid" for a rapid inspection and maintenance.

Qualified Technicians are available to help Customers both in the initial phase of design as well as during the assembly phase and operational functioning. Emissions Measurement Service is available.



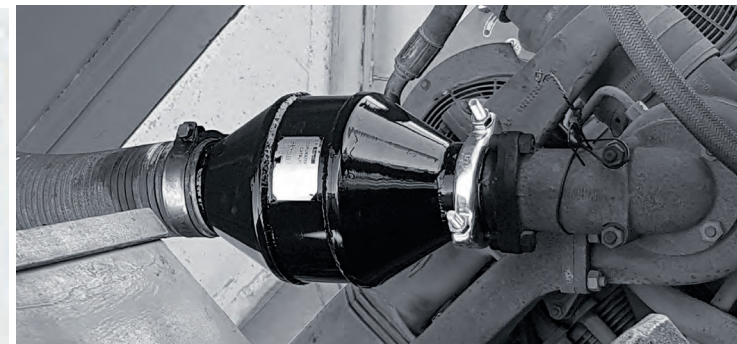
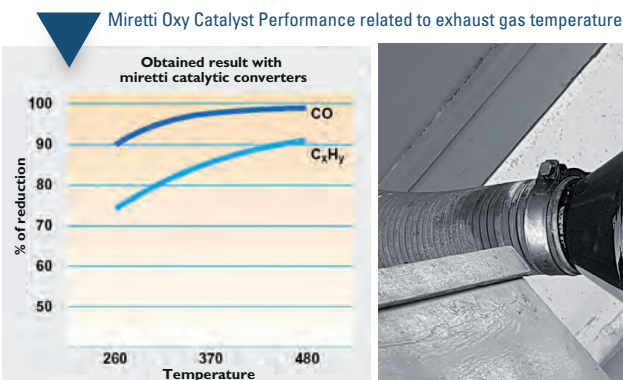
ADVANTAGES:

- High thermal conductivity of the substrate
- Low backpressure
- Excellent conversion efficiency
- Reliability and durability
- A wide variety of sizes
- Very rapid delivery times

OXY Metallic Catalytic Converters for light power (2 kw – 400 kw)

Standard products for power ranges from 2 kW to 400 kW.

Possibility to customize the product for natural gas, gasoline or diesel engines, forklifts, engines for mining, machinery for industrial and civil construction, stationary engines for power generation (cogeneration and trigeneration).



Anti-Pollution and Anti-Particulate Ecological Kits

Reduction of CO, HC, NO_x, Particulate

applicable to engines from very small
to very high power outputs



Innovative Solution for Off Road Vehicles. These kits combine Oxidation Catalyst with an Accelerator in an innovative way, can be fitted both on off road machines and on Atex explosion proof vehicles working in hazardous areas.

Miretti Ecological Anti-Particulate Kit is a quick and economically sustainable solution to allow Euro 1; 2; 3; 4 machines to continue working in compliance with Stage 3 A emission requirements.

This device maximizes combustion, optimizes fuel consumption and reduces emissions.



CO	up to 90%	reductions
HC	up to 90%	
NO_x	up to 20%	
PM10	up to 70%	
CO₂	up to 10%	
NO₂	up to 35%	
Opacity	up to 90%	

Oxy "CO" Special Substrates for Biogas

Oxidation Catalyst Substrates with Special Coating for Biogas Application.

They assure very low back pressure, increased durability and a quick maintenance process.



Substrates with different precious metals coatings



Stage V Systems for Engine with Electrical Heater

The Stage V emission system refers to the latest European Union regulations for reducing the environmental impact of Non-Road Mobile Machinery (NRMM), such as construction equipment, agricultural vehicles, industrial drilling rigs, compressors, non-road trucks, highway excavators, forklifts, road maintenance equipment, ground support equipment in airports, aerial lifts and mobile cranes, generator set engines, railroad locomotive engines along with marine engines used for inland waterway vessels.

This system is the most stringent phase of emissions standards to minimize harmful pollutants such as nitrogen oxides (NOx), particulate matter (PM), and hydrocarbons (HC) from diesel engines.

Key Features of the Stage V Emission System:

- Stricter Emission Limits
- Increased Use of Advanced After Treatment Technologies
- Integration of Regeneration Systems
- Better Fuel Efficiency
- Wide Range of Applications
- Tiered Implementation
- Increased Monitoring and Reporting

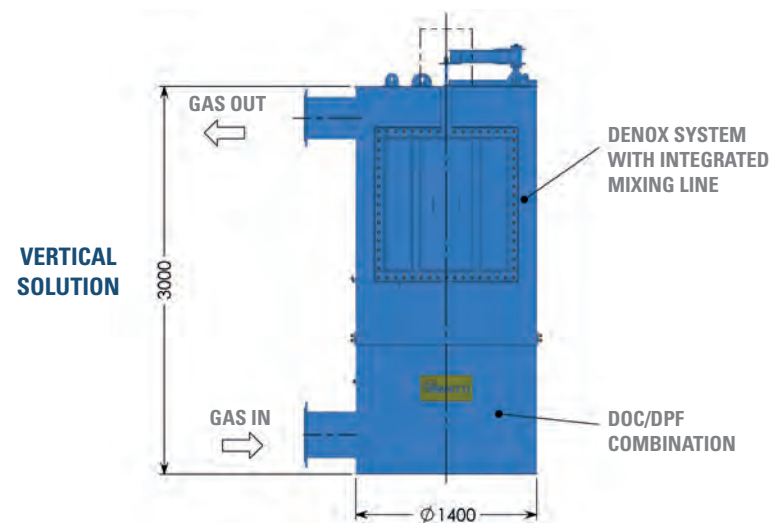
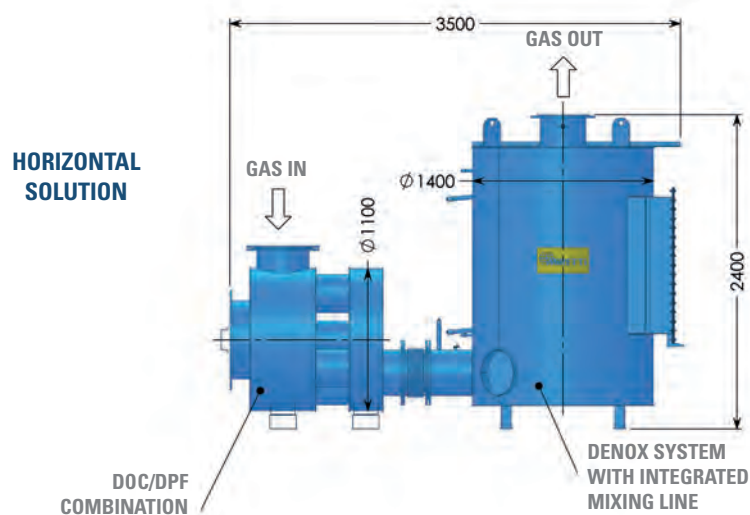
Impact on Industry:

- Environmental Benefits
- Challenges for Manufacturers
- Cost Considerations



Miretti Super Compact Systems All-In-One DOC + DPF + DeNOx

APPLICATION 1 MW DIESEL/GAS ENGINE



since 1973

Miretti Group is leader in Exhaust Cleaning Solutions & Fumes Purification Devices Reducing Exhaust Pollutants

- 95% NOx nitrogen oxides
- 98% CO carbon monoxide
- 70% HC hydrocarbons
- 99% particulate and PM10



Miretti in house
assembled substrates



The high quality know-how
of our specialized engineers

"Safety and Green Environment".

Since 1973 Miretti Group has been on the market as a supplier of **SCR DeNOx Systems and Catalysts** thanks to many years of experience also in the field of Fumes Purification Devices reducing exhaust pollution.

Miretti has been leader in the Explosion Proof Protection of mobile vehicles and industrial equipment and boasts impressive experience in the field.

The company operates all over the world with branches in Italy (head office), USA, China, Singapore, Germany, UK, France, Spain, Hungary, Benelux, Middle East, Algeria, Israel, Australia.

Miretti is ISO 9001, ISO 14001 and ISO 45001 certified and is an approved supplier for the most important world producers.

Constant research focuses on new technologies and innovative solutions. All explosion proof conversions are developed and implemented in agreement with OEM Original Equipment Manufacturers to maintain original safety levels and ergonomics in conformity with local standards and regulations.

Miretti ensures a reliable after-sales service, qualified technicians, quality and fast maintenance.

Miretti Systems

reduce toxic emissions from combustion engines:
DeNOx SCR, Stage V Systems, Catalytic Converters
Purification, Anti-Pollution Ecological Kit.

Miretti Systems

are applicable to the following
engine fuels:

Diesel, Natural Gas, Biogas,
Syngas, Vegetal Oil, Animal Fat.

Miretti Applications:

Power Plants, Cogeneration Plants,
Generators Sets, Industrial,
Off Road Vehicles, Mines, Marine.



Expertise for over 50 years
Quality & Innovation
Competitive Pricing
Certifications & Testing
After Sales Service
Training & Product Education
Research & Development
Reliable Customized Solutions
Global Footprint





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