

## EMx™

The next generation of SCONOX is a multi-pollutant technology in a single system that significantly reduces NO<sub>x</sub>, SO<sub>x</sub>, CO, VOC and PM for air emission requirements. The U.S. EPA declared this technology “the Lowest Achievable Emission Rate” (LAER) for NO<sub>x</sub> abatement, establishing the standard against which all future emission reduction means will be measured. EMx is the most effective Ammonia Free Reduction (AFR) technology available today for gas turbine (GT), reciprocating engines (IC) and industrial/utility boilers (IB).

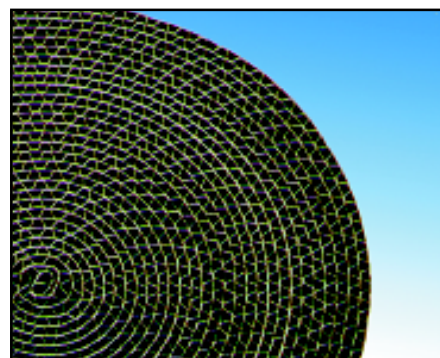
EMx does not utilize ammonia (NH<sub>3</sub>):

- Prevents the fouling of downstream heat transfer surfaces.
- Guaranteed net reduction of particulate matter.
- No ammonia storage, transportation and safety issues.

EMx is a continuous process designed to achieve the required emissions reduction at the maximum NO<sub>x</sub> flowrate:

- Does not require a complex feedback control loop.
- Further reductions at reduced exhaust flow rates to ultra-low levels (near zero).
- Additional catalyst capacity providing future regulatory certainty.

EMx has been in operation in excess of seven years and contains durable, rugged and robust system components. EMx exceeds the strict demands of regulatory standards, for today and future generations and is your ultimate solution for air emission requirements.



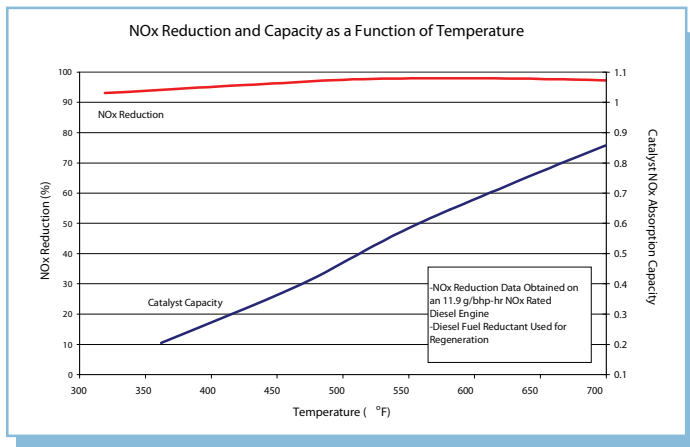
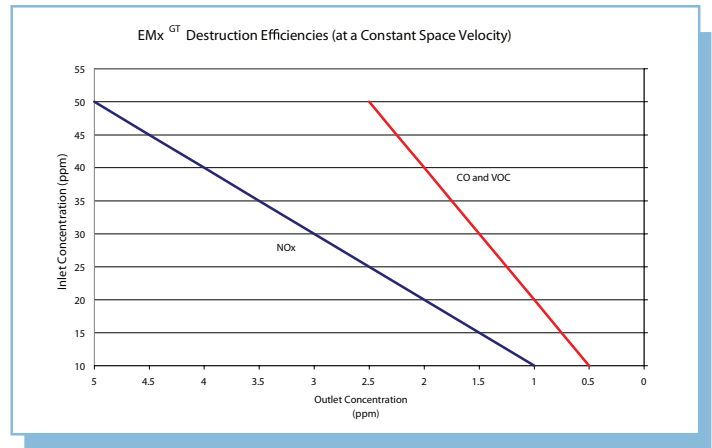
# EMx™ Catalyst: Technical Specifications

Type	Material	Properties	Units	Specifications				
Honeycomb Monolith	Ceramic Modules	Cell Density	cpai	200	300	400		
		Wall Thickness	in.	0.0105	0.0080	0.0070		
		Geometric Surface Area	in <sup>2</sup> /in <sup>3</sup>	48.20	59.70	68.80		
		Maximum Temperature	°F	1,200	1,200	1,200		
		Coefficient of Thermal Expansion	x10 <sup>-6</sup> in/in/°F	3.91	3.91	3.91		
		Range of Dimensions	Square	Height	in.	≤42	≤42	≤42
				Width	in.	≤42	≤42	≤42
				Depth*	in.	1-18	1-18	1-18
			Round	Diameter	in.	≤42	≤42	≤42
Depth*	in.			1-18	1-18	1-18		

Listed numbers are nominal values. EmeraChem manufactures catalyst modules in various shapes and sizes.

\*For greater depths, multiple units may be stacked to obtain desired dimensions.

EMx <sup>GT</sup> Performance Guarantees Available	
NOx	<1.5 ppm
CO	<1.0 ppm
VOC	<1.0 ppm
S	>95%
PM	>30%
NH <sub>3</sub> Slip	0



## Inquiries:

Send us specifications, drawings or gas stream data and we will provide you with a custom-tailored solution to your specific application. EmeraChem also provides analytical and technical services to assist in determining your current emissions and catalytic performance.

EmeraChem is a proven leader in the catalytic control of NOx, SOx, CO, VOCs and PM for manufacturing and industrial applications as well as for the power generation industry.

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