

Gas Engine Emissions Control

No catalytic technology helps you comply with emissions standards better than Johnson Matthey.



Johnson Matthey has a product in its emissions control toolbox to keep you fully compliant with the latest EPA and state limits and the current RICE NESHAP for your stationary engines. We help you control the gamut of dangerous pollutants—particulate matter (PM), the source of visible smoke and odor, nitrogen oxides (NO_x), carbon monoxide (CO), hydrocarbons (HC), non-methane hydrocarbons (NMHCs) and hazardous air pollutants (HAPs).

Our toolbox is filled with high performance, leading-edge products for new or retrofit applications. Johnson Matthey's emission control products are durable, easily accessible for maintenance and are of the highest quality.



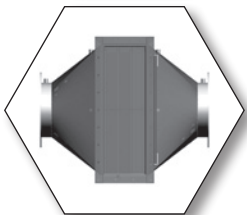
Modulex™ B (Single or Multi-Element Catalytic Converter)

For rich or lean burn engines (250-2000 hp). When equipped with NSCR 3-way catalyst, they can reduce NO_x, CO and HC emissions to comply with the most stringent regulations. If equipped with Oxidation catalyst, they reduce VOC and CO emissions.



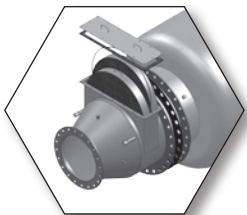
Modulex™ C (Single or Multi-Element Catalytic Converter)

For rich or lean burn engines (50-500 hp). When equipped with NSCR 3-way catalyst, they can reduce NO_x, CO and HC emissions to comply with the most stringent regulations. If equipped with Oxidation catalyst, they reduce VOC and CO emissions.



DualOx® (Pre-Engineered or Custom Catalytic Converter)

For large engines, count on our pre-engineered or custom designed DualOx® converters.



Modulex™ Q (Integrated Converter Silencer)

Looking for quieter running? Choose our Modulex™ Q Integrated Converter Silencer with critical and hospital-grade silencing combined with 3-Way NSCR or 2-Way Oxidation catalyst.

Simply put—If you have a gas engine pollution problem, call us now. We can and will bring you the best solution to efficiently and economically control engine emissions. And keep you operating!



Johnson Matthey
Stationary Emissions Control

Gas Engine Emissions Control

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Emissions Control Products for Stationary Gas Engines

TYPE OF ENGINE	POLLUTANT	JM EMISSIONS CONTROL PRODUCT	PRODUCT DESCRIPTION	PERCENT REDUCTION	RELATIVE COST
Rich Burn	NO _x , CO and HC (3-Way)	Modulex™ B or C with 3-Way Catalyst or Oxidation Catalyst	Modulex™ B or C is a modular converter housing with direct access to catalyst element.	> 95% • NO _x -(0.07 g/hp-hr) • CO-(0.5 g/hp-hr) • HC-(0.5 g/hp-hr)	Low
Rich Burn	NO _x , CO and HC (3-Way) with Silencing	Modulex™ QB or QC	Catalytic converter with integrated silencer.	> 95% • NO _x -(0.07 g/hp-hr) • CO-(0.5 g/hp-hr) • HC-(0.5 g/hp-hr)	Low
Rich Burn	CO and/or HC	Modulex™ B or C or DualOx with Oxidation Catalyst	Modular converter housing with direct access to catalyst element or DualOx, which comprises a large converter housing with metal monolith catalyst blocks and access hatch.	> 95% • CO-(0.5 g/hp-hr) • HC-(0.5 g/hp-hr)	Low
Rich Burn	Formaldehyde (and other HAPs)	Modulex™ B or C or DualOx with Oxidation Catalyst	Modular converter housing with direct access to catalyst element or DualOx, which comprises a large converter housing with metal monolith catalyst blocks and access hatch.	> 80%	Low to Moderate
Lean Burn	NO _x	SCR	The SCR (Selective Catalytic Reduction) catalyst system includes SCR catalyst reactor, urea dosing pumps, urea control system and urea storage tanks.	> 90% NO _x	Moderate to High
Lean Burn	CO	Modulex™ B or C or DualOx with Oxidation Catalyst	Modular converter housing with direct access to catalyst element or DualOx, which comprises a large converter housing with metal monolith catalyst blocks and access hatch.	> 95%	Moderate to High
Lean Burn	HC	Modulex™ B or C or DualOx with Oxidation Catalyst	Modular converter housing with direct access to catalyst element or DualOx, which comprises a large converter housing with metal monolith catalyst blocks and access hatch.	> 80%	Low to Moderate
Lean Burn	Formaldehyde (and other HAPs)	Modulex™ B or C or DualOx with Oxidation Catalyst	Modular converter housing with direct access to catalyst element or DualOx, which comprises a large converter housing with metal monolith catalyst blocks and access hatch.	> 80%	Low to Moderate



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• 900 Forge Avenue, Suite 100, Audubon, PA 19403-2305, (484) 320-2125
• 31 Journey, Suite 250, Aliso Viejo, CA 92656, (949) 297-5200
• www.jmsec.com, info@jmsec.com