



*"..it's the air we breathe and the water we drink..."*





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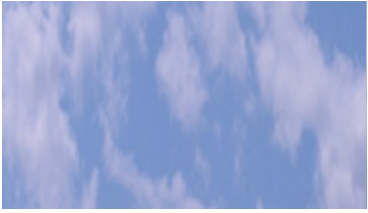
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**EMIT** Technologies, Inc. is an environmental solutions company, offering a full line of catalytic converters and the **EDGE** line of air fuel ratio controllers for compliance with air quality regulations.

**EMIT** Technologies, Inc. packages catalytic converters for engines of all horsepower ranges. Catalyst housings are built to the exact specifications of the application. **EMIT** Technologies, Inc. offers: NSCR catalysts for rich-burn engines, Oxidation catalysts for lean-burn engines, and Diesel Oxidation for mining and tunneling. Custom and industry standard sized catalyst elements, housings, and packages are available to meet the specific application.

**EMIT** Technologies, Inc. is not just an emission control equipment packager. Our intent is to assist operators of internal combustion engines mitigate exhaust emissions. **EMIT** Technologies, Inc. offers a practical cost effective approach to emission control, utilize the best materials and processes available, provide competent technical support, and utilize advancements in technology as they become available and cost effective.







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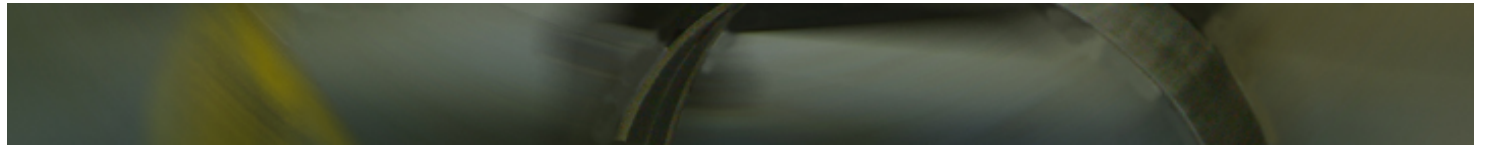
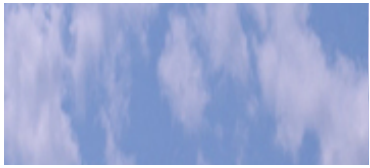
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**EMIT** Technologies, Inc. offers a full line of emissions control equipment. Catalytic converter, combination catalyst/silencer housing, silencer, and air fuel ratio controllers for compliance with air quality regulations, **EMIT** has a solution for your needs.







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Currently, the **EDGE** family of air fuel ratio controllers is operating in a wide range of applications from small gen-set 30 horsepower engines up to Caterpillar G3516 and Waukesha 7044 engines. Utilizing the **EDGE** to regulate the air fuel ratio will assure maximum continuous emission reduction under varying loads. The **EDGE** is an air fuel ratio controller that uses feedback from a heated exhaust gas oxygen sensor to maintain precise control of the air fuel mixture. Use of the **EDGE** and an appropriate catalytic converter can result in dramatic



reductions in exhaust gas pollutants, particularly Oxides of Nitrogen (NO<sub>x</sub>), Carbon Monoxide (CO), and Hydrocarbons (HC). Catalytic converters require a constant air fuel ratio to the engine in order to work effectively – the **EDGE** provides the precise control needed to maintain that constant air fuel ratio. The resulting system provides accurate and stable control, which results in high catalyst efficiencies and reduced stack emissions. By automatically maintaining an optimum air fuel mixture,

emissions compliance is achieved and catalyst life is maximized without operator supervision. The **EDGE** works with new or existing propane, natural gas or dual fuel systems.





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The EDGE NG builds on the core value of **EMIT** Technologies, Inc. Build the best possible products integrating technology, at the best possible price while providing the best possible service and support. The **EDGE NG** has been designed to comply with requirements of CLASS I, DIV. 2, GROUP A, B, C, & D environments

The **EDGE NG** features:

Compact footprint 6" x 5"; Panel or face mounting

Vacuum florescent display (VFD) with 8 levels of brightness control

Graphical display of real time Oxygen Sensors, Digital Power Valve, and Thermocouple readings and setpoints

Diagnostic error messages

Power requirements 12-24 VDC





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Fail safe design features and fault annunciation

Password control for critical entries

User programmable.

A microprocessor and an integrated display to show real-time engine status and operation.

Integrated high temperature shutdown.

A wide variety of alarm conditions and responses are configurable.

The controller is configured at the factory for either single bank or dual bank control.

Optional EDGE Link Modbus RTU communications.

The **EDGE NG** controller is also available as a replacement kits for existing installations





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**Ask A Question**

Building on the success of the popular **EDGE NG** air fuel ratio controller *EMIT* Technologies, Inc. is pleased to announce the new **EDGE ST12** air fuel ratio controller for stoichiometric natural gas engines. The **EDGE ST12** is designed specifically for engines under 200 HP, with 12 volt power. Use of the **EDGE ST12** and the appropriate catalytic converter can result in dramatic reduction of exhaust pollutants such as NO<sub>x</sub>, CO and HC.

The new controller continues on the core value of *EMIT* Technologies, Inc. Build the best possible products integrating technology, at the best possible price while providing the best possible service and support.

The **EDGE ST12** features:

- Compact footprint 4.5" x 3.5"
- Utilizes EDGELink Software for programming & diagnostics
- Power Requirements 12 VDC
- Fail safe design features and fault annunciation
- Single Bank Engine
- Senses engine run from either a pulsing engine signal or thermocouple input





Same control platform as ***EDGE NG***



**EMIT** Technologies, Inc. offers

## NSCR, Oxidation, or Diesel Oxidation Catalytic Convertors

Available as Round, Octagonal or Rectangular in industry standard or custom sizes

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The advantages of the **EMIT** Technologies' catalyst elements are:

*A truly rigid substrate vs. a wrapped and pinned foil*

*Stainless steel banded for superior protection and durability*

*The heat resistant foil provides improved shape stability*

*Substrate receives intensive heat-treating prior to catalyst coating further improving the rigidity of the substrate*



**EMIT Technologies**



### **Other brands**

Many other brands of catalysts consist of corrugated metal foil sprayed with a catalyst coating and wrapped into an element.

*Utilizing a corrugating/winding process refined with 20 years of expertise results in substrates with unsurpassed rigidity preventing nesting and sagging*

*Elements provide high resistance to thermal and mechanical shock*

*Superior temperature and aging durability*

*Transition metals and lanthanide series patented catalytic coating*

*High activity precious group metals*

*Low backpressure*

*Enhanced resistance to poisoning*

*Low light off temperatures*

*Wider operating window*

*Cost effective*





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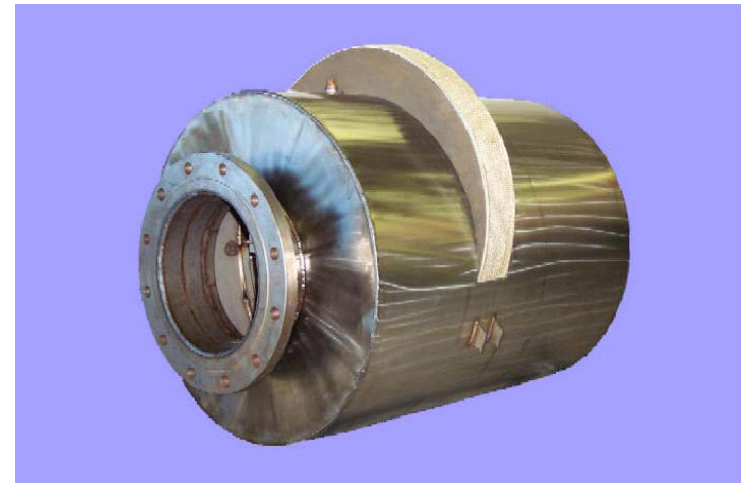
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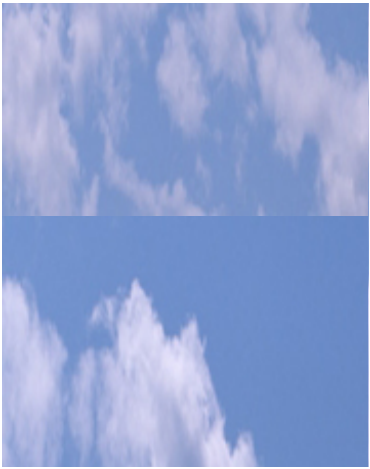
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Designed to accommodate either single or dual elements or silencer units, catalyst housings are custom built to the exact specifications of the application.

- *Available with combination catalyst/silencer option.*
- *Available with integrated catalyst/silencer housing in either critical or hospital grade.*



Through solid engineering and quality control, the potential for exhaust blow-by is virtually eliminated. All components are ruggedly designed and constructed to provide high resistance to thermal shock and vibration, ensuring a housing with continuous trouble free operation.







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Cleaning elements with:

Garden hose, Air compressor, or Car wash

**ISN'T ENOUGH--**

Sub-standard washing allows the wash water and deposited ash to drain into the local water system. This creates water quality problems and potential fines

EMIT Technologies, Inc. can correctly and safely wash your used catalysts in order bring back some of their original qualities.



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## ***EMIT* Technologies, Inc.**

772 Airfield Lane

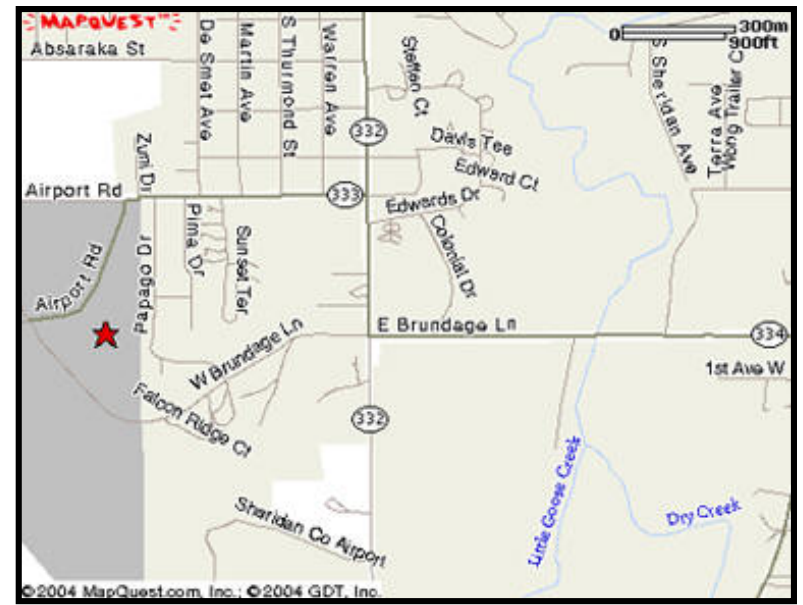
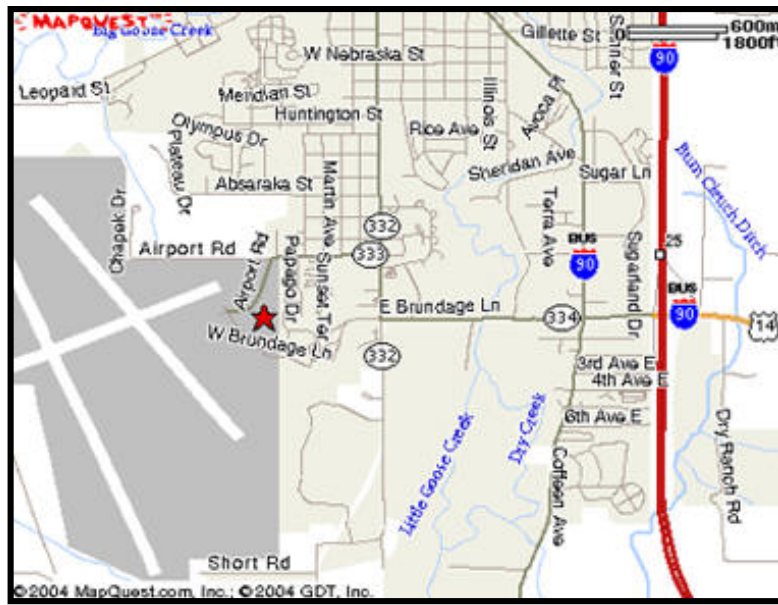
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