



Protecting our urban environments

Exhaust Control Industries Air and noise pollution control specialists



Working with the experts

Exhaust Control Industries (ECI) has, without doubt, become the recognised leader in air and noise pollution control in Australia.

For over 25 years, we have continually strived to develop innovative air and noise pollution control products, using cutting edge technology to meet local and international emission standards.

Our people are as passionate about the environment as they are about working with clients to create custom solutions that often not only meet, but exceed, OH&S recommendations.

Our facilities and equipment are world class and our experienced design and engineering team use the latest CAD facilities to customise projects.

Our product range is comprehensive and we tailor solutions for basically any air and noise pollution issue where product performance levels are critical.

Talk to the experts.

SCR NO_x Abatement Systems

Protecting our urban environments

There is an ever-increasing need for power generation coupled with stringent air policy regulations governing our urban environments. This means controlling NO_x (oxides of nitrogen), as it is the precursor for smog.

Post-combustion NO_x control systems are fitted on diesel and gas fired engines, turbines and industrial process applications such as galvanising and glass manufacturing. They can also be found in power plants and applied to gas and coal fired boilers.

SCR (Selective Catalytic Reduction) is the technology used to control NO_x and the continued need to expand our emission reduction technology has seen the introduction of the ECI SCR System for NO_x abatement.

ECI are innovators of SCR Systems in Australia. In fact, over the past 25 years ECI has designed and manufactured numerous Co-Generation and SCR projects in Australia.

How does SCR work?

- Selective catalytic reduction is a post-combustion control technology capable of reducing NO_x emissions by 80%-95%+.
- The ECI Selective Catalytic Reduction System selectively reduces NO_x by combining liquid urea/ammonia (NH₃) & oxygen (O₂) with NO_x in the exhaust gas in the presence of a catalyst to form molecular nitrogen (N₂) & water (H₂O).

Why use SCR (selective catalytic reduction)?

- Oxides of Nitrogen (NO_x) are the precursor for smog.
- There is an ever increasing need for power generation energy efficiency coupled with stringent air policy regulations.
- Fitting post-combustion NO_x control systems on diesel and gas fired engines, turbines and industrial process applications, reduces pollution in our urban environments.



Catalyst Systems

Reducing harmful emissions in diesel, chemical and industrial operations

Catalyst Coating

Catalytic coatings for soot traps and flow through catalysts in both ceramic and metallic substrates reduce harmful emissions in chemical and industrial processes as well as from diesel exhausts. ECI offers unlimited flexibility in custom designing special catalytic and washcoat coatings to suit a broad range of applications.

Oxidation Catalyst Systems

Oxidation catalyst systems are used to reduce harmful exhaust gas emissions such as carbon monoxide and hydrocarbons from diesel and gas engines in both stationary and mobile applications.

ECI can supply and install a range of oxidation catalyst systems designed and manufactured for particular applications. There is also a complete range of combination silencers/catalytic converters.

Predator™ Particulate Catalyst

Predator Particulate Catalyst is an open filter structure, developed to trap particulate matter in LD and HD diesel vehicles. Predator can reduce particulate matter emissions by up to 80%.

PREDATOR™
PARTICULATE CATALYST

Catalytic Purifiers

Catalytic Purifiers are used to control exhaust gas emissions in applications such as underground mining equipment, forklift trucks, emergency generator sets, stationary engines, trucks and buses.

ECI manufactures a comprehensive range of catalytic purifiers designed to suit internal combustion engines operating on diesel, LPG, LNG, CNG or unleaded petrol.

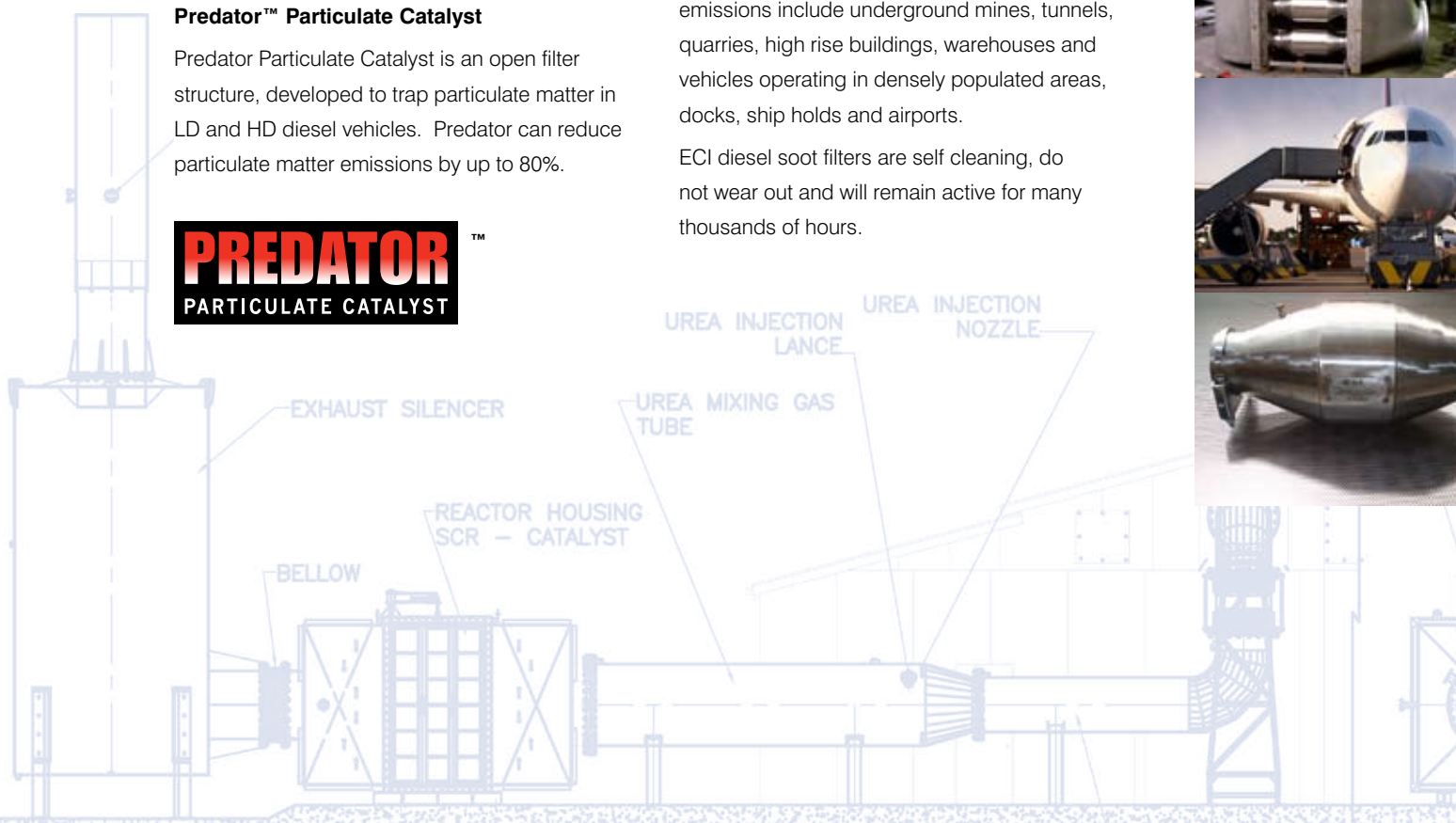
Diesel Soot filters

Diesel engines operating in close proximity can be a source of potentially harmful carcinogenic particulates and smoke causing emissions as well as carbon monoxide and hydrocarbons.

ECI designs and manufactures diesel soot filters specially to reduce these harmful emissions from diesel engines.

Typical locations require lowering in soot emissions include underground mines, tunnels, quarries, high rise buildings, warehouses and vehicles operating in densely populated areas, docks, ship holds and airports.

ECI diesel soot filters are self cleaning, do not wear out and will remain active for many thousands of hours.





Quieter working environments and waste heat recovery

Waste Heat Recovery Silencers

Waste heat from diesel and gas generators is recovered and used for making steam and hot water in hospitals, holiday resorts and power plants. ECI manufacture a comprehensive range of recovery systems to the AS 1210 standard.

Complete turnkey package available including the total mechanical installation of the generator set and its ancillary equipment.

Silencers

Intake and exhaust silencers are designed and manufactured to suit all types of engines including stationary generators, pumping sets, compressors, ships, mining equipment, trucks and buses.

The comprehensive product range includes both reactive and absorptive designs suitable for industrial, residential and super critical levels of sound attenuation.

Cowl Spiral Silencers

Cowl high performance, compact exhaust systems reduce exhaust noise from diesel and gas engines where space is limited. They are suitable for vessels, mining equipment and, in particular, forklifts.

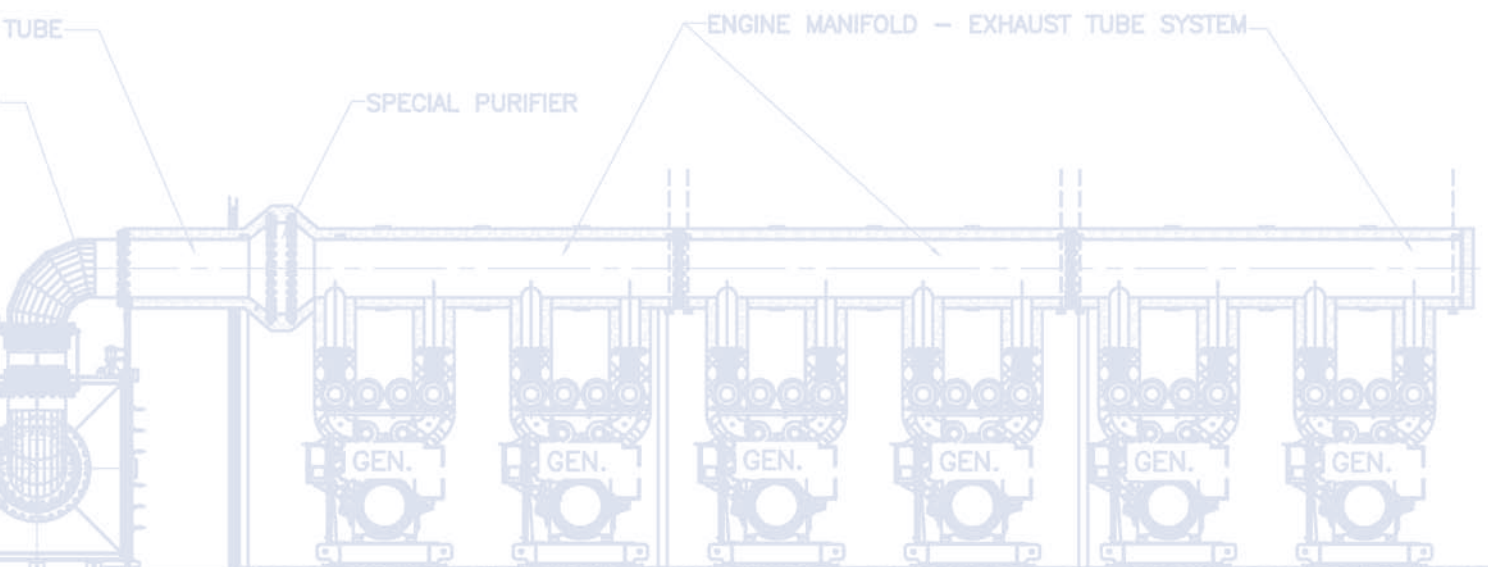
Cowl silencers have a spiral chamber configuration that allows free flow of gas through a uniform cross section partially lined with stainless steel wool and mesh. Noise is diffused and progressively attenuated as exhaust gas passes through the spiral.

ECI import, distribute and install a comprehensive range of Cowl silencers.

Acoustic Products

Acoustic products include enclosures, ventilation silencers, acoustic panels, acoustic doors and noise attenuating louvers. They are used for the reduction of unacceptable noise levels from diesel and gas engines and other critical acoustic applications.

ECI design, manufacture and install acoustic products for a wide cross section of applications.





Sky over city.
SCR Technology
cuts smog

Hospitals, Office towers.
Waste Heat Recovery Silencers

Buses.
Catalytic Purifiers

Diesel trucks.
Predator™ Particulate
Catalyst

Airports. Docks.
Diesel Soot Filters

Factories.
NOx Control Systems

Ships. Silencers

Exhaust Control Industries

Air and noise pollution control specialists

ECI is the leader in Co-Generation and SCR Technology in Australia.

Our air and noise pollution control products include silencers, mufflers, diesel soot filters, diesel particulate catalyst, catalytic purifiers, heat waste recovery silencers and acoustic enclosure products.

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