

Case Study: Irisbus

Award winning system for new buses

Coach and bus manufacturer Irisbus produces around 10,000 vehicles each year in Europe.

Eminox first began working with Irisbus by supplying Continuously Regenerating Trap (CRT®) systems as an option for Euro 2 and 3 vehicles. The CRT® effectively removes over 90% of particulate matter, hydrocarbons and carbon monoxide from exhaust emissions.

As a result of this success, in 2003 we were invited to work with Irisbus on concepts for Euro 4 vehicles.

In order to achieve this emission standard, we developed a unique approach to selective catalytic reduction (SCR) technology which could optionally be combined with a CRT®. Unique patented* mixing technology allows close coupling of the SCR and CRT® sections, producing an extremely compact unit.

Thanks to this approach we were able to generate a range of options to meet not only Euro 4, but also Euro 5 and EEV (Environmentally Enhanced Vehicle) standards.

We produced prototypes in the UK which were tested by Fiat Powertrain, using a variety of techniques including static engine bay testing and road tests in extreme conditions. As a result of superior product performance and our successful track record, we were selected as sole supplier for the complete range of Irisbus after-treatment systems, including gas vehicles.

Two basic packaging solutions were developed, capable of housing all product variants and meeting the needs of all vehicles in the Irisbus range.

The Citelis city bus equipped with the unique SCR + CRT® option won the 'Energy / Environment' category at the Public Transport Innovation Awards in 2006.

