



## NOx SELECTIVE NON-CATALYTIC REDUCTION SYSTEM (SNCR) - GEM SIU 144

GEM Matthews International has developed and installed many modular systems for "selective non-catalytic reduction" (SNCR) of nitrogen oxides (NOx) in incineration and cremation processes, mounted on skids and applicable to several plants in series.

The reduction of NOx is given by the injection into the secondary chamber of a reagent diluted in aqueous solution, i.e. this method uses a 30% urea solution to reduce NOx in N<sub>2</sub> and H<sub>2</sub>O, reaching an abatement efficiency of approximately 50-60%.

To do this, the system designed by GEM provides for a continuous analysis of NOx in the chimney to dose the quantities of urea as a function of the measured NOx value in real time. Thus the injection is performed only if necessary and managed automatically based on the data received from the continuous NOx monitoring system.

