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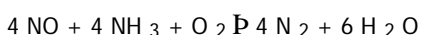
Tecnologie COV

Tecnologia DENOX

Selective catalytic reduction of nitrogen oxides (DeNOx - SCR)

The process SCR (Selective Catalytic Reduction) is recognized as the best available technology (BAT) for the control of NO_x, particularly in applications that require a high abatement efficiency (greater than 60-70%).

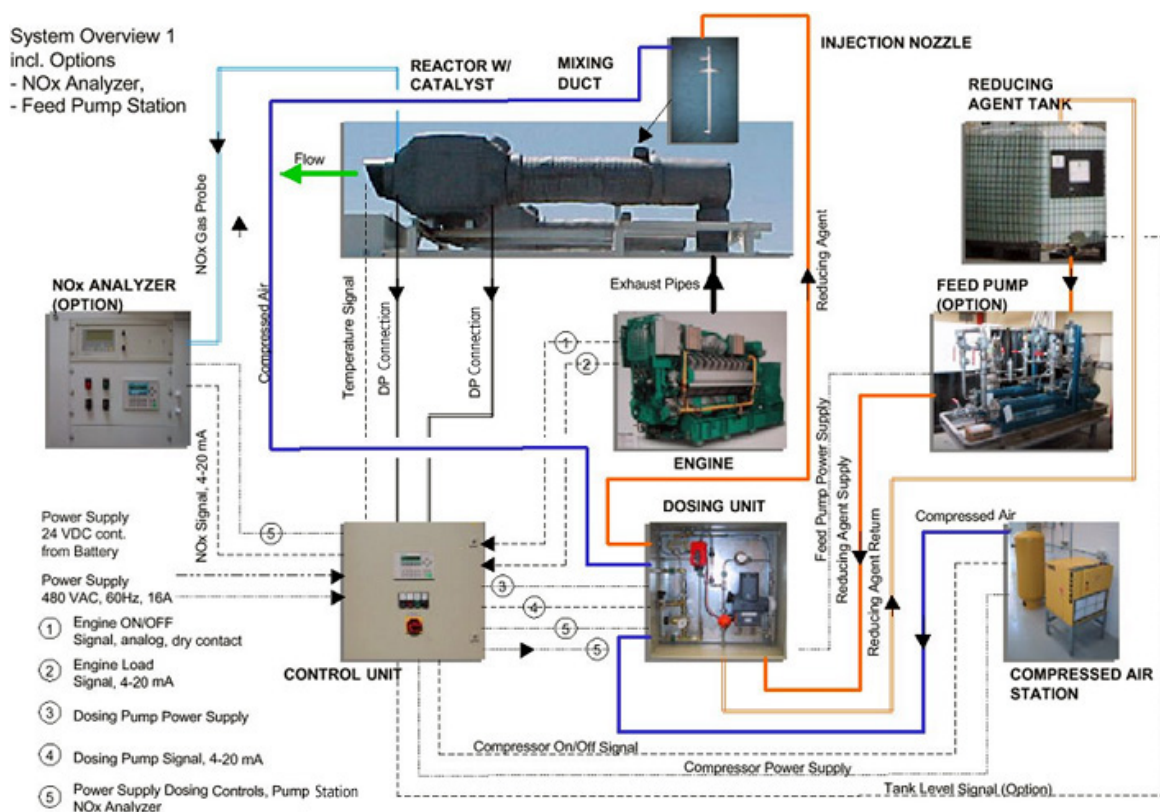
The DeNO_x SCR process is based on the reaction of nitrogen oxides with ammonia excess oxygen to form nitrogen and water vapour in the presence of suitable catalysts stochiometria according to the following:



The reaction, which runs quickly in the presence of an appropriate catalyst in a range of temperature between 250 ° C and 450 ° C, Stechiometria be accountable for the overall process as nitrogen oxides are formed by more than 90% NO.

The term "selective" refers to the ability of the ammonia to react with NO directly instead of being oxidized by air, which is specific feature of ammonia because there was no other Reducing such as hydrocarbons, or H₂ CO.

Scheme plant - DeNOx - SCR



ICA, is the exclusive representative in Italy for society ARGILLON GmbH, with its headquarters in Redwitz in Germany, the world's leading technology SCR DeNO_x and supply of catalysts and SCR DeNO_x systems for all industrial applications.

ARGILLON ICA together and are therefore able to offer SCR DeNOx catalysts, catalytic oxidation (Oxi-Cat) and SCR DeNOx complete systems (SINOx ®) for a correct implementation in the following industries:

- Cogeneration with gas engines, oil and vegetable oil
- Plants glass, refineries, cement plants, chemical plants
- Waste incineration plants and biomass
- Gas Turbines and conventional power plants (coal, oil and gas)

SCR DeNOx Systems GmbH of ARGILLON generally consist of the following main components:

- SCR DeNOx catalyst (and oxidation catalyst if required)
- SCR reactor
- System assay reagent (Ammonia and Urea)
- Injection system reagent (Ammonia and Urea)
- System local control (PLC)
- Analytical smoke (optional)
- System storage reagent (Ammonia and Urea)

ARGILLON ICA and are also able to offer their customers the only provision of SCR DeNOx catalyst, both in structure honeycomb (Honeycomb) that the structure plates (Plate), thus covering all industrial applications (conditions operational dirty with smoke and dust high in a clean condition with smoke), both for new plants and for existing plants (replacing the catalyst exhausted).

Contact for SCR DeNOx Technology - Ing. Andrea Carli