



2



Increasing Plant Capacity or Absorption Efficiency of Nitric Acid Plants by Introduction of Oxygen

A new concept for a capacity increase or an improvement of absorption efficiency has been developed by Messer Group GmbH. Oxygen is dosed to specific points in the liquid and/or gaseous phase in order to optionally increase efficiency significantly or increase plant capacity.

Advantages at a glance:

- Considerable increases in capacity (up to 10%)
- Significant NOx reduction before and after existing DeNOx plants
- Longer life time of existing DeNOx catalysts, requiring less frequent investments
- Saves NH₃ or natural gas for the DeNOx
- Low investment costs – short payback period
- Additional flexibility of production capacity

Messer produces industrial gases, medical gases and gas mixtures. In state-of-the-art competence centres, Messer develops application technologies for the use of gases in almost all branches of industry.

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