JENBACHER

SCR-Catalyst Retrofit Package for low NOx emissions requirements

Conversion, Modification & Upgrade

Product description

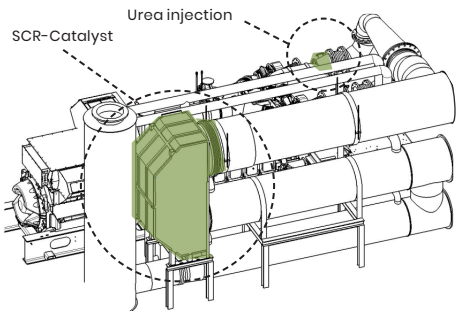
SCR-Catalyst package designed for integration to existing natural gas plants to be in compliance with low NOx emissions requirements e.g. BEMS decree Netherlands NOx <88 mg/Nm³ at 5% O_2 - dry emission requirement for plants with more than 2 MW thermal output.

Product details

The customer can choose between a standardized solution for self-integration to the current plant design (Light package) or a complete customized plant integration from the OEM (Full package).

Light package:

- SCR housing filled with catalyst material
- Dosing system incl. urea pump panel, air supply and metering panel, dosing valve panel, injector
- Measurement devices (delta-p, T in/out, NOx)
- Electrical hardware changes inside control cabinet
- Software changes to DIA.NE* unit controls system
- Commissioning
- OEM documentation update



Full package:

- Light package scope
- Mechanical and electrical engineering
- Integration of the system components to the existing plant
  - Mechanical: panels, support structure, piping changes, compensators
  - Electrical: hardware mounting, wiring, testing
  - Urea system: transfer lines and interconnections
- System checks & test runs
- Turbocharger enhancement to reduce operational impact of back-pressure increase
- Commissioning
- OEM documentation update

Options:

- Urea tank
- Trace heating for urea transfer line
- Scaffolding
- 3rd party measurement

Out of scope:

- Any permit changes
- Civil works beyond optional support structure for SCR housing

Customer benefits

- **Complete OEM solution**
  Enhanced SCR-system solution carefully aligned with the engine to reduce trade-offs between low emissions and increased engine performance.
- **High temperature resistant catalyst formulation**
  In most cases there is no need for installation and integration of an additional exhaust pre-cooler before SCR-system.
- **Back-pressure enhanced design**
  Low pressure drop design to avoid/reduce power deratings at hot ambient conditions.
- **Compact system dimensions and use of existing components**
  Reduce plant re-building efforts and thereby reduce installation cost of the overall solution.
- **Controls integrated in Jenbacher* DIA.NE unit control system**
  Joint control system to enhance interaction between engine and SCR-system. Simple control by utilizing well known unit user interface.
- **Remote monitoring and diagnostics**
- **Service agreement option**
  New and existing maintenance agreements can be extended to include the SCR-system.

Applicable units

Type J320	✔	Type J612	✔
Type J416	✔	Type J616	✔
Type J420	✔	Type J620	✔

Standard pricing for light package available. Project specific pricing for full package and options

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