

JENBACHER OXIDATION CATALYST UPGRADE

For Jenbacher engines¹ operated on pipeline gas, biogas, sewage gas, or coal mine gas

To address ever-tightening emissions regulations across the globe, INNIO Group continuously researches and develops solutions that help you achieve regulatory compliance.

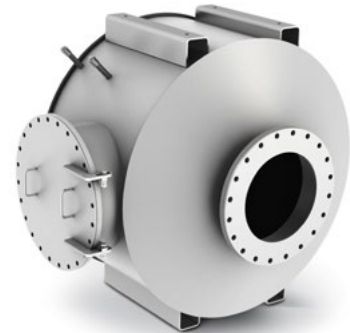
Highly flexible configurations & deflagration-safe design

Perforated plate at inlet
for homogeneous flow distribution
Installation in rectangular housing

Once installed, housing
helps you meet various emission requirements

Flexible
flow direction

Oxidation catalyst



Upgrades: Enhancing performance

Our innovative solutions are constantly upgraded to increase your plant's sustainability and bring you top economic results. Let INNIO Group—your Jenbacher system's original equipment manufacturer (OEM)—partner with you for the unique insights you need to always stay up to date. Building on your constant feedback, we offer a broad range of upgrade packages for your Jenbacher products. That is why we also continuously develop emission reduction solutions for you.

¹ This upgrade is available for Type 2, 3, 4, and 6 engines for pipeline gas, biogas, sewage gas, and mine gas applications. For J624 and J920 engines, the upgrade is limited to pipeline gas applications.

Product details

This package helps you meet the latest regulations, including formaldehyde requirements of the federal/state working group for immission control in Germany (Bund/Länder-Arbeitsgemeinschaft für Immissionsschutz, LAI) with as low as 20 mg/Nm³ at 5% O₂-dry and formaldehyde incentive. Based on your specific power plant design, the upgrade package is available in a basic configuration or with additional add-on options as required.

Basic package:

- Comprehensive design review to determine your plant's ability to mount additional catalyst material as well as to evaluate pressure drop, flow, and engine full-load capability related to the engine control's reserve
- Improved oxidation catalyst material for longer part life (design product life cycle up to 16,000 operating hours)
- Mounting materials as required (seals and screws)
- Commissioning
- Updated OEM documentation

Additional options:

- New flow-improved and space-enhanced catalyst chambers
- Measurement devices (delta-p, temperature in/out)
 - > Changes to electrical hardware inside the control cabinet
 - > Modifications to DIA.NE software controls
- System component installation and integration with the existing power plant
 - > Mechanical components including panels, support structure, piping changes, and compensator
 - > Electrical components including hardware mounting, wiring, and testing
- Comprehensive verification and testing of upgrade package integrations
- Turbocharger upgrade for reduced operational impact of additional backpressure
- Third-party emissions measurement analysis

Out of scope:

- Any permit changes
- Civil works (with the exception of the above optional add-on for the catalyst chamber support structure)

Customer benefits

Complete OEM solution

Our consultants perform a thorough plant review to help ensure that the upgrade implementation meets the latest formaldehyde and CO emission requirements (upgrade vs. shorter catalyst exchange interval). All upgrade implementations are fully tested and validated.

Improved flow

Homogeneous flow distribution enables a longer catalyst life.

Highly flexible configurations

With our design, we have the flexibility to adapt the installation position based on your specific requirements.

High efficiency

The low-pressure drop design curbs power deratings, which can occur in higher ambient temperature environments.

Reduced installation effort

Thanks to the compact system dimensions and the use of existing components, the upgrade package requires only minor modifications to the system. The oxidation catalyst can be easily installed from the outside.

Service agreement coverage

Your new or existing maintenance agreements can be extended to include the oxidation catalyst upgrade package.



Upgrade your engine
Enhancing performance
jenbacher.com/upgrades



Contact us:
jenbacher.com/en/contact



Learn more about the implementation of the Jenbacher emissions reduction package in practice: **Customer reference STAWAG**

For more information, visit INNIO Group's website at innio.com, the Jenbacher website at jenbacher.com, or the Jenbacher Services website at jenbacher.com/en/services

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