

- Sampling Conditioning Systems ● Process Analytics
- System Integration ● Gas Generators ● FTIR-Analysers

conditioning systems

CONDITIONING SYSTEMS

NO₂ to NO Gas Converter JNOX



FEATURES

- ◆ Approved and reliable technology
- ◆ Converter efficiency > 95%
- ◆ Long life converter cartridge
- ◆ High flow design
- ◆ 3U high 19" rack mounting
- ◆ Wall mounting

GENERAL

The JNOX Series is designed to convert NO₂ to NO for extractive flue gas analysis systems where total NO_x concentrations are measured with an NO-NDIR analyser. 4 different models are available. The JNOX-CT and JNOX-CV which both require conditioned, dried and filtered sample gas while the series JNOX-V and JNOX-T both have a heated inlet and accept filtered hot wet sample gas upstream of the analyser.

TECHNOLOGY

The heated converters (model V & T) are provided for conversion of the NO₂ while the entire sample is in a vapour state. This configuration then avoids the NO₂ loss that normally occurs in sample gas coolers

that are used with dry based chemiluminescence and Infrared analysers. The converters are electronically controlled to 400°C with the operating temperature digitally displayed on the front panel.

FEATURES

A standard safety feature provides automatic bypass of the converter during start up and in the event of a converter low temperature alarm (models CV & V only). A status contact is also provided for unattended trouble free operation. For long cartridge life, the recommended converter material is Carbon. As an option, a converter cartridge filled with metallic material is available.

TECHNICAL DATA

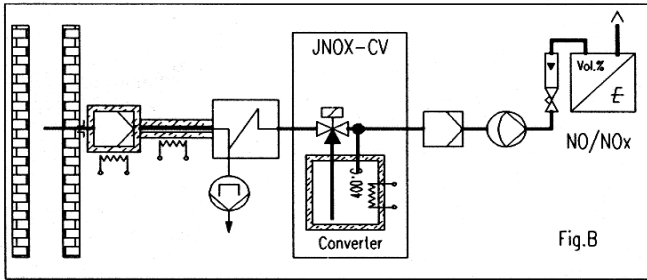


Fig.B

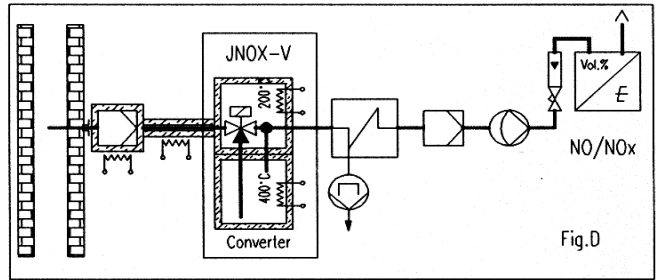
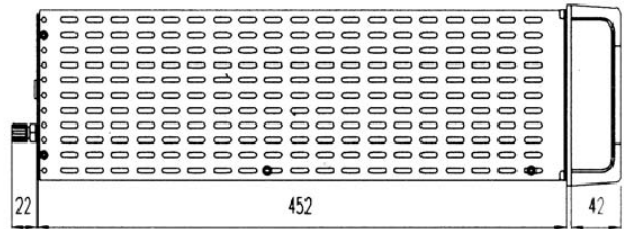
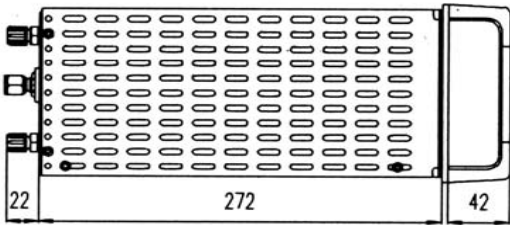
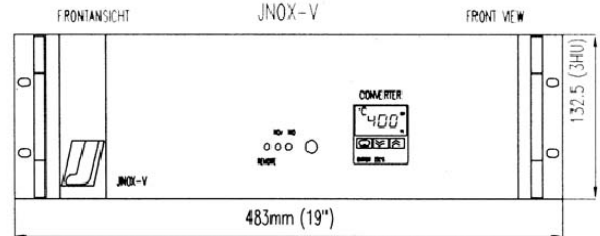
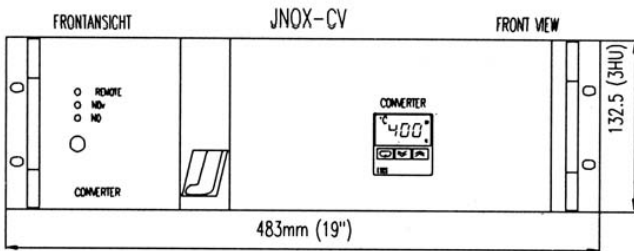


Fig.D



SPECIFICATIONS

Efficiency NO ₂ / NO conversion	> 95%
Converter material	Carbon Option: Metallic
Operation temperature	400 °C
Max. Temperature at gas INLET	50 / 200 °C
Max. Operation pressure	2bar abs.
Pressure drop	< 20mbar @ 60 NL/h

Applications:
NO₂ / NO converting in filtered, dry cool gas:

ORDER CODE	DESCRIPTION	MODEL
17.20x40	Carbon-converter	- CT
17.20x42	Metallic-converter	- CTM
17.20x50	Carbon-converter selectable	- CV
17.20x52	Metallic-converter selectable	- CVM

SPECIFICATIONS

Gas flow	30 ... 60 NL/h max. 90 NL/h
Volume of the converter cartridge	133 cm ³
Status contact rating	max. 24V, 1A
Mounting	19" rack, optional wall mounting
Protection rate / electrical standards	IP20 / EN60529
Weight	< 10kg

Applications:
NO₂ / NO converting in filtered, hot gas:

ORDER CODE	DESCRIPTION	MODEL
17.30x00	Carbon-converter	- T
17.30x01	Metallic-converter	- TM
17.30x10	Carbon-converter selectable	- V
17.30x11	Metallic-converter selectable	- VM

X=0 230VAC; x=1 115VAC

Specification subject to change without notice.

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