



## Data collection sheet for calculating a DeNOx system

Dear customer,

to comment on your gas conditioning problem, we would require all data known to you and indispensable for computing.

Company: ..... Date: .....

Address: ..... Contact person: .....

..... Phone/Fax: .....

..... E-Mail: .....

SNCR       SCR

**1. Gas data**

■ Clinker production (in case of cement plant) ..... t/d

Gas flow [Nm <sup>3</sup> /h*, wet]	t inlet [°C]	
max.:	min.:	max.:
nominal:	min.:	max.:
min.:	min.:	max.:

Gas composition [Vol. %]	H <sub>2</sub> O	O <sub>2</sub> wet	O <sub>2</sub> dry				

■ Built NOx ..... mg/Nm<sup>3</sup> at ..... % vol. dry O<sub>2</sub> (Reference O<sub>2</sub> content)

■ Limit value NOx ..... mg/Nm<sup>3</sup> at ..... % vol. dry O<sub>2</sub> (Reference O<sub>2</sub> content)

■ NH<sub>3</sub> slip ..... max. .... ppm

■ Split of NOx: NO/NO<sub>2</sub> ratio .....

Chemical reactant:     Ammonia solution     Urea solution    Concentration ..... %

Required volume amount [l/min]	max.	min.

**2. General conditions**

Dimensions:    Ø pipe ..... mm length x width ..... mm

■ Available reaction distance ..... m

■ Direction of gas     ↓     ↑     ⇒

■ Is injection system always in operation?  Yes     No    In case the operation is interrupted, running time ..... %

■ Atomizing Air    max. available over pressure ..... bar, g



**3. Constructive and technical details**

- Wall thickness (incl. brick lining) ..... mm
- Required installation length of lances ..... mm
- Number of injection levels ..... pieces     to be determined
- Number of lances per level ..... pieces     to be determined

Optional

- Design in special material (standard 1.4571/1.4404 or 1.4841) .....
- Protection of lance (e.g. protection tube with barrier air) .....

**4. If available, please attach**

- Process flow sheet
- Sketch/drawing of gas pipe with dimensions
- Extract from temperature curves/trends

**Additional documents for SNCR systems:**

- Marking the position of the expected temperature window in drawings

**Additional documents for SCR systems:**

- Distance to installations, deflections and to the catalyst
- Position of static mixer

**5. Miscellaneous**

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