ENGINEERING
YOUR SPRAY SOLUTION

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 [Nm³/h*, wet]	t inlet [°C]	
max.:	min.:	max.:
nominal:	min.:	max.:
min.:	min.:	max.:

Gas composition [Vol. %]	H_2O	O_2 wet	O_2 dry				

■ Built NOx ..... mg/Nm³ at ..... % vol. dry O_2 (Reference O_2 content)

■ Limit value NOx ..... mg/Nm³ at ..... % vol. dry O_2 (Reference O_2 content)

■ NH3 slip max. ..... ppm

■ Split of NOx: NO/NO_2 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

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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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