

Selective Non-Catalytic Reduction (SNCR)

In the area of Frankfurt a special task was assigned to sonUtec: a Factory producing graphite electrodes needed a new waste gas treatment, to reduce its nitrous oxide (NO_x) -Emissions. Two kilns were to be equipped with such a denitrification system.

A selective non-catalytic reduction was chosen as the technology, because the flue gas already had temperatures in the range of 900°C to 1 000°C. This allows the direct application of the reduction agent into the flue gas, as the reaction takes place without a catalyst. Also, investment and maintenance costs are lower for the customer.

The DeNO_x unit was handed over as a turnkey installation, complete with reduction agent tank and dosing module.

Data:

Volumetric flow	up to 25 000 m ³ /h
Temperatures	900 to 1000°C
Concentrations	up to 1000 mg/m ³ NO _x
Clean gas	lower than 350 mg/m ³ NO _x



Non-catalytic reduction (SNCR), installed in ISO-Container; stack with dosing platform

Sonneberg, August 2014