SCID

Selective Chemical Induced Denitrification ($DeNO_X$)

For decades SNCR and SCR have been the choices of dry flue gas after treatments. With SCID, the existing narrative is completely overturned.

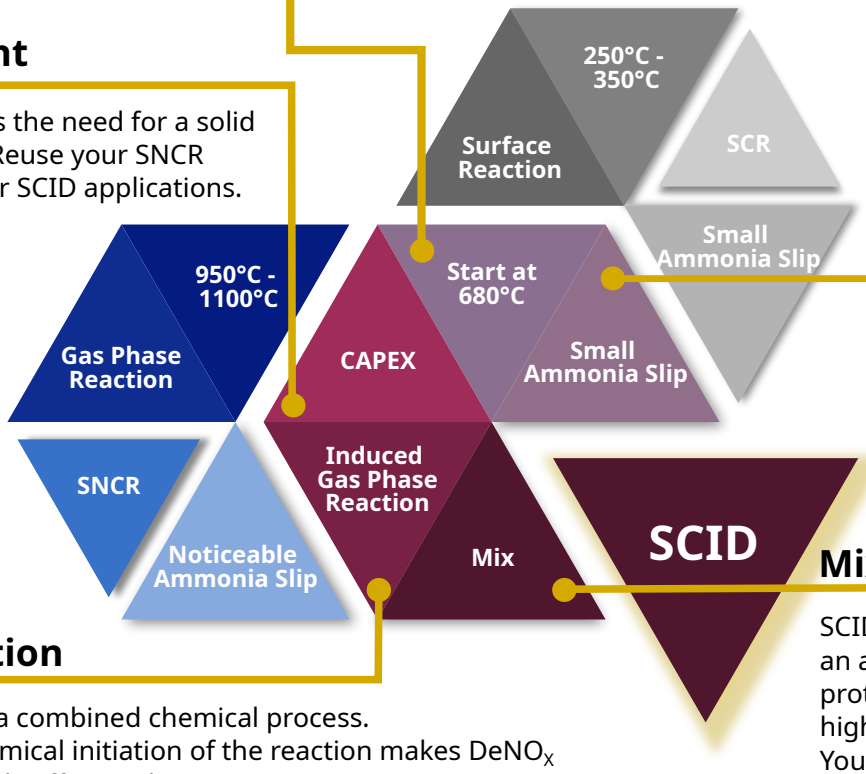
Selective Chemical Induced Denitrification is a pioneering chemical approach, supporting the solid-state-catalyst-free denitrification of industrial plants, by applying a plant-specific proton doner to take advantage of both known systems. These are the considerable benefits:

Temperature

SCID starts at 680°C (ammonia, urea at 800°C) to reach its full potential. SCID opens up new applications (you get better $DeNO_X$ conditions).

Investment

SCID eliminates the need for a solid state catalyst. Reuse your SNCR components for SCID applications.



Ammonia Slip

The induced and efficient reaction ensures that the reactant is completely consumed. You get a lower ammonia slip.

Mix

SCID Mix always contains an agent and a plant-specific proton donor. This results in higher efficacy (up to 100%): You need less reduction agent.

Reaction

SCID is a combined chemical process.
The chemical initiation of the reaction makes $DeNO_X$ extremely efficient (lower NO_X).

In other words - SCID supports the $DeNO_X$ reaction chemically. SCID is in-depth nitrogen chemistry and therefore not owned by anyone (no licence fees).

SCID induces denitrification instantly: more effective $DeNO_X$, lower ammonia slip and less reactive agent needed.