PRODUCT DATASHEET

Ammonia Vaporiser and SCR Injection Skid

Ammonia vaporisation, dilution and injection for NOx control by SCR

Product page





Close-up: vaporiser and dilution-air blower

OVERVIEW

The Tech Inc. Ammonia Vaporiser and SCR Injection Skid supplies the ammonia that a selective catalytic reduction (SCR) system needs to turn NOx into nitrogen and water. Aqueous or anhydrous ammonia is metered, vaporised with heated dilution air or an electric vaporiser, mixed and distributed through an injection grid ahead of the catalyst, with the flow trimmed to the NOx measured at the stack.

TYPICAL DESIGN DATA

Reagent	Aqueous (19–25%) or anhydrous ammonia
Feed	About 5 to 200 kg/h ammonia
Vaporisation	Heated dilution air or electric vaporiser
Codes and standards	Pressure parts to ASME B31.3; electrical to IEC 60079 where classified; ammonia safety to the site rules
Materials	Stainless steel; no copper alloys in ammonia service
Control	PLC with feed-forward from load and trim from the NOx analyser
Safety	Ammonia detection, shut-off valves, relief and vent

MODELS AND CAPACITIES

- **TI-AVA-25** – about 25 kg/h ammonia
- **TI-AVA-75** – about 75 kg/h
- **TI-AVA-200** – about 200 kg/h
- **TI-AVA-DA** – dilution-air unit

Indicative ammonia feed.

ORDERING CODE

Example **TI-AVA-75-Q**: **75** ammonia feed, kg/h; **Q** reagent: Q aqueous, A anhydrous.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: ammonia storage and unloading; injection grid; ammonia slip analyser; commissioning with the SCR supplier.

KEY ADVANTAGES

- **Accurate feed** – trimmed to measured NOx
- **Even distribution** – mixing and balanced grid
- **Fully vaporised** – no liquid reaches the grid
- **Safe** – detection and shut-off

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