

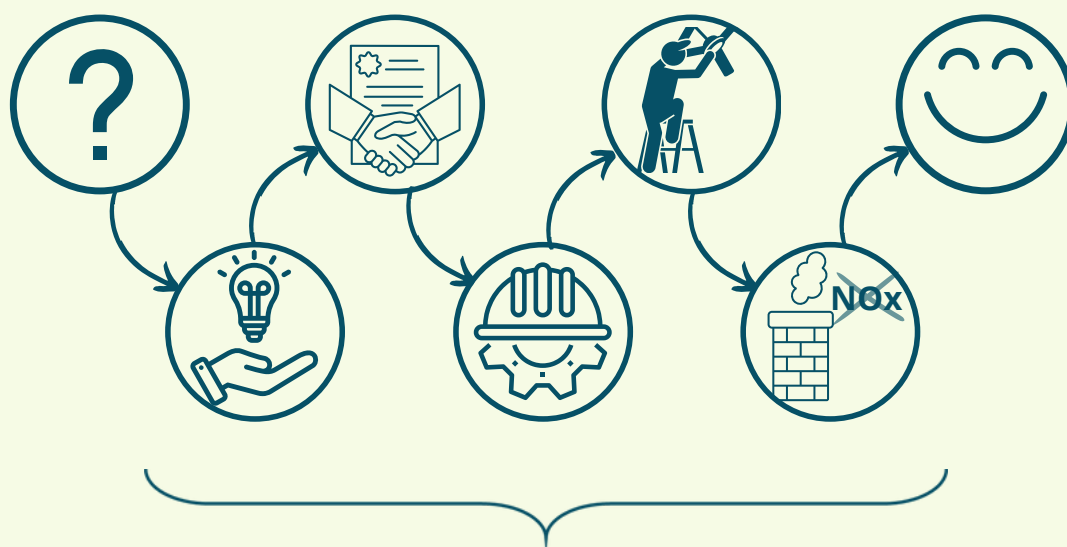
Reducing Boiler NOx emissions

NOx reduction solutions

After treatment solutions for boilers

Due to stricter NOx requirements, especially in protected areas, companies are limited in their growth or development or are even facing loss of production. In many boiler cases, installing a low-NOx burner to meet the new emission requirements is no longer sufficient. However, after treatment technology can provide a solution.

Array Industries is your partner for integrated downstream NOx reduction!



Array Industries

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Integrated downstream NOx reduction solutions

Green or brown field, site built or a single lift module, with in house engineering, manufacturing and installation, Array Industries integrates both standard and tailored NOx after treatment solutions.

System Design

- | | |
|----------------------|---|
| • Emission standard | : European Directive 2015/2193/EC for medium combustion plants ('MCPD') |
| • Controls | : smart control strategy with NOx sensor
local touch screen UI with remote access
suitable for integration and/or communication with site control |
| • Housing materials | : carbon or stainless steel |
| • Surface treatment | : plain, blasted and primed or pickled and passivated |
| • Thermal insulation | : mattresses or rock wool with aluminum cladding |
| • Pressure loss | : between 8 and 15mbar, system pressure validation by Array Industries included |
| • Design pressure | : maximum total system pressure 200mbar @ 600°C |
| • Support steel | : optional, EN1090 compliant |
| • Sound attenuation | : optional, reduction up to 45 dB(A) |
| • Integration | : standard solution or tailored to site |
| • Turn key | : engineering, manufacturing and assembly. Installation, start-up and commissioning assistance. After sales & service assistance |

Guarenteed Performance

- NOx – Nitrogen oxides > 80 - 97% reduction
- Sound attenuation up to 45 dB(A)

Operational conditions

- Application on boilers equipped with natural gas or oil burners
- Design temperatures 0°C <> 600°C,
- Operational temperature 250°C <> 600°C
- Ambient Temperature -20 + 55°C
- Degree of Protection IP55
- Relative humidity 5 to 95% Non-condensing
- Inspection & service Approx. 1x per year interval (normal conditions)

Consumables

- AC Power supply 3 x 400 VAC (4 wire), alternatives on request
- Compressed air for 8-25 Nm³/h @ min. 6 barg (urea atomizer) or airless system
- Urea specification AUS32, AUS40 or ammoniac cylinders or equivalent

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