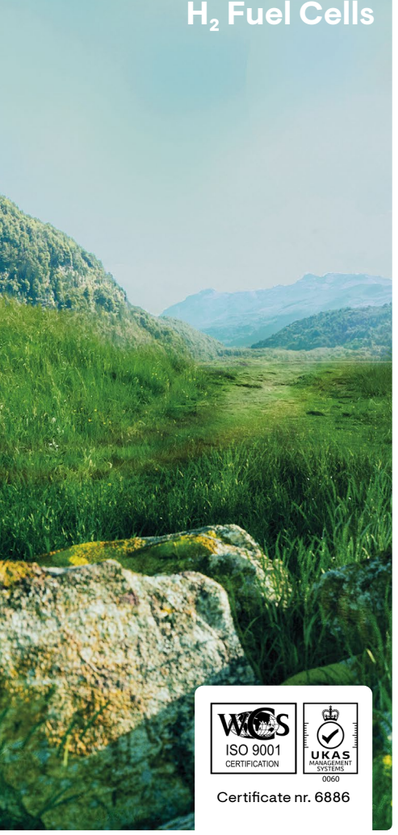
Emissions of gaseous Pollutants

Our other Product Categories:

Biogas & Bioenergy
Oil & Gas
Aluminium & Metals

Li-Ion Batteries & H_2 Fuel Cells



ISO 9001 CERTIFICATION
UKAS MANAGEMENT SYSTEMS 0060
Certificate nr. 6886

Our activity

Volatile Organic Compounds

- Thermal Oxidizers:
  - Regenerative Thermal Oxidizers
  - Recuperative Thermal Oxidizers
  - Direct Thermal Oxidizers
- VOC Rotor - Concentrators
- Gas and Liquid Incinerators
- Adsorption on Activated Carbon Plants
- Venturi Scrubbers
- Biofilters and Bio Scrubbers
- Condensation Plant
- Solvent Recovery
- NMP Recovery
- Catalytic Oxidizers
- Systems for Halogenated Compounds
- Gas Venting and Flares
- Oil Recovery from Aluminium Rolling
- Coalescent Filters

Inorganic Compounds

- Scrubbers and Washing Towers
- Venturi Scrubbers
- Biofilters and Bio Scrubbers
- Adsorption on Activated Carbon Plants
- SCR DeNOx Plant

Dust and/or Aerosols

- Scrubbers and Washing Towers
- Venturi Scrubbers
- Baghouse Filters
- Cartridge Dust Collector
- Cyclones
- Coalescent Filters

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Member of Deurotech Group

airprotech **Biogas & Bioenergy**

Air Protection Technology

Member of Deurotech Group

Since 1995, **Airprotech** is globally active with a wide range of solutions and products for the purification of industrial emissions, including VOC (volatile organic compounds), VIC (volatile inorganic compounds), aerosols, mists, odours and dust.

Due to the large experience in different application fields, the specific know-how and the global presence, **Airprotech** is one of the market leaders for the design, manufacturing and turnkey supply of exhaust gas purification systems and environmental technologies for air pollution control.

Biogas & Bioenergy

Bioenergy is the grouping of technology used to produce energy from biomasses and contribute to the growth of renewable sources and energy transition.
Airprotech has a specific sector dedicated to bioenergy: we fulfil different plants for the removal of the pollutants that characterise this sector and the stages of the production process of biogas or other bioenergy.

BIOGAS / BIOENERGY → **V.O.C. AND V.I.C.**
in particular:
CH_4
V.O.C.
NO_x
CO
NH_3
H_2S and Mercaptans
→ **PURIFICATION TECHNOLOGIES**
Thermal Oxidation
Catalytic Oxidation
Adsorption
Absorption
Flares

Catalytic Oxidizers

SCR DeNox Plants

Scrubbers and Washing Towers

Adsorption in Activated Carbon

Elevated flares with open flame or enclosed flares

Mobile Gas Cleaning Systems

Thermal Oxidizers for Biogas & Bioenergy

Regenerative thermal oxidizers for the upgrading of biogas to biomethane

Oxidation plants of the residual methane in the off-gas, with removal efficiencies up to 99%, are fundamental to guarantee the sustainability of biomethane.
Post-combustion plants are made of two or more inert masses that alternately act as “pre-heaters” and heat “recovery” depending on the air flow direction over them. Heat recovery efficiency can be up to 97% and the heat produced by the methane oxidation, even in low concentration in the treated off-gas, allows the plant to reach a self-sustaining condition.

Direct thermal oxidizers

Direct oxidation of the gas to be treated in order to take advantage of the heating capacity of the pollutants.
The process is particularly convenient when the concentration of pollutants is high, and the residual heat of the cleaned gas can be reused in the production process. Direct thermal oxidizer is the most flexible and simple plant, which allows Plant Availability ≥ 98%.

Regenerative thermal oxidizers for CHP engines

Biogas Cogeneration is the combined production of electrical and thermal energy through an engine (powered by Biogas) connected to an electric generator.
Our post-combustion plants are applied either upstream of these engines, for the removal of C.O.V. or other pollutants found in Biogas, or downstream, for the after-treatment of exhaust gases and the complete oxidation of carbon monoxide, C.O.V. or residual methane.