PROGECO

ENGLISH VERSION

ISO 9001
BUREAU VERITAS
Certification

BIOGAS

Biogas treatment and combustion plants for:

- Waste water treatment plants
- Biomass plants
- Food industry anaerobic digesters
- Municipal solid waste landfills

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BIOGAS COMBUSTION FLARES

PROGECO has a long-term experience in the design, manufacture, supply and installation of equipment and systems for combustion and utilization of biogas produced in waste water treatment facilities, industrial water treatment plants, zootechnical anaerobic digesters, food industry.

Available biogas is usually stored in a gasholder, from which is sent to a suitable energy recovery plant (microturbines, reciprocating engines, boilers).
Safety flares provide combustion of biogas exceeding storage capacity, i.e. during maintenance of engines.

Product range:

- EMR and T series consist of open flare type safety flares (biogas flow from 50 to 700 Nm3/hr)

- HE series: enclosed-flare type (biogas flow up to 1000 Nm3/hr)

- HT series consist of flares operating with high combustion temperature (T=1200°C; nominal flow up to 1500 Nm3/hr)

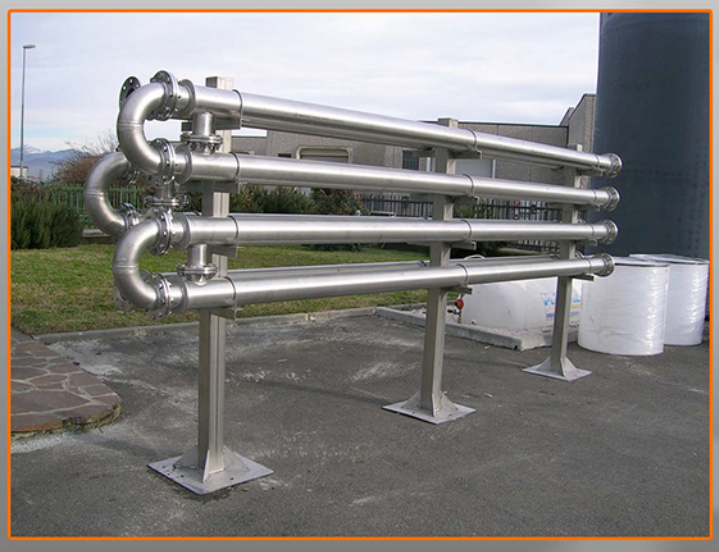
All PROGECO flares are characterized by ease of installation and operation; simple design and reliable equipment allow for low maintenance schedule and costs.

All flares can be equipped with biogas analysis instrumentation for typical application in biogas recovery units with cogenerating sets.

BIOGAS PURIFICATION

PROGECO offers a wide range of products and solutions for biogas treatment before utilization:

- condensate knock-out units
- flame arrestors
- gravel filters
- ceramic filters
- active carbon filters
- scrubbing units
- desulphurization units
- biogas dryers
- instrumentation for biogas analysis
- hot water / sludge heat exchangers
- siloxane removal equipment



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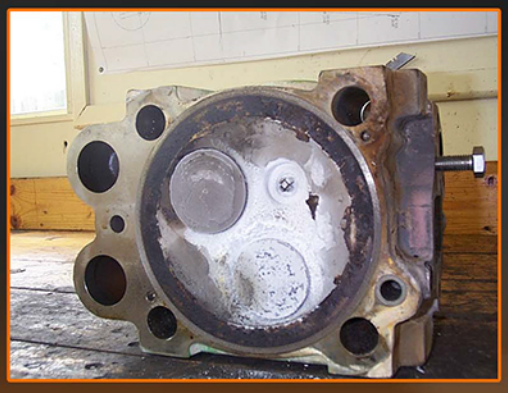

REGENERATIVE SYSTEMS FOR SILOXANE REMOVAL

PROGECO is specialized in the design, manufacture, supply and installation of equipment and advanced systems for biogas combustion and pre-treatment before utilization.
Our equipment and solutions are suitable for almost any application where biogas generated in anaerobic digestion processes needs purification before utilization for the production of electric and/or thermal energy.

The BGAK is an inline regenerative adsorption system that remover siloxanes from the biogas, allowing engines to operate deposit free and helping to reduce emissions.
Simple, compact, robust, self contained & regenerative, the system enables extended full-power operation, increased service intervals and payback within very short operating period.
The system is designed in order to reduce siloxane content down to less than 10 mg/m3.
The filtering media does not require replacement or maintenance; lifetime and performances of filtering media are guaranteed for 5 years.

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