eflox

FLOX® - Burners for Energy Technology

www.e-flox.de

eflox

e-flox GmbH is market leader in combustion of low calorific value (LCV) gas using FLOX® technology. It enables thermal treatment of small volumes of lean gases. FLOX® technology has been honored with the “Deutscher Umweltpreis” (German environment award) in 2011.

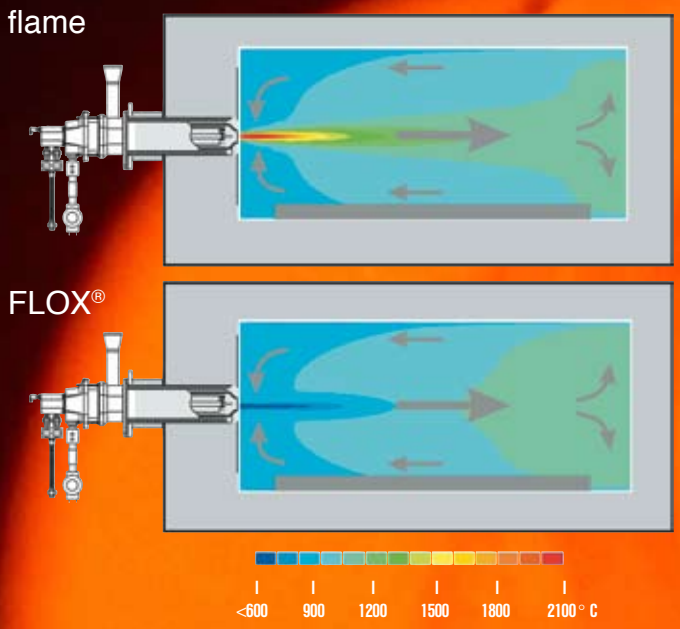
Advantages

- burner integrated heat recovery for off gases with low calorific value
- metallic and ceramic heat exchanger for a wide range of application
- complete combustion by high temperature oxidation
- no thermal NO_x
- high fuel flexibility (in quantity and quality)
- manifold waste heat utilization is possible
- to be mounted inside, outside, or container integrated
- customized burner development
- extremely robust combustion process without catalyst, ceramic bed, or flame holders etc.

Product line

Complete facilities:
- LCV combustion
- mini thermal post combustion
- landfill gas combustion
- producer gas combustion

Components:
- combustion chamber
- FLOX® burner
- waste heat recovery boiler
- peak load boiler
- heat storage tank
- gas buffer storage tank
- certified fuel gas compressors



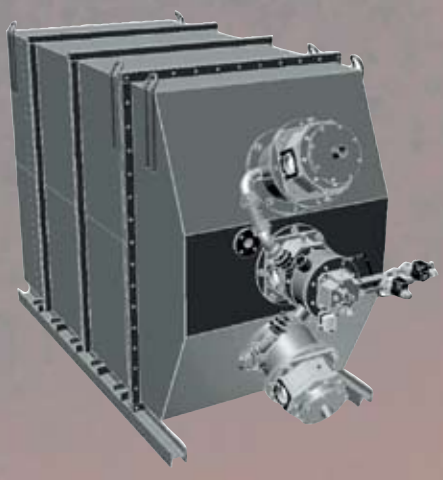
Types of burners

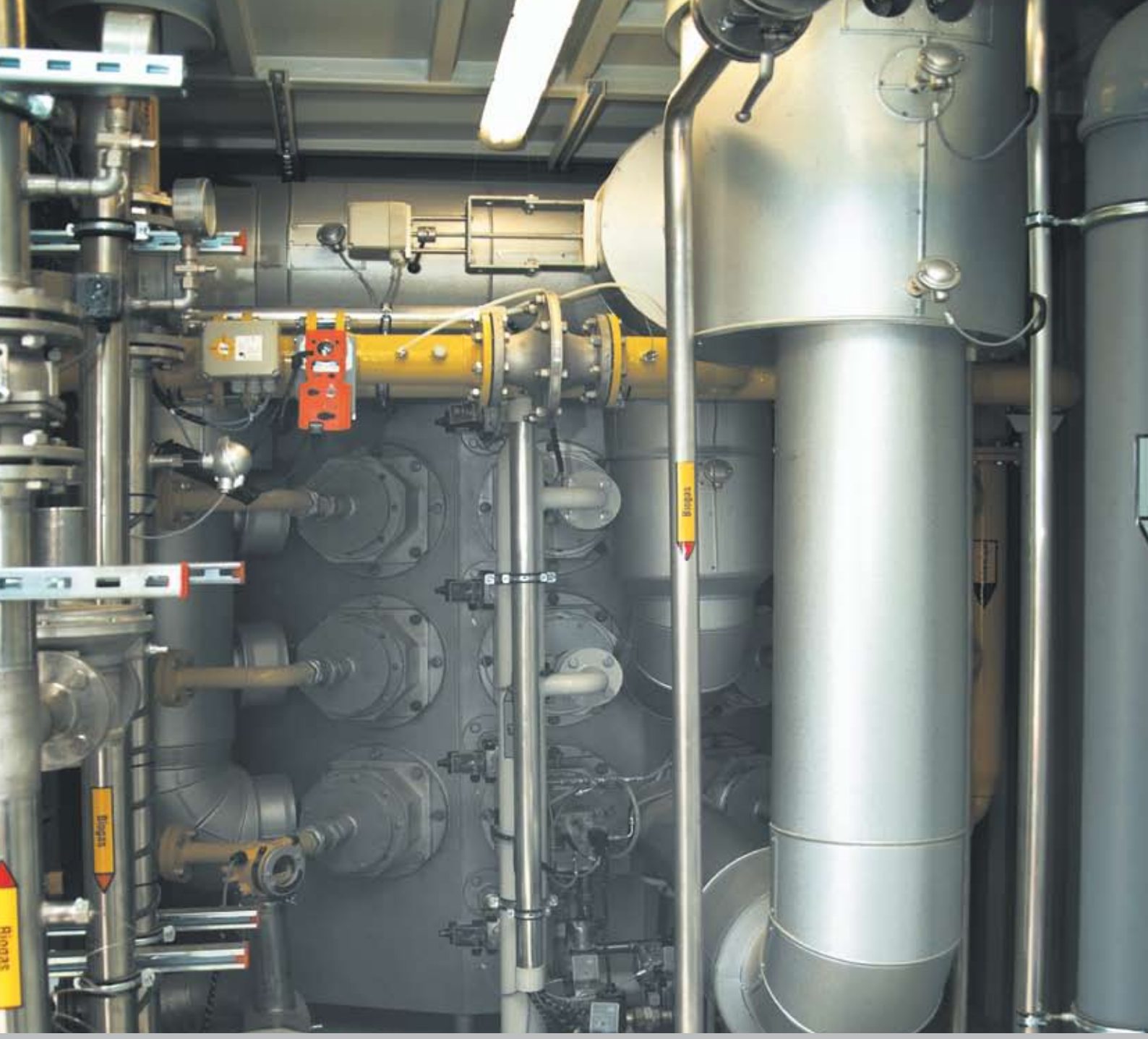


Characteristics	**Rekumat C**	**Rekumat M**	**Rekumat S**
heat exchange performance	medium	high	very high
authermal combustion point, CH_4 in CO_2 (approx.)	6 Vol%	3,6 Vol%	2,5 Vol%
authermal combustion concentration, CH_4 in air (approx.)	4,5 Vol%	3 Vol%	2 Vol%
chemical resistance	high	medium	medium
fouling tendency	low	low	medium
max. temperature of combustion	1200°C	1000°C	1000°C

Principle of FLOX® combustion

In FLOX® combustion the fuel gas burnes (oxidizes) without developing a visible flame. Flameless combustion (FLOX®) is defined as “stable combustion without flame and with defined recirculation of hot combustion products” (Wünning 2007). FLOX® combustion works for gaseous, liquid, and solid fuels. The number of the used burners depends on volume flow and required heat.





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Our services:

- development and engineering of new plants
- adaption of plants to the given infrastructure
- modification of facilities to FLOX®-technology
- plant commissioning on site
- maintenance and repair
- automatic control and optimization
- customized solutions
- consulting