



## MGP

### Modular Gas Plant

*Ready to use Modular Gas Plant  
for Landfill gas extraction*



# MGP

MODULAR GAS PLANT

## KEY FEATURES

- Burns safely and efficiently methane content of 30 -50 (% Vol)
- High-temperature combustion
- High safety standard
- Short installation time
- Minimal maintenance requirements
- Compact, safe and inexpensive

## GENERAL SPECIFICATIONS

Gas Flow Rate	: 40...5'000 Nm <sup>3</sup> /h
Burner Capacity upto	: 30'000 kW
Blower pressure rise	: 105...180 mbar
Methane Concentration	: 30 - 50 vol. %
Combustion Temperature	: 1'000...1'200 °C
Residence time	: > 0.3 s
Turn down ratio	: 1:5
Expected sound level at full load (at 15 m distance and 2 m height)	: < 69 dB (A)

## OPTIONS

- Higher blower pressure (for gas utilisation)
- Raw & Flue gas analyser
- Telemetry
- Visual data managemnt
- Containerized unit
- Turn down ration (1:10)

*Note: More options available on request*



Modular gas plants are compact units mounted on a robust skid that are ready for immediate use in landfills. The basic module comprehends a moisture knock-out pot, a blower, a flare with the latest safety devices and a completely automatic control system with PLC.

### “MGP” (Modular gas plant)

It is the basic modular unit designed to control emissions to limits in compliance with current legislation (TA-Luft), gas is burned in high temperature flare between 1'000 to 1'200° C with minimum retention time of 0,3 seconds and a burning efficiency of 99,99%.

### “MGP-UT” (Modular plant with gas utilization)

These modular plants are designed to

be installed in landfills where the gas is intended to be utilized in combined heat and power (CHP) engines or boilers. The blower provides a higher supply pressure than the conventional MGP and the system regulates the utilization of the gas in the CHP and burn the exceeding gas. These models can also be provided with gas treatment system to remove particles, moisture, Siloxanes or H<sub>2</sub>S from the landfill gas.

Depending on customer's requirement each model can be fitted with a frequency inverter, a gas analyzer, a gas flow meter, frost protection, container or data management system with telemetry to supervise and record all the performance parameters of the plant.



## SAFETY FEATURES

- EEx motor
- Flame arrester
- Slum shut valve
- Burner control device with UV-detection

## SITE PREPARATIONS

- Pre-dewatering
- Foundation
- Electricity supply
- Pipe line connection
- Condensate disposal







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