

Geothermal Flares



By flaring methane containing gasses, for example from geothermal projects, landfill sites and waste water treatment plants, large quantities of methane will not be released into the atmosphere. Methane is most harmful to the environment and increases the greenhouse effect.

Supply programme

Gastreatment Services (GtS) has three kinds of flare systems that we export worldwide. Our different flares are designed towards the capacity indicated by the Dutch emission regulations (NER). Standard procedure is that the ATEX, CE and PED regulations are observed. Due to the modular composition of the flare installations we can quickly construct our flares and put them into operation.

We provide all our flares with our own pilot burner which, due to reliability, we have developed ourselves. Due to the own design and manufacturing, GtS is able to deliver most spare parts from stock.

Test opportunities

- GtS is able to mix all biogases and to adapt the burners to the mixture.
- All flares plus the operating and ancillary systems are tested in the plant.
- The pilot burner and the related security measures have been tested under operational conditions.
- GtS flares may be equipped with a flow meter showing the current volume flow and the overall flow.



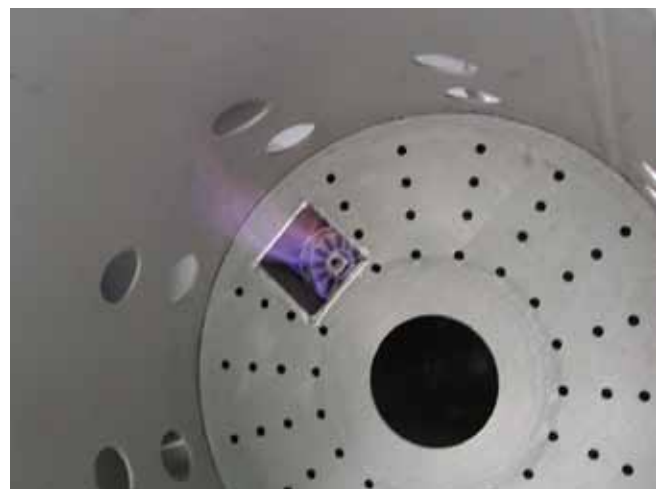
Open flare



NER-flare



ECO-flare



Plant test

The following flares are part of the range offered by Gastreatment Services:

Open flare

This type of flare serves as an emergency flare which only burns biogas in emergency situations, such as break-downs of or maintenance to the utilizing equipment. Unlike the other types, the flame of this flare is visible at all times.

GtS Type *	Connection	Flow (Nm ³ /hr)
GtS-OF-1	DN50	100
GtS-OF-2	DN80	230
GtS-OF-3	DN100	400
GtS-OF-4	DN150	900
GtS-OF-5	DN200	1500



NER-flare

This type of flare offers a permanent solution at locations within the Netherlands whereby the Dutch emission regulations (NER) must be satisfied, e.g. in the event that the flare due to low capacity of the utilizing equipment is in operation full time. This flare must comply with the requirement that the minimum retention time for the flue gases is 0.3 sec at a temperature of at least 900°C.

GtS Type *	Connection	Flow (Nm ³ /hr)
GtS-CF-NER-1	DN50	100
GtS-CF-NER-2	DN80	230
GtS-CF-NER-3	DN100	400
GtS-CF-NER-4	DN150	900
GtS-CF-NER-5	DN200	1500



Closed ECO-flare

This flare is used mostly outside the Netherlands, e.g. in the event that the utilizing equipment is not used enough or the gas is of poor quality. The flame is not visible.

GtS Type *	Connection	Flow (Nm ³ /hr)
GtS-CF-ECO-1	DN50	100
GtS-CF-ECO-2	DN80	230
GtS-CF-ECO-3	DN100	400
GtS-CF-ECO-4	DN150	900



* Larger or smaller models are available upon request, the ECO flare is limited to a maximum of 900 Nm³/hr.

Do you wish to submit a specific application, detailed specifications or do you simply have a query about our processes, products or services? Please contact our sales department: 0182-621890 or by email: sales@gtsbv.com.

More information about GtS and our products you find on our website: www.gtsbv.com.