

BIOFLEX Fermenter Heating Price List

valid from 01.04.2018



BIOFLEX

The effective fermenter heating system

Flexible, continuous and efficient corrugated piping system for safe heating of biogas fermenters

System benefits

- Flexibility thanks to the spiral corrugation
- Up to 100 % improved heat transfer compared with smooth-walled pipes
- Installation in long lengths without joints
- High-quality material: stainless steel 1.4404/SS 316 L

System description

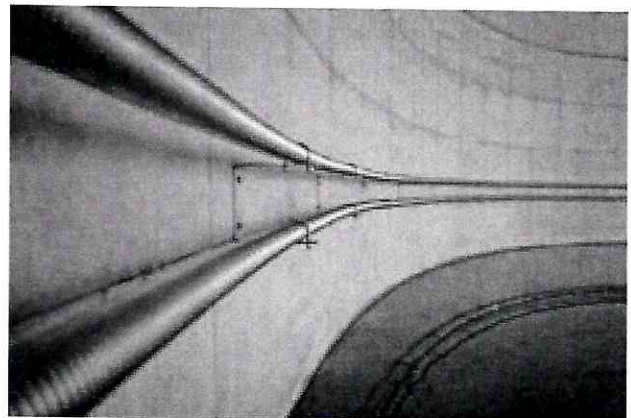
The BIOFLEX system is a safe and easy-to-install way of ensuring the gas production of your biogas plant through efficient heating of the fermenter.

The BIOFLEX corrugated pipe is the main component of this system, a flexible pipe made of stainless steel. The spiral corrugated structure and low wall thickness of 0.5 mm ensure a high level of flexibility, which allows BIOFLEX to be produced in „infinite“ lengths and to be installed in the fermenter without any joints (in one piece). This saves valuable working time and reduces installation costs.

The special shape of the corrugation generates an increased surface area (40 % more). Together with the high-quality material of the corrugated pipe (1.4404, SS 316 L), it increases the heat transfer via the fermenter heater by up to 100 % (compared with a conventional 2" stainless steel pipe).

Connection method

The connectors to the respective ends of the BIOFLEX pipes are fitted on site. Installation is flame-free, i.e. without welding or brazing, using a compression fitting. The corrugated pipe is sealed by special connectors (GRAPA-S) and connected to the heating system with a 2" screw connection.



There are two different options for pipes to pass through the wall:

a) connection outside the fermenter 1.800

The corrugated pipe is fed through the fermenter wall via a "pipe sleeve" and connected to the heating system outside the fermenter

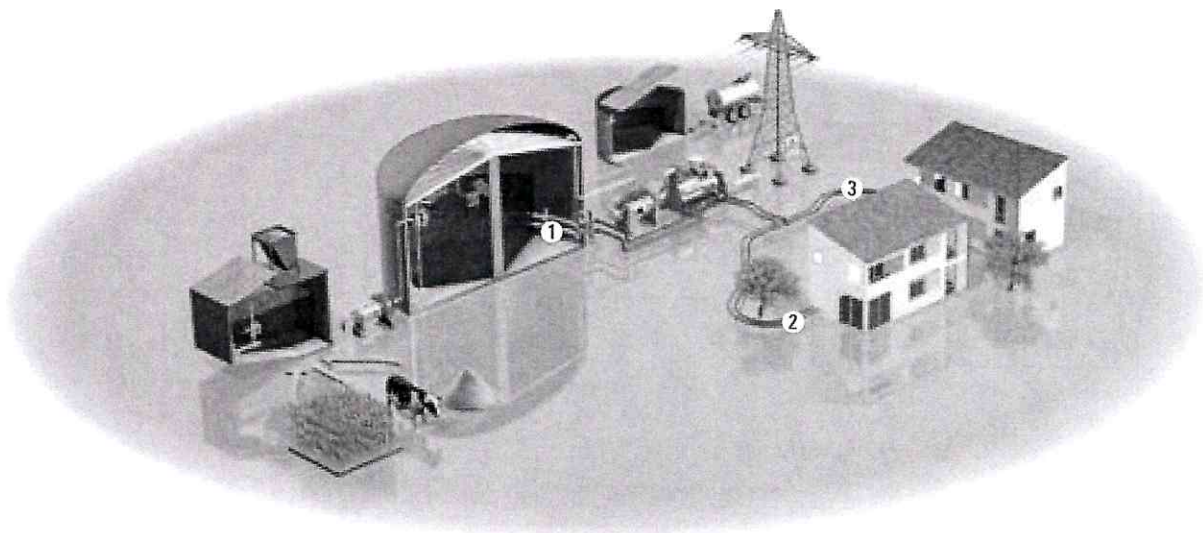
b) connection inside the fermenter 1.810

The corrugated pipe is connected to a wall duct inside the fermenter with a GRAPA-S connector



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System components for the generation and use of renewable energy



1 **BIOFLEX corrugated pipe**
BIOFLEX corrugated stainless steel piping is a safe and easy-to-install component that ensures the gas production of your biogas plant through efficient heating of the fermenter – infinite, flexible, highly efficient.



2 **CALPEX® heat-insulated pipe**
CALPEX® can be laid direct into the trench with a minimum of work. Connections in the ground can largely be dispensed with. Due to its pre-insulation, the pipe has a high insulation coefficient. The advantage: energy loss is kept to a minimum. The desired length is delivered on site in one piece in a coil. Grouted or screwed connectors.
Dimensions: DN 20 – DN 150



3 **Extensive district heating networks**
CASAFLEX® was specially designed for high-temperature applications. Its flexible metallic stainless steel medium pipe allows it to transport media with a temperature of up to 160 °C. Dimensions: DN 20 – DN 100

PREMANT® plastic-sheathed piping is specially designed as a mains pipe for large-scale district heating networks. The properties: high insulation coefficient and leak detection systems. Dimensions: DN 20 – DN 1000