SiGa-Tech
Sludge & biogas systems

Pressure increase station

Construction:

External container construction provides full separation for ATEX zone in PIS (pressure increase station) from other construcion facilities.

PIS housing is made from 100m thick sandwich slabs with EPS core (door thickness - 75mm).
All internal biogas installation are made from stainless steel.

Whole object is assembled before transport in workshop and is delivered as a complete unit or in two pieces.

Technology:

PIS is object designed to increase biogas pressure. For biogas pumping centrifugal devices are used; fans with flat characteristic, flexible for large range of required biogas consumption.
For protection fine filters before fans are used. Also, fans are mounted on vibration damping connections. In station pressure from suction and pumping side is measured, also there is a constant CH_4 and H_2S detection provided by a detector. Process lines can be switched automaticly or manually, in reference to choosen option or number of working fans.

- insulated container;
- flat characteristics centrifugal fans;
- fine filters protecting pumping devices;
- vibration dumping connections;
- automatic condensate removal.

Basic equipment:

- insulated container,
- biogas fans (min. 1+1),
- pressure gauge set,
- pressure converters: on suction & pumping,
- cut off fittings set,
- fine filters protecting pumping devices,
- CH_4 & H_2S detectors in station,
- biogas pipelines with by-pass,
- proximity detector in door,
- local electrical cabinet.

Options:

- temperature measurement on suction and pumping,
- automatic fan cut off,
- exhaust air fan,
- biogas flow measurement,
- stationary biogas composition analyser.

More options are available on request

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