



**EXTREMELY RELIABLE**

Continuous collection and removal of sinking contaminants from anaerobic digesters

**FITEC AUTOMATED FLOOR  
CLEANING SYSTEM**





## CLEANING OF DIGESTERS DURING OPERATION

The automated floor cleaning systems allows for the continuous collection and discharge of sinking contaminants from the digester floor. This system consists of a patented mechanical floor grit cleaner, a grit pump and a sediment (solid / liquid) separator.

## A COMMON PROBLEM IN ANAEROBIC DIGESTION PLANTS

Sediment enters from contaminated organic wastes and accumulates on the digester floor. This leads to sediment build up and the following problems:

- » A decrease in the effective digester volume (retention time) → biological problems
- » Damage to mechanical equipment like pumps, agitators, etc.
- » Downtime and expensive cleaning of digesters

### The SOLUTION: FITEC AUTOMATED FLOOR CLEANING SYSTEM

- » Sediment buildup is avoided by the regular and fully automated action of the double arm floor sweeper.
- » Maintains a consistent digester volume → stable biological system
- » Protection of mechanical equipment
- » Interruption free operation during the cleaning cycles of digester floors

### TECHNICAL DATA

#### of the FITEC floor grit cleaner

- » Suitable for digesters without a center column up to 18 m in diameter and 20 m in height
- » Suitable for operation in explosion zones.
- » Floor sweeper shaft is sealed gas tight up to 20 mbar
- » Driven by a slow-moving planetary gear box
- » Very low Power consumption: 0.55 kW, 60 Hz

#### of the FITEC sediment separator

- » Maximum sediment/grit content: 4.0 m<sup>3</sup>
- » Container dimensions (L x W x H): 5.7 m x 1.5 m x 3.6 m
- » Critical parts are made of stainless steel
- » Total weight: approx. 3,200 kg
- » Simple control and easily accessible

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## SINGLE COMPONENTS



Floor grit cleaner



Grit pump



Sediment separator

