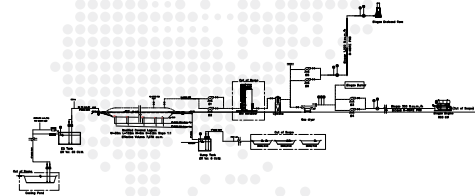


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Lagoon System

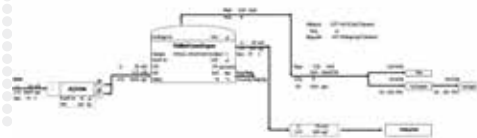


Key Attributes

- ✓ Low digestion rate
- ✓ Organic loading rate 2-3 kg COD/m³.day (Q=450-500m³/day & COD=80,000mg/l)
- ✓ Large land area required
- ✓ Operator skill required low
- ✓ Medium biogas storage
- ✓ HRT 30-45 Days
- ✓ Low investment cost
- ✓ Low operating cost



Tank System (UASB/CSTR)



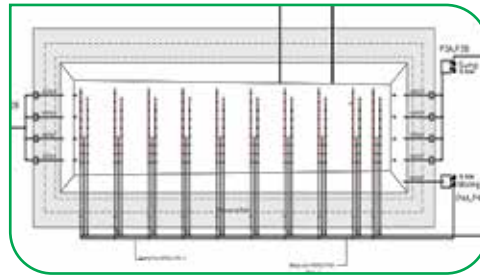
Key Attributes

- ✓ High digestion rate
- ✓ Organic loading rate 3-4 kg COD/m³.day (Q=450-500m³/day & COD=80,000mg/l)
- ✓ Small land area required
- ✓ Operator skill required moderate
- ✓ Low biogas storage
- ✓ HRT 15-30 Days
- ✓ Moderate to high investment cost
- ✓ Moderate to high operating cost

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Design Set Up for a Lagoon System for Biogas Generation



Essential Equipment for a Tank System for Biogas Generation

Mono Pump



Pressure Transmitter

Magnetic Flowmeter



Side Channel Blower

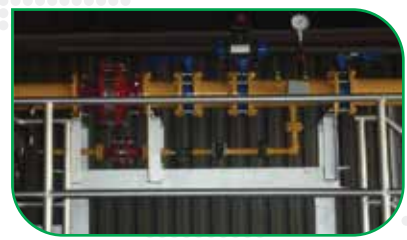
Biogas Burner System for Palm Oil Mill Boilers

Gas Burner Mounted to a Boiler



Gas Burner

Gas Burner in Operation



Gas Train



Display of Gas Train in SCADA

Gas Blower

