

Specifications:

Digester Model:

Avatar 1B29

> 1,400 Gallons/Day Capacity

> Plug Flow Type Mesophilic Anaerobic Digester

Site:

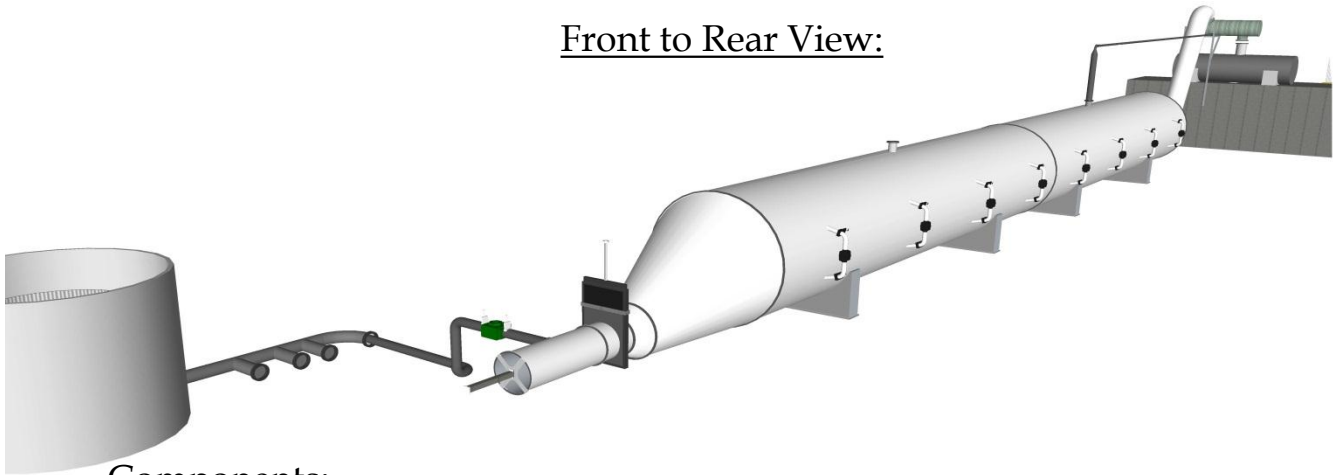
Location:

Host:

Herd Size:

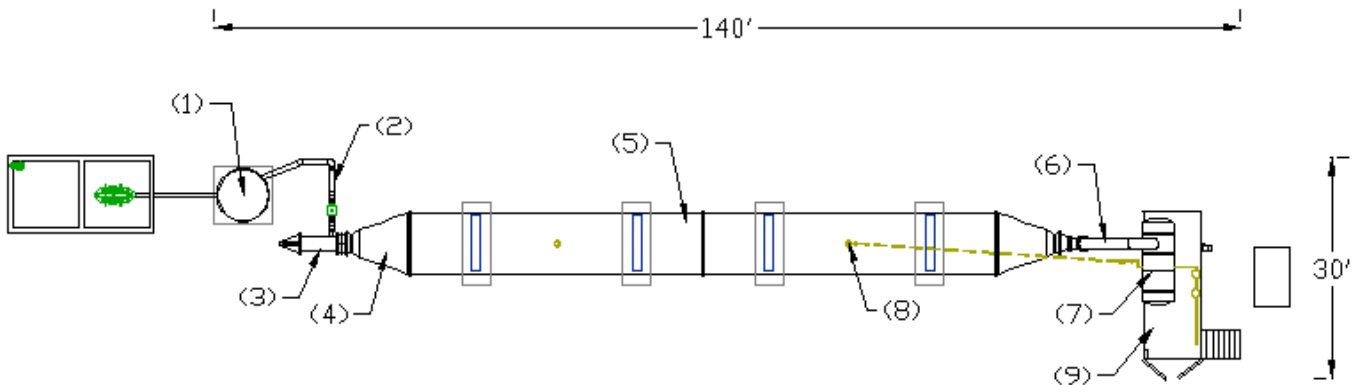
Reviewer:

Front to Rear View:



Components:

- | | |
|-------------------------------|--------------------------------------|
| 1. Injection / Heating Tank | 6. Inclined Tail Section |
| 2. Manure Intake Lines | 7. Effluent Collection Hopper & Tank |
| 3. Injection Pump | 8. Biogas Outlets |
| 4. Eccentric Reducer End Unit | 9. Shipping Container |
| 5. Tubular Hull Section | |



System Specifications:

AnD-1B29

Modular anaerobic digester with 1 digester hull. Calculations based on dairy manure only, other feedstocks will impact system specifications.

Digester Performance:

- **Digester Substrate:** Dairy manure plus appropriate co-digestion substrates
- **Plug Flow Retention Time:** 20 days
- **Feed Rate:** 1,400 gal per day
- **Digester Operating Temperature (internal):** min: 95°F, max: 105°F
- **Ambient Operating Temperatures:** 0°F to 120°F

Biogas Specifications:

- **Biogas Composition:** 60% methane, 40% CO₂, 1200ppm H₂S, trace NH₃
- **Biogas Energy Content:** 600 BTU per cuft
- **Approx. Production Rate:** 5,900 cuft biogas per day
- **Approx. Energy Production Capacity:** 13 kW continuous

Digester Dimensions:

- **Hull Dimensions:** Length: 98' (w/o injector pumps or tail sections), Diameter: 8'
- **Tail Section Dimensions:** Incline Angle: 60°, Height: 17' 2"
- **Overall System Length:** 140' (including heating and effluent tanks)
- **Digester Footprint:** 30' wide x 140' long.

**Shelter options available*

Utility Requirements:

- **Electricity:** Single or three phase (preferred)

