

Specifications:

Digester Model:

Avatar 2B58

- > 2,900 Gallons/Day Capacity
- > Plug Flow Type Mesophilic Anaerobic Digester

Site:

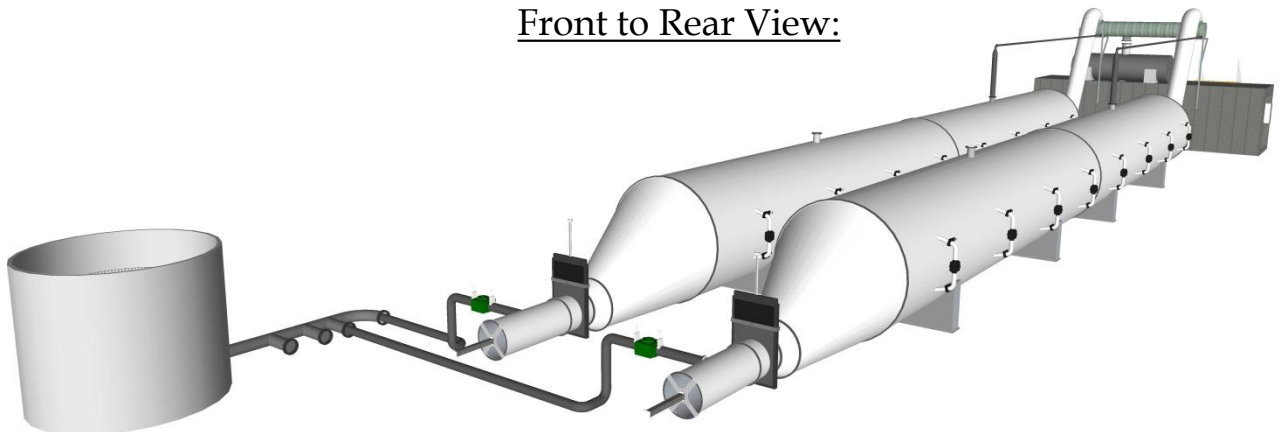
Location:

Host:

Herd Size:

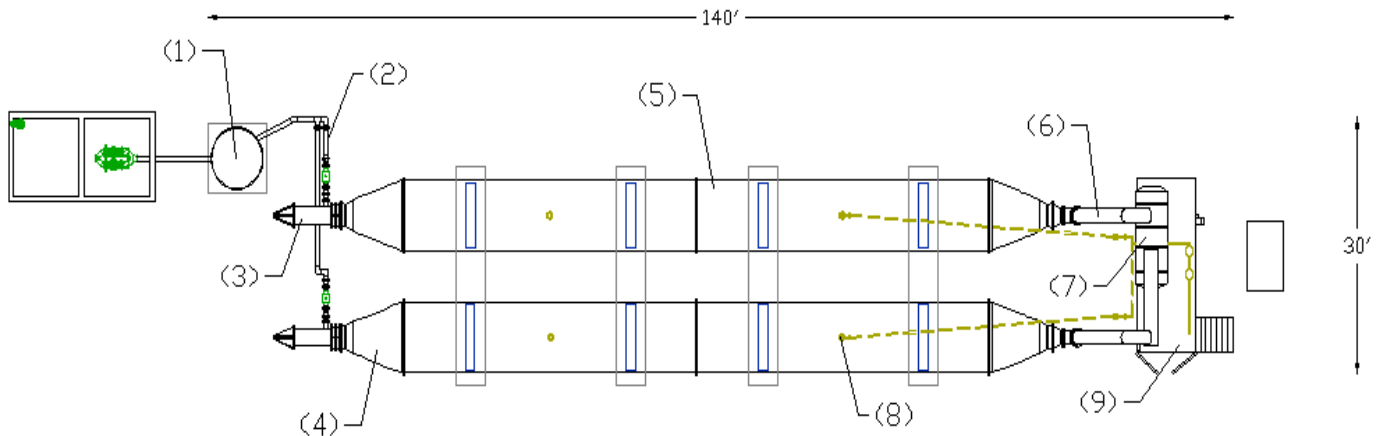
Reviewer:

Front to Rear View:



Components:

- | | |
|--|--|
| <ul style="list-style-type: none"> 1. Injection / Heating Tank 2. Manure Intake Lines 3. Injection Pump 4. Eccentric Reducer End Unit 5. Tubular Hull Section | <ul style="list-style-type: none"> 6. Inclined Tail Section 7. Effluent Collection Hopper & Tank 8. Biogas Outlets 9. Shipping Container |
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System Specifications:

AnD-2B58

Modular anaerobic digester with 2 parallel digester hulls. Hulls share heating/feed and effluent tanks. 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:** 2,900 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:** 12,000 cuft biogas per day
- **Approx. Energy Production Capacity:** 27 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.

**Shelters options available*

Utility Requirements:

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

The Avatar Anaerobic Digester

The manure is processed in the holding tank for 18-21 days. Methane gas rises and is collected above the sludge.

A heating coil is wrapped around the holding tank to maintain optimum temperature for manure processing and methane gas production.

The exterior of the digester hull is wrapped in waterproof insulation suitable for interior or exterior installation sites.

