



Model BE 18-80 Tissue Digester – Alkaline



- *80 lb per cycle loading capacity*
- *Siemens or AB PLC control system*
- *316 SS welded process piping with industrial grade valves and components*
- *100% non-proprietary components*
- *UL and CSA listed components*
CE also available
- *UL listed control system*

Tissue Digester - Alkaline Systems are BioSAFE Engineering's state of the art, environmentally friendly, technology for the sterilization and disposal of bio-hazardous waste. Our time tested and validated Alkaline Hydrolysis (AH) process ensures the highest Sterility Assurance Level of any bio-waste treatment system.

This technology is supported by US and international patents with applications in life sciences, agriculture, healthcare, and bio-defense fields. Our AH systems are the leading alternative to incineration for anatomic, biological, infectious, pathologic, and rendering wastes.

BioSAFE Engineering's Tissue Digesters are available with processing capacities of 11 lbs to 10,000 lbs per cycle.

BioSAFE provides project support:

- *From conception to decommissioning*
- *Design*
- *Installation*
- *Validation*
- *Training*
- *Preventative Maintenance*

Optional Upgrades:

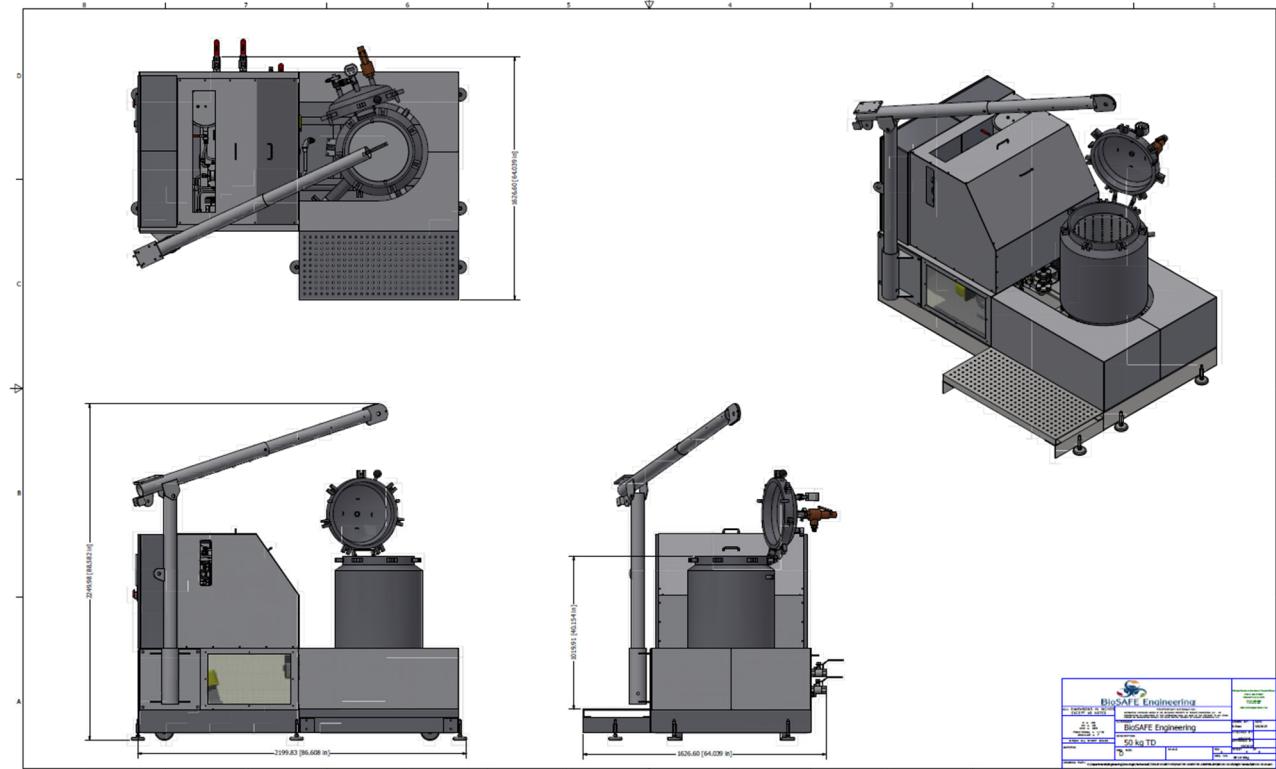
- *BSL-3 and BSL-4 compliant applications*
- *Processing chamber configuration*
- *Heat recovery*
- *Water reclamation*
- *Steam boiler*
- *Electric heating*



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MODEL BE 18-80 Tissue Digester - Capacity: 80 lbs per cycle

| | |
|------------------------|---|
| Operating Temp | 250° F - 302° F (121° C - 150° C) |
| Vessel Size | 18" Internal diameter |
| Control Cabinet | Siemens or AB UL / CUL/ CE |
| Vessel Characteristics | 316 SS wetted parts with manual locking lid, hydraulically locking and opening lid option available |
| Heating Method | Steam Jacket / Optional Electric heating |
| Safety Features | Safety relief valves, secondary safety PLC, and ergonomic design for maintenance and loading |
| Cycle Time | 6-8 hrs |
| Lid Type(s) | Manual or Hydraulic |
| Chemical Type | KOH or NaOH |



| CONNECTION | SIZE | REQUIREMENT |
|----------------|----------------------------------|--|
| Steam | 1" NPT/ DN-25 BSPT | 90 PSI Min 75 lb/hr / 6 bar Min 34 kg/hr |
| Condensate | 3/4" NPT / DN-20 BSPT | 75 lb/hr / 34 kg/hr |
| Water | 3/4" NPT / DN-20 BSPT | 40 PSI 20GPM Min / 2.5 bar 76 LPM Min |
| Drain | 1-1/2" NPT / DN-40 BSPT | |
| Compressed Air | N/A | N/A |
| Electrical | 480 V (other voltages available) | 25 KW |
| Chemical | 1/2" NPT / DN-10 BSPT | from chemical tank or tote |
| Ethernet | Open Internet connection | CAT 5E Minimum |
| Vent | To room | HEPA filter optional |
| CO2 | 1/2" NPT / DN-20 BSPT | Optional for pH adjustment |

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5750 W 80th Street • Indianapolis, IN • 46278 • 317-858-8099 • www.biosafeeng.com