



# BIO-SCRU® PILOT/DEMONSTRATION DRYER

## Specifications

### PROCESS DESCRIPTION

The Bio-Scru drying system contains all equipment necessary to safely and effectively convert sludge wet-cake to Class-A PFRP heat-dried biosolids meeting all the process- and product requirements of 40 CFR 503, Subpart D including >20 minutes retention time at >80°C and ≤10% moisture content.

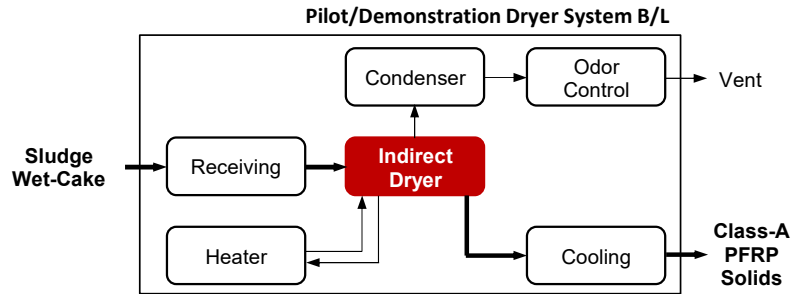
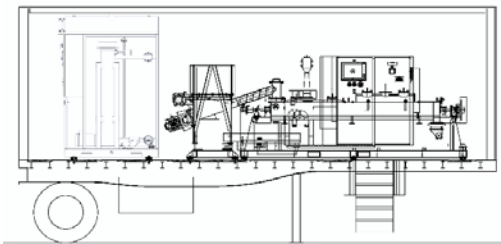
### SCOPE OF SUPPLY

#### MAJOR EQUIPMENT

- Dryer, Indirect, Twin Hollow-Flite Auger
- Feed Hopper/Paddle Mixer
- Feed Conveyor
- Thermal-Fluid Heater/Pump, Electric
- Condenser, 3-Stage Water Spray
- Odor Filter, Chemisorption
- Discharge/Cooling Conveyor, Water-Cooled
- Air-Lock Rotary Valve
- Control Panel w/PLC, HMI, VFD, UPS, Datalogger
- Water/Nitrogen Distribution Panel

### SPECIFICATIONS<sup>1</sup>

Model Name		Mobile Pilot
Model Number		HSD 7-8-3.1
Heat Exchange Area	ft <sup>2</sup>	56
Auger Diameter/Length	inches	7 X 96
Motor Power (Installed)	Hp	10
Electrical Power (Peak, Operating)	kW	69.0
Thermal Fluid (Paratherm NF)	gallons	41
<b>Dimensions and Weights:</b>		
Trailer Overall Length <sup>2</sup>	ft-in	25'-3"
Trailer Overall Width <sup>2</sup>	ft-in	8'-6"
Trailer Overall Height <sup>2</sup>	ft-in	13'-2"
Weight (Shipping)	lbs	21,100
Weight (Operating)	lbs	22,500

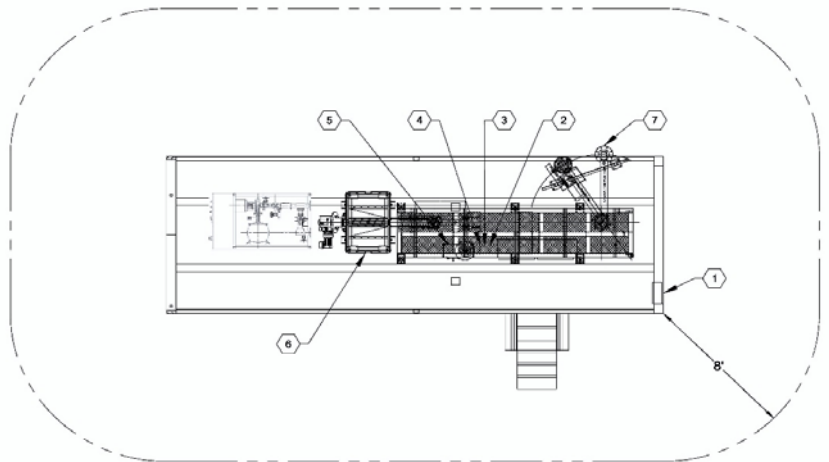


#### Utility Tiepoints<sup>4</sup>

1. Electricity: 460VAC/3-phase/60Hz, 150A, 3 wire + ground
2. Water: <12 gpm at 50 psig, filtered, 3/4" GHT hose
3. Drain: <12 gpm, gravity, 2"x50' PVC suction hose
4. Nitrogen: <60 SCFH at 75 psig, 1/4" hose, tubing connections
5. Vent: 60-100 SCFH NCGs at -0.3"WC, 4" flex hose (if required)

#### Process Tiepoints<sup>4</sup>

6. Wet-cake: 50-200 lbs/hr, manual hopper fill
7. Dry solids: 10-50 lbs/hr, product container by customer



### NOTES

1. Standard BCR specifications; subject to change without notice.
2. All dimensions/weights approximate. Allow 8-foot clear perimeter around trailer for operation and maintenance access.
3. Site requirements: Level concrete or asphaltic concrete slab, 24' x 41', with process drainage and containment.
4. Peak rates based on 18%DS wet-cake and 90%DS product; actual results may vary depending on MC, HEM, VS & fiber content(s).
5. 125' 4-wire SOOW cable provided; switchable/main-breaker provided by Customer; optional rental generator.

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