

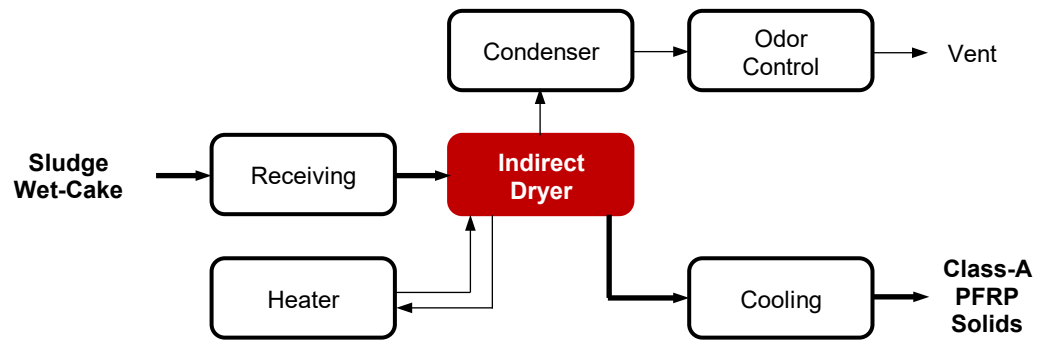


BIO-SCRU™ DRYER SYSTEM

Specifications

PROCESS DESCRIPTION

The Bio-Scru drying system is 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

STANDARD MAJOR EQUIPMENT

- Dryer, Indirect, Twin Hollow-Flite Auger
- Feed Hopper, Live Bottom
- Feed Pump, Progressive Cavity
- Thermal-Fluid Heater, Gas Fired
- Condenser, 3-Stage Spray
- Odor Filter, Chemisorption
- Discharge Conveyor
- Cooling Conveyor, Water-Cooled
- Air-Lock Valves (Knife-Gate + Rotary)
- Control Panels (PLC, HMI, VFDs)
- Nitrogen Generator



TYPICAL SPECIFICATIONS¹

Model Name		IC-150	IC-800	IC-1800	IC-3600	IC-5400	IC-7000	IC-10000	IC-12000
Model Number		HSD07	HSD13	HSD18	HSD30	HSD36	HSD40	HSD48	HSD48
Heat Exchange Area	ft ²	55	227	473	1199	1788	2124	2754	3346
Auger Diameter	inches	7	13	18	30	36	40	48	48
Overall Length ²	ft-in	14'-5"	23'-2"	30'-7"	39'-0"	45'-5"	46'-0"	46'-9"	55'-4"
Overall Width ²	ft-in	4'-0"	3'-2"	4'-5"	6'-2"	7'-7"	8'-1"	9'-0"	9'-0"
Weight (Shipping)	klbs	2.6	11	22	55	78	95	110	130
Weight (Operating)	klbs	2.9	12	24	60	93	145	175	207
Dryer Motors ³ (Installed)	Hp	1.5	3	6	10	15	15	30	30
Electrical Power (Operating)	Hp	13.4	59.7	75.7	89.8	110.8	135.7	163.7	0.0
Thermal Fluid Fill	gallons	60	120	210	515	1010	1490	1970	2100
WAS Only	Capacity-	2.0	10.5	23.6	47.2	70.8	91.8	131.1	157.4
WAS w/ Primary	WTPD @	1.7	9.3	20.8	41.7	62.5	81.0	115.7	138.9
Aerobically Digested	20% TS	2.3	12.3	27.8	55.5	83.3	108.0	154.3	185.1
Anaerobically Digested	Feed	2.2	11.7	26.4	52.8	79.1	102.6	146.6	175.9
WAS Only	Capacity-	0.5	2.6	5.9	11.8	17.7	23.0	32.8	39.3
WAS w/ Primary	Average	0.3	1.8	4.0	8.0	12.0	15.6	22.3	26.7
Aerobically Digested	MGD⁴	0.7	3.8	8.6	17.2	25.8	33.5	47.9	57.4
Anaerobically Digested	Capacity	0.8	4.0	9.1	18.1	27.2	35.2	50.3	60.4

NOTES

1. Standard BCR specifications; subject to change without notice; excludes freight, taxes, bond, installation, commissioning, testing.
2. Dryer only, all dimensions/weights approximate.
3. Two motors/dryer; excludes ancillary equipment motors
4. The capacity calculation is based on a dryer operating 24 hours/7 days per week. We assume dryer availability is 50 weeks/year.

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