

WATROPUR

Sludge dryer

WATROMAT® low temperature batch and continuous drying systems



WATROMAT® 200 dry air generator with sludge container (evaporative capacity 200 l; 440 lbs/day water)

■ Features and Benefits

The WATROMAT® low temperature drying system is designed to dry sludge produced by either a plate and frame filter press, a belt filter press, a centrifuge or some similar device. The sludge cake is dried by the injection of recycled, warm, dry air. The saturated air which comes off the top of the sludge container is passed over refrigerated coils, where the moisture is removed, and then reheated prior to injection into the container. That closed loop drying process eliminates emissions to the air and the burden of EPA air permits.

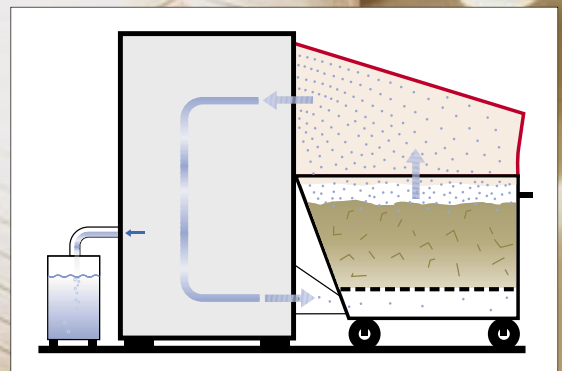
■ Features:

- Dried sludge only contains 10% water
- Operating temperature of the process is a maximum of 86 degrees F (30 degrees Centigrade)
- Electrical usage is only 150 Watts per pound (330 Watt/l) of water removed
- No emissions to surrounding atmosphere
- Ruggedly built

■ Benefits:

- Lower disposal charges for solid waste
- No air permits
- Employee exposure to dust and processing vapors is virtually eliminated
- Rapid payback of capital investment

WATROMAT® 1600 dry air generator with sludge container (evaporative capacity 1600 l; 3600 lbs/day water)



■ The product

The WATROMAT® sludge drying plants are designed and built from WATROPUR. The low temperature drying technology WATROMAT® typically cost 50-70% less to own and operate than conventional thermal drying systems. WATROMAT® dryers are more compact, and pack more performance into less space. A standardized, cost effective product line of dry air generators covers evaporation loads from 5.5 to 3300 pounds per hour of water (2.5 to 1500 l/h). They can be integrated into existing „filterpress in container unloading“ applications. Continuous belt tunnel dryers handle the sludge extremely gently and are optimal for biological sludge.

Type	Evaporative capacity	Energy power	Dimensions (L / B / H)	Dimensions (W / D / H)
dry air generator	water/day	kW/h	[m]	[inch]
WATROMAT® 50	50 l; 110 lbs	1.6	0.67/0.98/1.44	27/40/58
WATROMAT® 100	100 l; 220 lbs	2.6	0.67/0.98/1.44	27/40/58
WATROMAT® 200	200 l; 440 lbs	4.6	0.98/1.29/2.04	40/52/76
WATROMAT® 400	400 l; 880 lbs	7.0	0.98/1.29/2.04	40/52/76
WATROMAT® 600	600 l; 1320 lbs	9.9	1.29/1.91/2.04	52/76/76
WATROMAT® 800	800 l; 1760 lbs	12.6	1.29/1.91/2.04	52/76/76
WATROMAT® 1200	1200 l; 2700 lbs	20	1.29/2.67/2.04	52/101/97
WATROMAT® 1600	1600 l; 3600 lbs	26	1.29/2.67/2.04	52/101/97
WATROMAT® 2000	2000 l; 4500 lbs	33	1.60/3.90/2.04	64/150/97
WATROMAT® 2400	2400 l; 5400 lbs	40	1.60/3.90/2.04	64/150/97
WATROMAT® 3000	3000 l; 6750 lbs	50	1.63/4.50/2.79	64/180/112
WATROMAT® 3600	3600 l; 7900 lbs	60	1.63/5.12/2.79	64/205/112
WATROMAT® 4800	4800 l; 10600 lbs	80	1.94/5.74/3.20	78/230/128
WATROMAT® 6000	6000 l; 13200 lbs	100	1.94/6.36/3.20	78/254/128
WATROMAT® 8000	8000 l; 17600 lbs	133	1.94/6.36/3.20	78/254/128
WATROMAT® 10000	10000 l; 22000 lbs	166	2.25/5.66/3.20	90/226/128
WATROMAT® 15000	15000 l; 33000 lbs	250	2.25/6.28/3.20	90/251/128
WATROMAT® 20000	20000 l; 44000 lbs	333	2.25/6.90/3.20	90/276/128
WATROMAT® 25000	25000 l; 55000 lbs	420	2.25/7.52/3.20	90/300/128
WATROMAT® 30000	30000 l; 66000 lbs	500	2.25/8.14/3.20	90/325/128

WATROMAT® 6000 dry air generator with sludge container 30 m³; 840 ft³ (evaporative capacity 6000 l; 13200 lbs/day water)



WATROMAT® 20000 dry air generator with continuous belt tunnel dryer (evaporative capacity 20000 l; 44000 lbs/day water)



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■ The company

Founded in 1992 WATROPUR manufactures low temperature drying plants for industrial and biological waste water treatment sludges. More than 450 drying plants in over 30 countries have been commissioned through the WATROPUR sales network in the first ten years.

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