

Features

Waste Disposal Cost Reduction

- ✦ Equipment payback is typically under two years
- ✦ Average annual savings of nearly 60%
- ✦ Waste volume reduction from 2:1 to 5:1
- ✦ Solids dried up to 75%

Easy to Use

- ✦ Fully automatic processing cycle
- ✦ PLC touch screen with fault alarms
- ✦ Modulating gas control system and extruder
- ✦ Electronic ignition
- ✦ External access to high-temp bearings

High Quality, Safe, & Cost-Effective

- ✦ Stainless steel construction of all wetted internal components
- ✦ Oversized extruder gearbox with AC drive
- ✦ Energy efficient infrared heaters
- ✦ Utilizes natural gas or LP

Designed for volume and weight reduction of metal hydroxide plating waste



The M.W. Watermark Continuous Sludge Dryer reduces disposal costs by further dehydrating dewatered filter cake

Parts / Service

M.W. Watermark can supply replacement parts for your sludge dryer's heating system. We also offer expert aftermarket support for other brands of dryers.

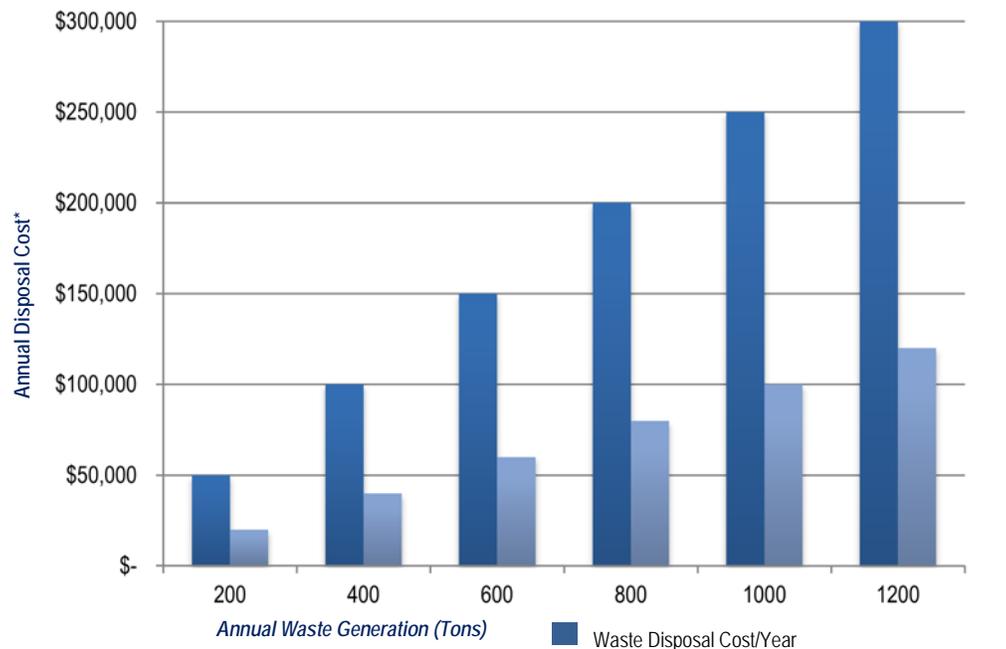
M.W. Watermark

M.W. Watermark is a leading supplier of water and wastewater equipment, parts, and service. We serve both industrial and municipal markets globally.

Our team strives to provide unmatched service and value to customers, helping reduce their costs while keeping the environment clean.

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Waste Disposal Cost Comparison



*Based on \$250/Ton waste disposal cost and 30% solids filter cake being dried to 75%

M.W. Watermark Continuous Sludge Dryers are typically used in conjunction with or “mated up” with a filter press dewatering metal hydroxide slurries from metal plating operations. Liquid slurry is pumped into the filter press. When the filter press cycle is complete the press is opened up and the filter cake is discharged. The filter cake looks and feels like a solid, but may be only 30% solids. These cakes can be dried up to 75% with the M.W. Watermark Continuous Sludge Dryer.

Sludge Dryer Loading

The receiving hopper (A) is filled from the drums or dumpsters that are used to transport filter cake from the filter press to the dryer.

Filter Cake Extruding

The extruder system (B) processes filter cake which has been reduced in size in the receiver hopper. The wiper blades extrude the filter cake through perforations in the stainless steel screen (C). This produces noodle-shaped particles with increased surface area for drying. The extruded material falls onto a continuous stainless steel mesh conveyor for passage under a series of infrared heat drying elements (D).

Filter Cake Drying

All heating energy for M.W. Watermark dryers comes from infrared heating elements. Heating energy options include natural or LP gas. Ambient air is drawn through the heat chamber by the fan mounted on the inlet of the wet scrubber (E). Temperature is monitored by a probe located between the air discharge from the dryer and the scrubber.

Waste Disposal

As the material reaches the desired reduction (dryness), the dry, granular material exits the unit into a bag, barrel, or dumpster for disposal.

Air-Handling

Every M.W. Watermark Continuous Sludge Dryer is supplied with a single speed, Venturi-style wet scrubber (E). All exhaust air from the unit enters the scrubber where an atomized stream of water removes any particulate matter. The 2-4 GPM blowdown stream is routed to the head of the waste treatment system. The blower, mounted on top of the scrubber, provides all of the process air movement through the entire system.

*Note: Both control panel and scrubber can be configured on either side of the dryer.

Fig.1- Top View

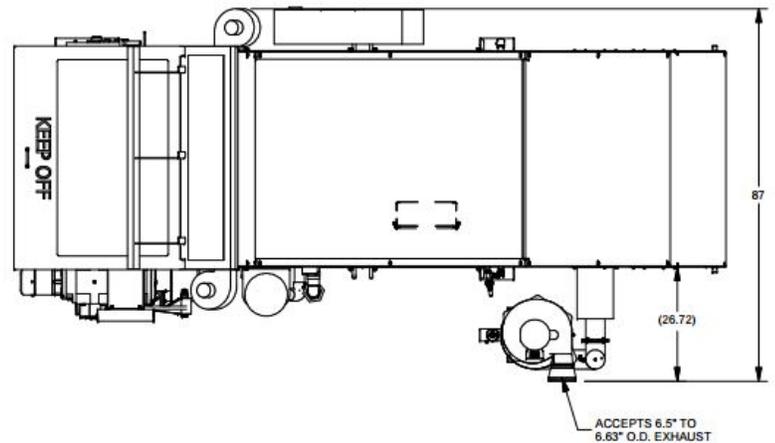
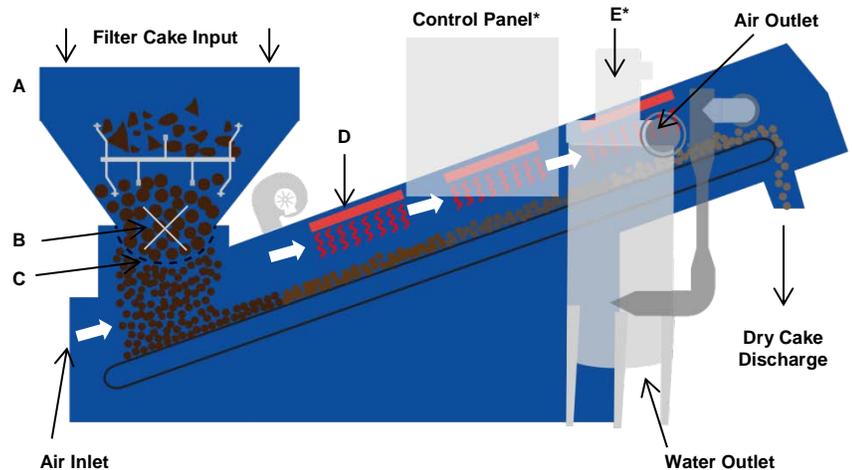


Fig. 2



SLUDGE DRYER SPECIFICATIONS	DM-200G	DM-380G
Heat Source	Gas	Gas
Working Capacity Water Removal Rate**	94# Water / Hour	188# Water / Hour
Power Requirements 480V 3Ø 60CY	10A	15A
Burner Rating	200,000 BTU	400,000 BTU
Maximum Gas Consumption Natural LP	200 CFH 1.9 GPH	400 CFH 3.7 GPH
Scrubber Water Usage @50psi	2 GPM	4 GPM
Scrubber Drain	2" NPT Gravity Drain	
Length	160"	167"
Width	74"	87"
Height	78"	84"
Weight	3,962 lbs.	4,500 lbs.
Std. Hopper Capacity	13 ft ³	17 ft ³
Exhaust Air CFM	275	325
Materials of Construction	304SS & Carbon Steel	
**Based on 2,125 BTU to remove 1 pound of water. BTU requirements vary per application.		