

HydroCal



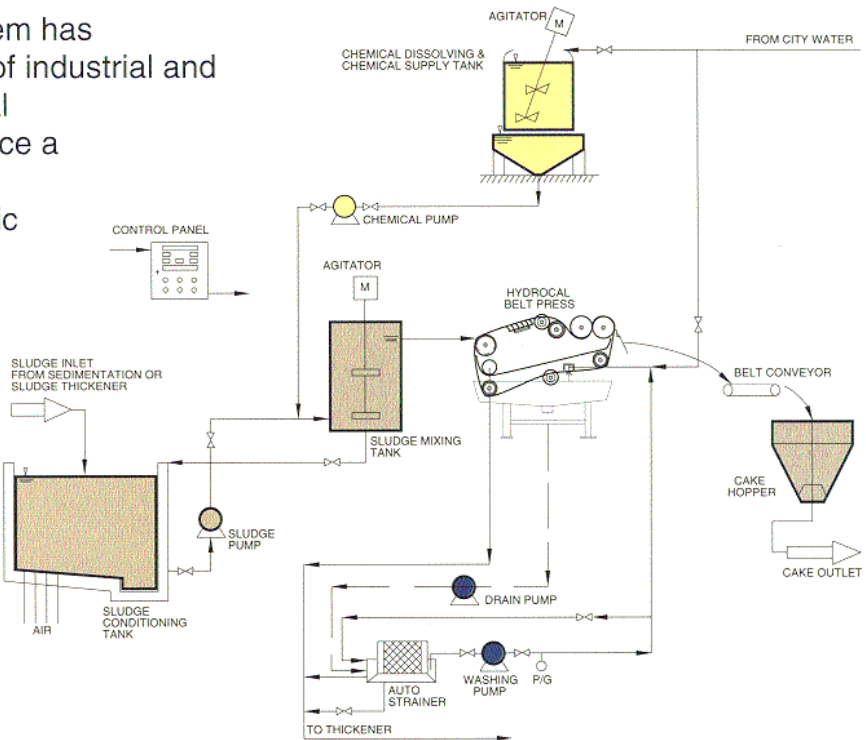
Fiberglass Belt Press

The Product of Innovative Engineering

The HydroCal Fiberglass Belt Press treats and dewateres liquid sludge to produce a thick sludge cake with "no flow" characteristics and greatly reduces volumes for disposal for Industry as well as small to medium sized Communities.

HydroCal's innovative press has been tested and perfected for over more than a decade. From the design of roller surfaces to the well researched and proven body shape, the HydroCal press is truly state-of-the-art technology.

The HydroCal Fiberglass Belt System has successfully dewatered a wide variety of industrial and municipal slurries and sludges with total solids ranging from 0.5% - 5% to produce a sludge cake with a total solids content ranging from 12% - 42%. The volumetric capacity of a unit depends on the total solids content and dewatering characteristics of each sludge, but in all cases a thickened, dried cake of "no flow" quality will be produced. The press can dewater up to 40 gpm (9 m³/hr.) with a solids recovering efficiency of 98%.



Sludge Dewatering

HYDROCAL PRESS RESULTS				
Type of Sludge	Sludge Concentration (%)	Sludge Feed Rate		% Solids in Dewatered Cake
		(m ³ /hr)	(gpm)	
Domestic Primary	3 - 5	1 - 5	4 - 22	18 - 22
Domestic, 70% Primary + 30% Secondary	3	4	18	18 - 20
Domestic, Activated	0.5 - 5	1 - 9	4 - 40	15 - 20
Domestic, Anaerobic	3 - 5	1 - 4	4 - 18	15 - 20
Meat Processing, Activated	2 - 4	2 - 5	9 - 22	20 - 25
Dairy, Activated	0.5 - 2	2 - 4	9 - 30	15 - 18
Paper Waste	0.5 - 5	1 - 9	8 - 60	20 - 45
Mixed Industrial, Activated	1 - 3	2 - 4	9 - 18	18 - 20

* All numbers are approximate and are dependent on both solid characteristics and its concentration.
 ** Polyelectrolyte concentration will vary between 5 - 100 ppm.

Compact:

140 ft² (13m²) required space

Efficient:

automatic start up
operates on 0.37 kW / hour

Economical:

low cost
low maintenance

Flexible:

variable speed
optional mobile unit

Digested primary sludge • Aluminum sludge • Primary activated sludge • Domestic activated sludge • Primary screening • Industrial activated sludge • High rate filtration sludge • Agriculture sludge • Humus & digested humus sludge • Cattle slurry • Pig slurry • Chicken manure • Dairy Industry sludge • Paper Pulp Industry sludge • Food Industry sludge • Brewing Industry sludge • Meat Industry sludge • Pharmaceutical Industry sludge • Chemical Industry sludge
 Please call for a verification of applications not listed above.