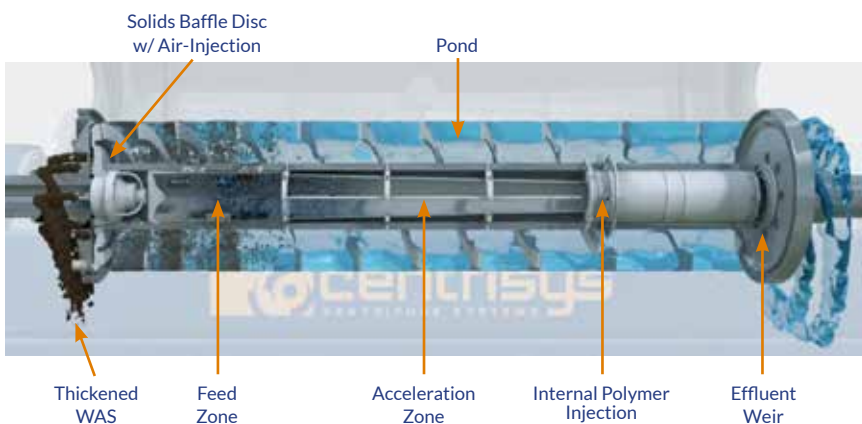




The Most Efficient Solution to Thicken Sludge

Centrisys Sludge Thickener

The Centrisys Sludge Thickener (THK Series) is specifically engineered to achieve high-performance thickening of biosolids. The non-conical design results in greater G-volume, allowing for the highest capacity of flow to the centrifuge. The THK improves upon existing technologies using fundamental principles of a 1) Centrifuge - 3,000 Gs, 2) Rotary Drum Thickener - fully enclosed and small footprint, 3) Dissolved Air Flotation (DAFT) - air injection. The patented Hydro-Pneumatic design has proven that NO polymer is required under normal conditions (150 SVI).



- No-Conical = greater comparative capacity
- Proprietary hydro-pneumatic control of cake solids
- Independent control of liquids and solids weir
- Greater G-volume
- Proprietary internal polymer injection system (optional)
- Highest grade materials of construction
- Proprietary tungsten carbide wear plows for grit and trash

Typical Applications

- Primary sludge
- Secondary (waste activated) sludge
- Oxidation ditch sludge
- Digested sludge
- MBR (membrane bioreactor) sludge
- Dilute pulp and paper waste prior to dewatering
- Concentration of food processing waste
- Concentration of algae
- Concentration of yeast

Features

- Proven no polymer required under normal conditions (150 SVI)
- Smallest and most efficient footprint for given flow rates compared to gravity belt and rotary drum thickening technologies
- Contained vapor system
- Expected ROI of 2.5 years due to polymer savings alone
- Reduced operating and maintenance costs
- 50% less power consumption compared to standard dewatering centrifuges
- Reduced installation costs by 35-50% (\$/gpm)
- Simple to operate with minimal operator attention

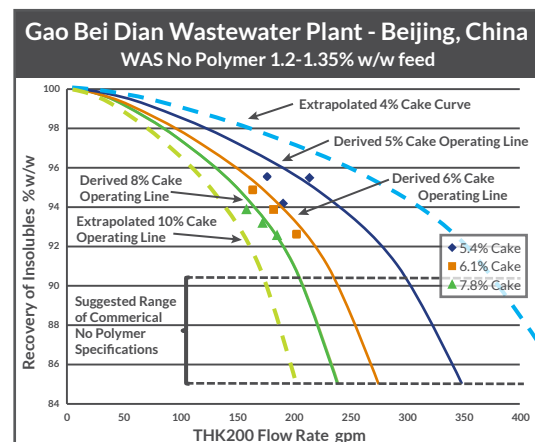


Thickening Solutions: USA Built, Sold & Serviced Around the World



Sludge Thickener THK Series								
	THK100		THK200		THK350		THK600	
	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average
Feed Flow Rate w/o Polymer* gpm	60	45	180	125	320	265	765	640
Feed Flow Rate w/ Polymer* gpm	150	105	250	200	500	425	1,100	800
Approx. Bowl Diameter in (m)	14 (0.36)		18 (0.45)		21 (0.53)		26 (0.66)	
Total Static Weight - Empty lbs (kg)	3350 (1,520)		5,000 (2,950)		10,800 (4,900)		27,000 (12,250)	
Standard Main Drive HP	25		50		75		150	
Standard Scroll Drive HP	10		10		15		25	
Standard Total Installed HP	35		60		90		175	
G-volume Capacity at 3,000 G gal	80,000		160,000		332,000		718,000	

Sludge Thickener THK Series Performance		Waste Activated Sludge (WAS)	WAS/Primary Blend
No Polymer Specific Power** kW/gpm	Minimum	0.07	0.08
	Maximum	0.18	0.19
	Average	0.12	0.15
Polymer Specific Power** kW/gpm	Minimum	0.05	0.05
	Maximum	0.15	0.18
	Average	0.08	0.10
Average Solids Recovery % wt./wt.	w/o Polymer	93	90
	w/ Polymer	99	97
Average Cake Solids % Total Solids	w/o Polymer	4 to 7	
	w/ Polymer	5 to 10	



*Values are approximate for Influent Solids of 0.5% to 1.5% WAS. **Specific power estimations are for normal flows. Contact Centrisys for project-specific calculations.

Questions about Centrisys technologies?

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