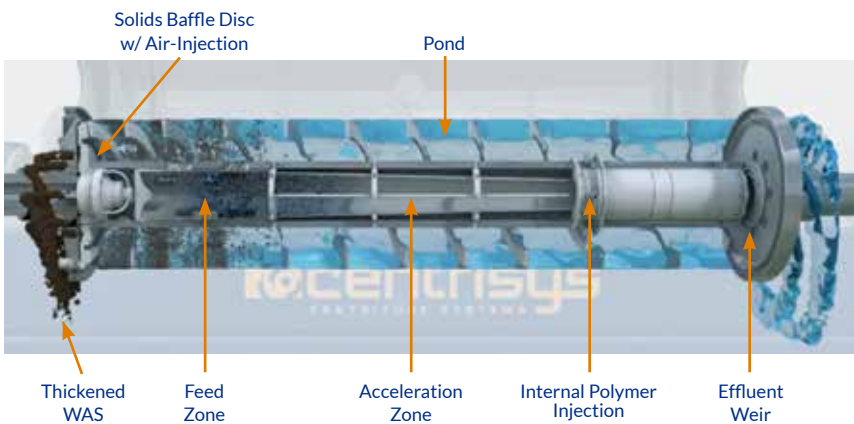




The Most Efficient Solution to Thicken Sludge

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

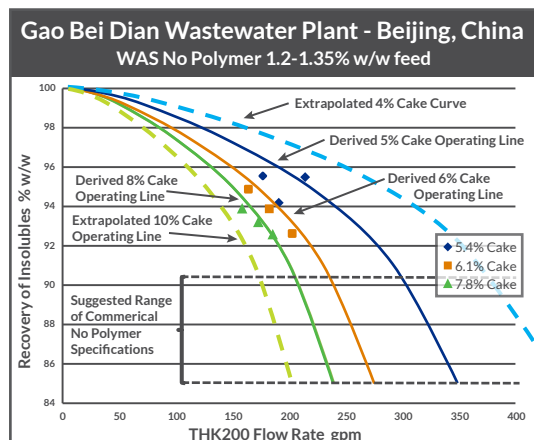


Thickening Solutions: USA Built, Sold & Serviced Around the World



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