



Throughput: up to 400 GPM/unit



Operation: simple,
maintenance-free

Hycor[®] ThickTech Rotary Drum Thickener

The Hycor[®] ThickTech Rotary Drum Thickener (RDT) is a sludge thickening system that is setting new standards for volume reduction. The thickener commonly reduces sludge by 90% with a 98% capture rate. The ThickTech system is quite compact and requires less floor space than other thickeners. It is economical to operate with low horsepower and water consumption.

The ThickTech RDT increases digester capacity, reduces hauling costs and can be used as a pre-thickener to increase capacity of other dewatering equipment. The patented ThickTech system is performance proven for applications in municipal water and wastewater treatment plants, industrial facilities and pulp and paper mills. It is fabricated of stainless steel and engineered to provide years of reliable service.

The system utilizes a low shear floc tank, followed by dewatering with a high performance rotary drum screen.

Low Shear Flocculation

The ThickTech system is designed to achieve flocculation with a minimal amount of expensive chemicals. The floc tank has tangential inlet and outlet openings to maximize flocculation by reducing shear from turbulence. This design creates a gentle swirl that combines the sludge with the polymer. This swirling motion also increases the overall sludge detention time for floc development. A specially designed impeller maintains the swirl without breaking down the flocs.



High output solids content

Staged Dewatering Through Screening

Dewatering takes place along a multi-zone drum cylinder. The zones can have different size mesh media to augment capture efficiency as the sludge moves along the length of the cylinder. Finer mesh is generally used in the feed end where material is thinner, while downstream zones have larger openings to enhance removal of water. Rings with adjustable ports control detention time in each zone. The result is high capture efficiencies – as much as 98% – without sacrificing high inlet flow rates. High capture efficiency alone can substantially reduce polymer usage.

Operator Friendly

The ThickTech RDT was designed with ease of operation and maintenance in mind. Once the system is set, only periodic checks are required. If ever needed, the cylinder screens are easy to replace. A spray bar with a manually operated cleaning system runs the entire length of the cylinder. The orifices in the spray bar become progressively smaller to minimize rewetting the thickened sludge. The spray nozzles can be cleaned quickly by simply turning a handwheel. The reasons why ThickTech is your best choice quickly add up: low installed cost, high capture, simple operation, low polymer cost, low energy consumption and minimal water.



Woven wire mesh for impressive water release

The ThickTech RDT standard

- Throughput: up to 400 GPM/unit
- Output solids content: 7% to 12%
- Return water quality: 98%+ recovery of solids
- Polymer usage: approximately \$10/ton of dry sludge
- Operation: simple, maintenance-free

Dimensions

The knowledge gained from 4,000 installations, 6,000 laboratory tests, and 900 pilot tests is the Parkson guarantee.

Model	A length	B length	C length	Weight
RDT-25	78	32	38	1000
RDT-50	111	42	61	1400
RDT-100	142	49	66	2500
RDT-150	166	49	66	3000
RDT-200	182	61	84	6500
RDT-300	206	61	84	7000
RDT-400	276	66	84	7500

