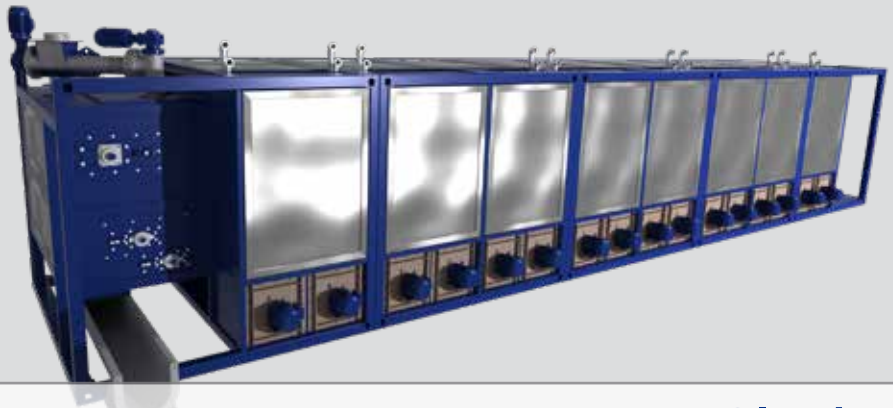
EQUIPMENT: Low-Temperature Belt Dryer DLT Series



Centrisys DLT Low-Temperature Sludge Dryer Focused on the USA

The DLT is not a drastic redesign. Our dryer development team, industry consultants, and industrial experts researched current dryers on the market and identified key areas of low-temperature dryers that would benefit from improvement. The result is a simplified, operator-friendly, low-temperature belt dryer that maximizes uptime – all done in a smaller footprint.

Centrisys DLT Low-Temperature Belt Dryer

The DLT is a closed-loop belt dryer that uses hot water as its primary heating source. The water loop is heated to ~190 °F; the heat source is typically a boiler system but CHPs or turbines can be used. To transfer the heat from the hot water loop into the dryer, air is forced across the heat exchangers into the dryer.

Why Choose the Centrisys DLT Low-Temperature Dryer?

USA Parts and Service. Centrisys DLT is designed, built, and FOCUSED on USA plants.

- The dryer's modular segments are intentionally sized to use standard USA parts
- All parts and components are manufactured, sourced, and distributed in the USA
- All parts and components are stocked at the Centrisys parts distribution facility in Kenosha, Wisconsin
- Parts are standard USA – no custom-sized parts, components, or ancillary equipment

Smallest Footprint. Increase Flexibility for Plant Design and Expansion.

- A low-profile feeder design minimizes height requirements for installation
- A decentralized heat recovery system; it's a modular cartridge system integrated into the dryer
- The advanced design of the heat recovery system decreases the installed footprint
- The heat exchanger is an integrated module within the dryer system; the modular design is a more simplistic approach for dryer sizing to align with plant capacity requirements

Enhanced Safety. Designed for Plant Operators.

- Designed to meet NFPA 820/654 standards
- OSHA compliance for no surface +120 °F
- All the motor parts and instrumentation meet Class II explosion proof requirements
- An automated sprinkler system installed for safety

Uncomplicated. Designed for Simple Maintenance.

- No confined spaces, operators do not need to crawl inside the dryer box for maintenance
- Internal dryer parts are accessible and removable from outside the box
- The compact pull-out cartridge is designed for a one-person "swap-in-place" exchange
- The primary heat exchanger is a two-piece, split-height panel design
- All doors are hinged, no special tools are needed.
- An optional lift crane assembly to move heavier parts
- 24/7 operation with minimal operator attention required

Drivers for Low-Temperature Dryers

- Generate Class A Biosolids - dry sludge at a high temperature to destroy pathogens
- Reduce sludge volume
- Reduce costs for disposal, landfill, and transporation
- PFAS regulations

Product

- Dried sludge with a dryness level up to +90%
- Reduced biosolids weight up to +80%
- Meets Class A requirements
- Optimized particle size creates minimal dust; allows for land application without further processing

Designed & Built in the USA

Discover more at **Centrisys-CNP.com**

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EQUIPMENT: Low-Temperature Belt Dryer DLT Series

More Uptime.
Creates the Most Dried Sludge.

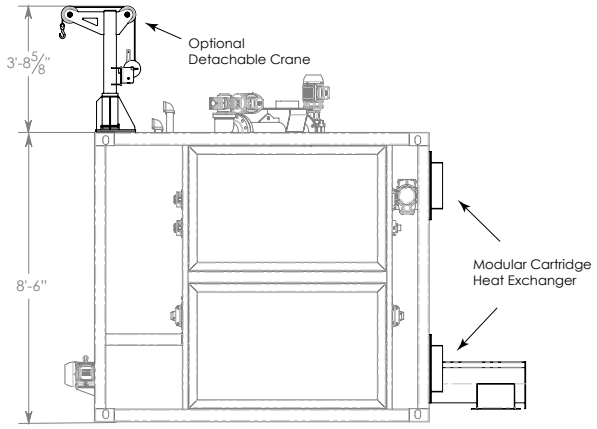
PROBLEM

Typical low-temp dryer designs have heat recovery systems that are large, stand-alone, and located outside the dryer system. During cleaning, the entire dryer must stop to complete this maintenance task.

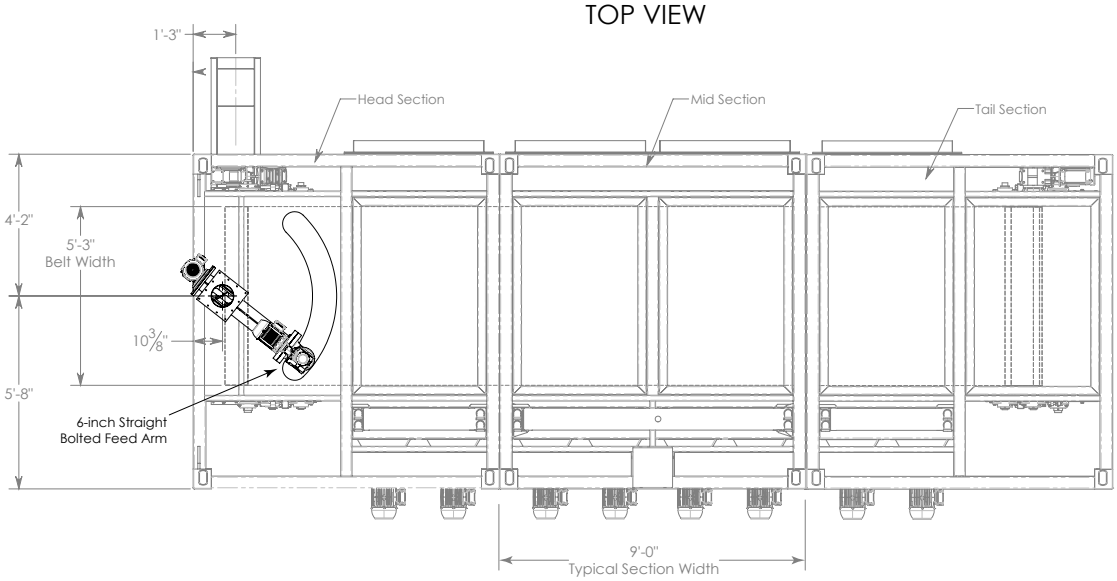
SOLUTION

In the DLT's Heat Recovery System, each module has an individual heat exchanger. If a single heat exchanger within the module requires cleaning, the DLT system continues to dry sludge. Only the individual module stops. It's a simple, one-person swap of the cartridge.

SIDE VIEW



TOP VIEW



	DLT120	DLT220	DLT320	DLT420	DLT520	DLT620	DLT720	DLT820
Number of Heat Segments	1	2	3	4	5	6	7	8
Max H_2O Evaporation (lb. H_2O/hr)	350	700	1,050	1,400	1,750	2,100	2,450	2,800
Process Capacity* (t/d)	5-6	11-13	16-19	22-25	27-32	32-38	38-44	43-50
Height (ft)	12.25	12.25	12.25	12.25	12.25	12.25	12.25	12.25
Width (ft)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Length (ft)	18	27	36	45	54	63	72	81
Clearance (ft)	4	4	4	4	4	4	4	4

Hot Water Temperature In/Out: 194°F
Max Internal Temperature: 186°F

** Capacity assumes feed sludge at 20 30% TS and 24-hour operation*

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ISO 9001:2015