



DLT Sludge Dryer – Focused on the USA

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 uses a simple, closed-loop, hot water heating system. The low-profile design integrates modular heat exchangers into the dryer system. Depending on the plant, the DLT can be designed with a dedicated hot water boiler for natural gas or biogas. The waste heat from pyrolysis or CHP cooling water can be used to offset energy requirements.

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 – no custom-sized parts, components, or ancillary equipment
- 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

Smallest Footprint. Increase Flexibility for Plant Design and Expansion.

- A low-profile feeder design minimizes height requirements for installation
- A decentralized heat recovery system; eliminates a single point of failure
- The unique design of the heat recovery system decreases the installed footprint
- The modular design is a simplistic approach for dryer sizing to align with plant capacity requirements

Enhanced Safety. Designed for Plant Operators.

- Designed to meet NFPA 820/654 standards
- An insulated dryer surface to meet OSHA compliance for no exterior 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 Sludge Dryers

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

Product

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



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More Uptime. Less Maintenance. Fewer Truckloads.

PROBLEM

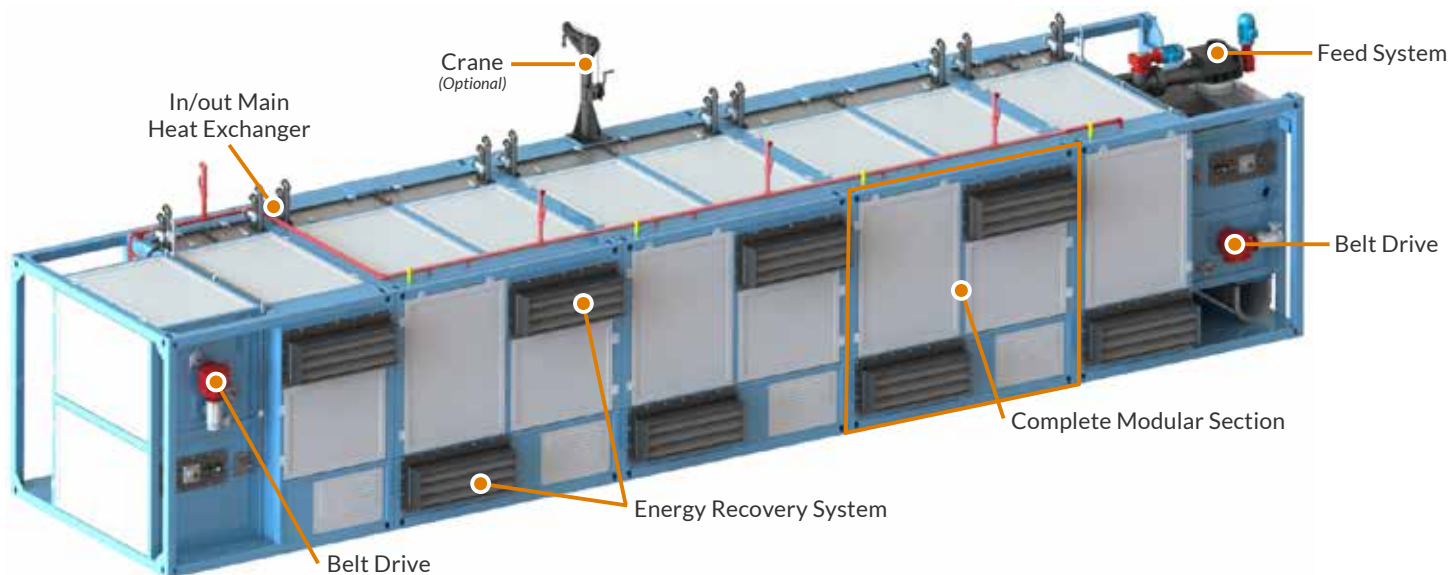
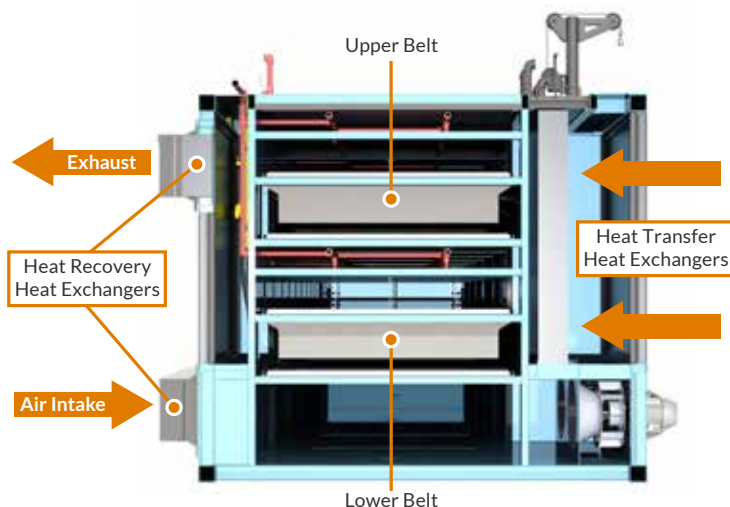
Typical low-temp dryer designs have heat recovery systems that are:

- Large
- Stand-alone
- A single point of failure
- Located outside the dryer system

During cleaning, the entire dryer must stop operation to complete this maintenance task.

SOLUTION

In the DLT's heat recovery system, each module has an individual set of heat exchangers. If a single HEX within the module requires cleaning, the DLT system continues to dry sludge. The dirty HEX can be isolated, removed and replaced with a spare. It's a simple, one-person swap of the cartridge.



	DLT120	DLT220	DLT320	DLT420	DLT520	DLT620	DLT720	DLT820
Number of Heat Segments	1	2	3	4	5	6	7	8
Max H ₂ O Evaporation (lb. H ₂ O/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

