EQUIPMENT: Low-Temperature Belt Dryer DLT Series

DLT Series: Revolutionizing Biosoilds Management

Why Choose the Centrisys DLT Low-Temperature Belt Dryer?

Transform your biosolids management with the Centrisys/CNP DLT Series – the smart choice for efficient, safe, and cost-effective sludge drying. Our innovative solution addresses the complex challenges of wastewater treatment, offering a pathway to improved operations and reduced costs.

- **Modular Design**
  Our scalable design (1-6 heat segments, 200-2,000 lb H2O/hr evaporation) allows for future expansion, reducing initial capital costs while providing flexibility for growing needs protecting your investment but also facilitates easier maintenance and minimizes downtime during repairs.
- **Integrated Heat Recovery System**
  By recapturing and reusing heat, our system significantly improves energy efficiency, cutting operational costs eliminating single points of failure, enhancing overall system reliability and ensuring continuous operation even during maintenance.
- **Compact Footprint**
  The low-profile design enables installation in existing structures, saving on new construction costs while preserving valuable plant space for other processes. This flexibility is crucial for facilities with space constraints or those planning for future expansions.
- **Class A Biosolids Production**
  Meeting stringent regulatory requirements for pathogen reduction, the DLT opens up more options for beneficial reuse of biosolids with up to 194 F (90 C) internal temperature. This capability not only ensures compliance but also potentially creates new revenue streams for your facility.

Key Benefits

- **Reduced Sludge Volume up to 80%**
  Lower transportation and disposal costs as the DLT addresses one of the most pressing challenges in wastewater treatment offering significant operational savings and a smaller environmental footprint.
- **Enhanced 24/7 Operational Efficiency**
  Maximizing throughput with minimal operator attention, the DLT optimizes labor resources and improves plant productivity ensuring consistent performance and reduces the need for frequent start-ups and shutdowns.
- **Improved Safety (NFPA 820/654 compliant)**
  Our design mitigates risks associated with biosolids processing, safeguarding operators and reducing potential liabilities.
- **Simplified Maintenance**
  By eliminating the need for confined space entry, we reduce maintenance time and costs, improve safety, and minimize the need for specialized training or equipment.

Technical Highlights

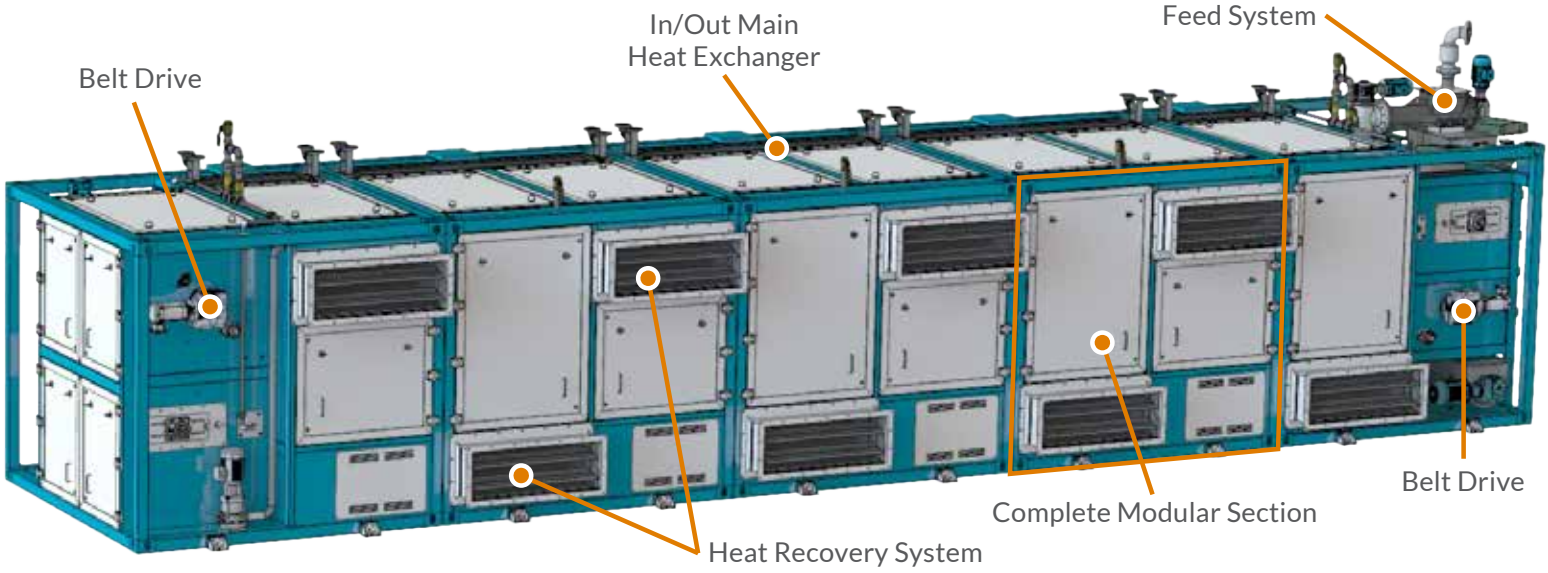
- **Hot water temperature: 194 F (90 C) maximum**
  This optimal temperature balances drying efficiency with safety, operating below flash-ignition temperatures to enhance overall plant safety while maintaining effective drying performance.
- **Achieves >90% solids content**
  By maximizing volume reduction and producing a stable, easily manageable end product, our system significantly reduces storage and handling requirements while improving the quality of the final biosolids.
- **Optional back-mixing for <18% DS**
  This feature expands the range of influent sludge characteristics that can be processed, increasing operational flexibility and allowing the system to adapt to varying input conditions.

Designed & Built in the USA

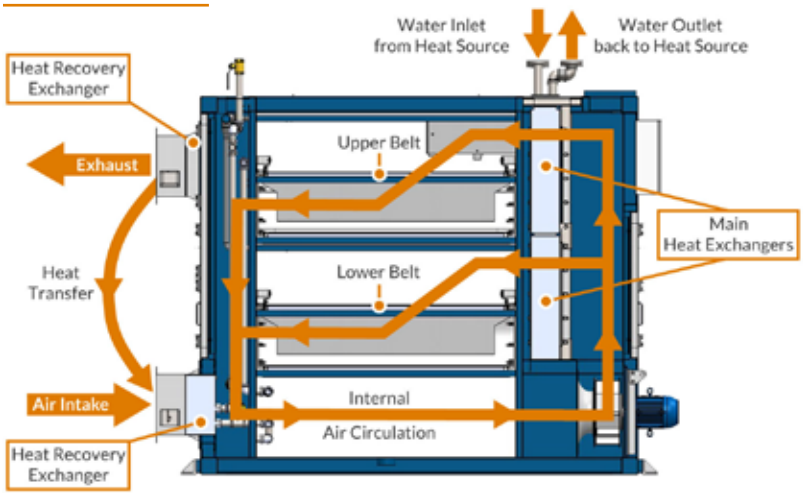
Discover more at **Centrisys-CNP.com**

centrisys cnp

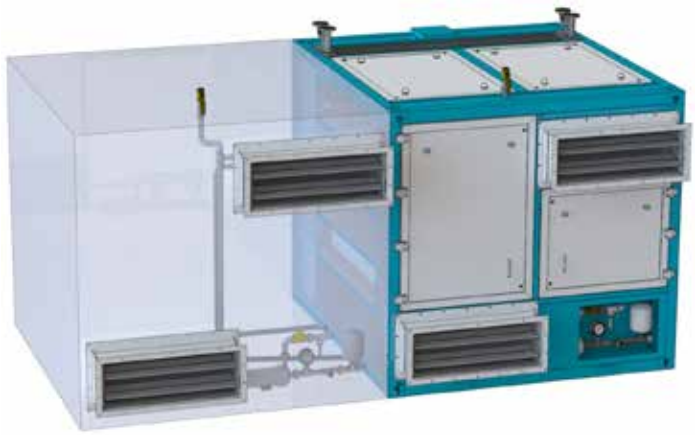
EQUIPMENT: Low-Temperature Belt Dryer DLT Series



AIR FLOW



HEAT RECOVERY SYSTEM



	DLT120	DLT220	DLT320	DLT420	DLT520	DLT620
Number of Heat Segments	1	2	3	4	5	6
Max H_2O Evaporation lb H_2O/hr (kg H_2O/hr)	315 (143)	630 (286)	945 (429)	1,260 (572)	1,580 (717)	1,900 (860)
Process Capacity* short tons/day (meter tons/day)	5-6 (4.4-5.5)	10-11.5 (9-10.5)	14-17 (12.7-15.4)	19.5-22.7 (17.6-20.6)	24-28 (22-25.5)	29-34 (26.4-30.8)
Height ft-in (m) without foundation	11-8 (3.6)	11-8 (3.6)	11-8 (3.6)	11-8 (3.6)	11-8 (3.6)	11-8 (3.6)
with foundation	13-4 (4.1)	13-4 (4.1)	13-4 (4.1)	13-4 (4.1)	13-4 (4.1)	13-4 (4.1)
Width ft (m)	12 (3.7)	12 (3.7)	12 (3.7)	12 (3.7)	12 (3.7)	12 (3.7)
Length ft-in (m)	21-4 (6.5)	30-4 (9.25)	39-4 (12)	48-4 (14.75)	57-4 (17.5)	66-4 (20.2)
Clearance ft (m)	4 (1.2)	4 (1.2)	4 (1.2)	4 (1.2)	4 (1.2)	4 (1.2)

Hot Water Temperature In/Out: 194 F (90 C)/158 F (70 C)
Max Internal Temperature: 186 F (86 C)

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

9586 58th Place | Kenosha, WI 53144 USA | +1 (262) 654-6006 | info@centrisys-cnp.com
North America | South America | Europe | Middle East | China

ISO 9001:2015