PRODUCT DATA SHEET

L-TECH PERMEATE

Overview

The RELCO L-TECH™ Permeate Drying System is engineered for the efficient drying of edible permeate powders in high-capacity food processing applications. Designed to handle production rates of up to 20,000 lb/hr, the system delivers consistent powder quality while minimizing energy use and overall system footprint.

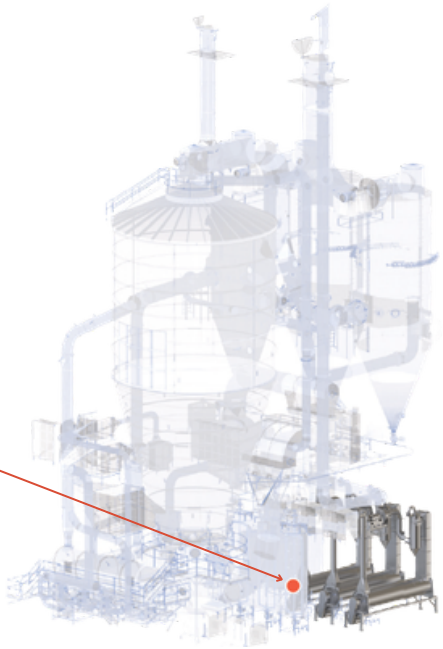
The design incorporates a bottom-fed Air-Lift Dryer to maximize residence time and drying efficiency. An integrated circular fluid bed completes second-stage drying while promoting fines agglomeration to improve powder handling characteristics. Recovered fines are recycled back into the drying chamber to maximize yield. Optional cyclone integration and configurable system components allow the dryer to be tailored to specific product requirements and plant layouts.

Key Features

- High upstream water removal reduces dryer size and energy consumption
- Bottom-fed dryer design increases residence time and drying efficiency
- Integrated fluid bed completes final drying and fines agglomeration
- Continuous crystallization improves lactose crystallization and reduces powder stickiness
- Compact system footprint simplifies installation and plant integration
- Designed to 3-A sanitary standards for edible powder production
- Explosion venting provided on the dryer chamber and baghouse

Advanced Components

- Hi-Con Evaporator: Low fouling; compact design; achieves high solids
- Triple C Processor: Continuous product flow eliminates tanks for crystallization; concentration occurs with rapid cooling; inlet feed is non crystallized material
- Dehumidifier: Easy access for filter replacement; stainless steel; horizontal-stacked coils provide compact design; self-draining.
- Baghouse: Easy top-loading bag, convenient, safe inspection; designed to extend bag life; safety explosion venting
- Air-Lift Dryer: Bottom air and product inlet allow for two-pass drying; improving efficiency, a compact chamber design; safety explosion venting; integrated fluid bed completes drying and fines agglomeration.
- Compact Chamber Design: Reduces cost, integrated fluid bed to complete drying and fines agglomeration; safety explosion venting.



CONTACT RELCO
relcosales@kss-sep.com
www.relco.net