

RELCO's L-TECH™ Permeate Drying System is specifically designed for drying edible permeate resulting from milk or whey filtration. Solids are concentrated from 60 to 70+ percent through a Hi-Con falling film-finished evaporator. The system's Triple C Processor is capable of continuous cooling and crystallizing of high-solids permeate with a counter-current flow, providing further solids concentration to levels near 75 percent.



The L-TECH™ Permeate Drying System's Air Lift Dryer is fed from the bottom, increasing residence time. An integrated circular fluid bed at the bottom of the chamber provides second-stage drying and fines agglomeration. The recovered fines are conveyed to the drying chamber for agglomeration.

FEATURES & BENEFITS

- Maximum water removal in HiCon Evaporator minimizes the size and energy requirements of the dryer
- Continuous crystallization improves degree of lactose crystallization and reduces stickiness of powder in dryer
- Continuous crystallization minimizes crystallizer capital and cooling expenses
- Bottom-fed dryer for long retention time
- All RELCO supplied equipment is built to applicable 3A standards and USDA guidelines for dairy equipment and governmental regulations (unless specifically noted)
- Explosion venting included on dryer chamber and baghouse
- Small plant footprint for easy site location

ADVANCED PARTS

- **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; two-pass drying improves efficiency and cost with a compact chamber design; safety explosion venting; integrated fluid bed completes drying and fines agglomeration

