

Category: Freezing

Product Name: Spiral Drum Freezer

Capacity: Up to 250 kg/hr to 3000 kg/hr (customizable based on product and configuration)

Temperature Range: Air Temperature: -30°C to -40°C | Product Core Temperature: -18°C or below

Key Features:

- Vertical spiral conveying for maximum product retention time with minimal floor space
- Positive drive low tension system , enabled by positive engagement of belt & drum.
- Efficient air flow design ensuring effective reach & intensity over all products
- Continuous conveyor system with spiral configuration for uniform and consistent freezing
- High-capacity impingement air-flow system with efficient evaporators for rapid heat transfer
- Stainless steel construction for high hygiene and durability
- Open profile design for easy cleaning and reduced dirt accumulation
- Energy-efficient operation with single motor drive technology
- PLC/HMI-based control system with Siemens VFD for precise control and monitoring
- Adjustable belt speed for different product requirements
- Optional CIP (Clean-In-Place) system for easy maintenance
- Twin-layer silicon strip curtains to reduce moisture ingress and frosting
- Side-mounted gearbox for improved hygiene and reduced maintenance
- Improved belt design with higher strength, reduced wear, and longer life
- Fully sealed welded floor design (bathtub type) for enhanced hygiene

Applications:

- IQF Freezer for Individual quick core freezing
- Forced cooling for products with high core temperature
- Spiral oven with product moisture control
- Spiral Rain shower chillers

Photos:

