

PRODUCT DATASHEET

Thawing Unit for Drug Substances

OVERVIEW

The proXima Thawing Unit is a compact, high-performance system designed for thawing drug substances in recirculation mode. It handles up to 250 kg of drug substance across three trays, which can be adapted for various containers. Efficient one-level defrosting is enhanced by horizontal shaking, ensuring optimal heat transfer. Features include an electrically adjustable loading trolley, built-in sensors for temperature, humidity, and speed, as well as integrated HEPA filters and a hygienic chamber design to prevent cross-contamination.





TECHNICAL SPECIFICATIONS

- Dimensions (W × D × H): 2,800 mm × 2,950 mm × 3,000 mm
- Weight (empty): 2400 kg
- Air velocity around containers: ≥ 1 m/s
- Capacity: Maximum load approx. 300 kg (distributed over 3 trays)
- Defrosting time (from -60 °C): 4–8 hours for 250 kg of product
- Airflow capacity: Up to approx. 15,000 m³/h
- Horizontal shaker movement: Frequency: 30–90 per minute, deflection: 30 mm
- Material: Stainless steel AISI 304 or 316 (with Factory Certificate 2.2)

APPLICATIONS

- Mammalian cell culture
- Monoclonal antibody production
- Vaccine production
- Gene therapy
- Cell therapy
- Biopharmaceutical production

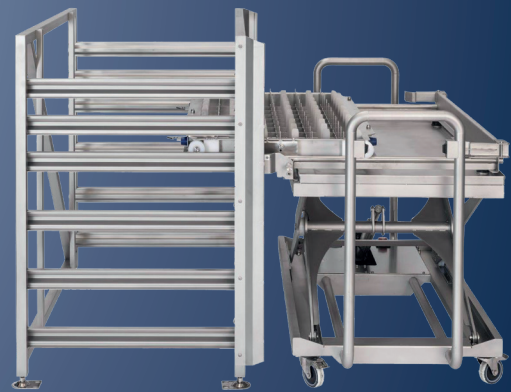


BENEFITS

- Even airflow across containers for consistent thawing
- Uniform temperature distribution throughout the chamber

ADDITIONAL EQUIPMENT

- Storage rack for up to 6 trays (used with the loading trolley)
- Electrically adjustable-height loading trolley



KEY FEATURES

- Thawing device in recirculation mode for drug substances
- Handles loads up to approx. 250 kg (distributed over 3 trays)
- Trays can be individually adapted to the type of container (bottles, bags, etc.)
- Defrosting takes place on one level
- Electrically height-adjustable loading trolley
- Storage shelves for up to 6 trays
- CFD simulation of airflow and defrosting used in design validation
- Built-in sensors (speed, temperature, humidity)
- Probes and connection ports available for DEHS testing
- Horizontal shaker motion enhances heat transfer efficiency
- Protection against cross-contamination through integrated HEPA filters
- Hygienic design of the inner chamber
- Drip trays with drainage options



CONTACT INFORMATION

For more information or to request a quote, please contact us at +43 (0)5337 63226, spt.proxima@spiegltec.com or www.spiegltec.com.