

HERAEUS® HERAFREEZE® -85 °C SUPER INSULATION FREEZER

311 Liters (11 cu.ft.) Capacity with a Footprint of Only 0.54 m² (6 sq.ft)

Super Insulation, Thin Wall Construction Increases Interior Volume

The super insulated Heraeus® HERAFreeze® HFU1185 SI BASIC™ -85 °C freezers by Kendro Laboratory Products increase your storage capacity without increasing lab space.

Maximum Storage Capacity

Exclusive thin wall Super Insulation technique, combined with a slimline design, creates a very space-efficient, high-capacity freezer unit.

- Three standard racks per shelf and five shelf positions, provide storage capacity for up to 180 boxes, using minimal lab floor space
- Closed-cell, high-density, foamed-in-place urethane insulation combine with Dow INSTILL™ vacuum insulation core to maintain R-value
- Composite wall design decreases wall thickness from 127 mm (5 in) to only 50 mm (2 in), maximizing interior storage space

Efficient Narrow Cabinet Design

At only 1918 mm (76 in) high, 940 mm (37 in) deep, and 673 mm (26.5 in) wide, HERAFreeze® HFU1185 SI BASIC™ has a very small footprint and can be easily moved on heavy duty swivel casters.

Inner Doors

- Five inner doors constructed of durable ABS plastic create independent storage compartments with uniform chamber insulation
- Doors operate independently to prevent entire sample contents from ambient thermal exposure



Storage capacity

180 50 mm (2 in) boxes (18,000 vials)*

135 75 mm (3 in) boxes (13,500 vials)

*Based on standard fiberboard boxes with 10x10 grid cell dividers



Inner Chamber

- Five-compartment design features four shelves, three of them adjustable to 25 mm (1 in) increments for alternate inventory configuration
- Pressure Equalization Port combats door open-and-close pressurization differential in the chamber, allowing easy re-entry within 30 seconds

Outer Door

- Chrome latch assures a positive door seal and accommodates a customer-supplied padlock for locking and sample security

Alliance™ Refrigeration System

- Two industrial-grade 1 HP Copeland compressors with CFC-free refrigerants
- High capacity air-cooled condenser with dual condenser fans, aerodynamically shaped fan blades
- Downfeed evaporator for most efficient refrigerant flow
- Washable condenser filter keeps fins free of dust to maintain peak cooling efficiency; no tools required for removal

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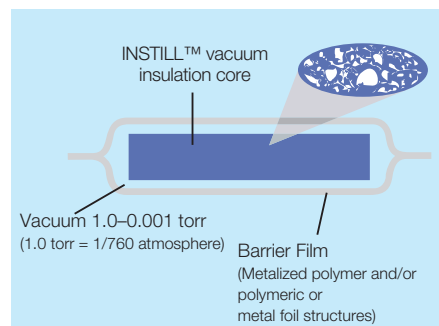
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Control, Monitoring and Alarm Systems

- Solid-state electronic controller with easy-to-read LED digital temperature display is door-mounted at eye level
- Key-operated on/off switch features voltage boost system and warm alarm
- Automatic voltage boost compensates for low voltage and brown-out conditions
- Exterior alarm contacts connect remote monitoring system on back of freezer
- Factory pre-set warm alarm



Super insulation panels are constructed of Dow INSTILL™ vacuum insulation core, encapsulated by a sealed and evacuated film laminate and wrapped in DuPont Mylar®.

Solid-State Electronic Controller

OPTIONS AND ACCESSORIES

Backup Systems	Catalog No.
CO ₂ Backup System (free-standing, customer installed)	AVL7218
LN ₂ Backup System (free-standing, customer installed)	AVL7219

Temperature Recorders	Catalog No.
Temperature Recorder (built-in, factory installed)	AVL6283-6
Temperature Recorder (free-standing, customer installed)	AVL6383-6
Chart Paper (temperature range +50 °C to -115 °C)	AVL6185

Alarm Systems	Catalog No.
Alarm Delay Module	AVL6903

Optional inventory components, including racks and boxes, may be ordered separately.



Optional Temperature Recorder (free-standing).

TECHNICAL DATA

Model	Voltage	Amps/ Breaker (A)	Volume (Liters/Cu.ft.)	Interior Dimensions H x D x W (mm/inches)	Exterior Dimensions H x D* x W (mm/inches)	Ship Weight (kg/lb)	Catalog No.
HFU1185 SI BASIC™	230V 50Hz 1φ	7.5/15	311/11	1283 x 508 x 470/ 50.5 x 20.0 x 18.5	1918 x 940 x 673/ 75.5 x 37.0 x 26.5	275/ 605	HFU1185SIBASIC-V

* plus compulsory wall distance

Exterior dimensions include allowances for cabinet, hinges, door latches, handles and control panel protrusions.
All dimensions and specifications are subject to change without notice.

For Ordering or Technical Information

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