

ABT-HC-2586-TS





Product Data Sheet

25 Cu. Ft. Ultra Low Temperature Touchscreen Freezer Dual Voltage

Transform your laboratory with these industry-leading ultra-low temperature freezers. Protect your samples with steel-insulated inner doors for ultimate temperature retention down to -86°C. Experience highly efficient variable speed compressors for energy savings and enhanced system performance. Conduct advanced data logging through intuitive touchscreen control—track real-time temperature readings, export data, and capture trends with just a few taps. Dual voltage compatibility ensures installation flexibility, with each unit including both 115V and 230V power cords under a single part number. You can also rest secure knowing your samples are guarded by a full array of alarms—no more surprise temperature excursions. As a finishing touch, you'll benefit from natural hydrocarbon refrigerants for sustainability, energy efficiency, and long-term cost savings. Together, these features are designed to push boundaries and harness the full potential of the modern ULT.



General Description and Application Storage capacity (cu. ft) 25 Cu. Ft. Capacity One solid exterior door, right hinged, not reversible; Five insulated inner doors Shelves Four adjustable, stainless steel (standard), tested to 160 lbs. (optional configurations available) Qty. 480 2" boxes (30 UF442 racks) Non-applicable Four heavy duty swivel casters with locks Baskets Mounting Interior lighting Non-applicable Airflow management Non-applicable 1/2" diameter port; access from back of unit to interior left side External probe access Foamed-in-place EPA compliant high density urethane foam Exterior materials Powder coated Steel Access Control Key lock on exterior door handle General warranty Five (5) year parts and labor warranty Seven (7) year compressor warranty Product Weight (lbs) 730 Shipping Weight (lbs) Rated Amperage Power Plug/Power Cord 10A (120V), 6A (240V) Two detachable cords supplied, min. 8' length: 120V (NEMA 5-15 Plug) and 240V (NEMA 6-15 Plug) Facility Electrical Requirement Dual voltage 110-120V 15A (minimum) or 208-240V AC 15A (minimum) Agency Listing and Certification UL/C-UL listed. Certified to UL 60335-2-89 safety standard

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Refrigerant R290 / R170

Two ea. variable speed hermetic reciprocating Compressor:

Condenser Tube and Fin design, EC fan, easy clean removable filter

Controller, Configuration, Alarms and Monitoring

Microprocessor with color touchscreen (11in) input and display, C° or F°

Digital Communication: 4-20mA output for temperature monitoring

Adjustable Temperature Range -86°C to -50°C External alarm connection

State switching remote alarm contacts Battery Backup: 12V high capacity battery for controller and touchscreen display: temperature monitoring, alarms, and event logging active

Energy Consumption (kwh/Day/CUFT) As low as 0.41 kWh/day/cu.ft.

Warm-up times: 180+ minutes -80°C to -50°C

Vacuum Relief Port: Includes heated vacuum relief port for pressure equalization reducing wait times between door openings

alarm after pre-set delay if alarm condition persists. Adjustable delays for door, temperature, power loss.

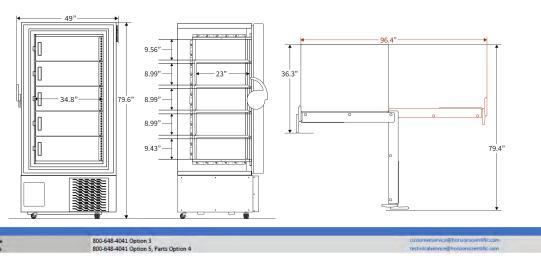
Disclaimers Indoor use only, +18C to +26C (+65F to +78F), <70% RH.

Specifications are subject to change. Backup battery maintains display, data logging, and alarms. Cooling capability is not maintained without external generator.

Optional Accessories

Removable storage racks, Precision fit rack system (in place of shelves), storage boxes, Wi-Fi data logger, additional shelves, additional chamber temperature (sample) probe.

Dimensions						
	Width (in.)	Depth (in.)	Height (in.)	Door Swing (in.)	Total open Depth (in.)	
Exterior	49"	36.3"	79.6"	43.1"	79.4"	
Interior	34.8"	23"	45.96"			



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