

# **ABT-HC-1786-TS**





## **Product Data Sheet**

17 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 Applicatio** Storage capacity (cu. ft) 17 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. 320 2" boxes (20 UF442 racks) Baskets Non-applicable Four heavy duty swivel casters with locks Mounting Interior lighting 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) 630 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

## Refrigeration System

R290 / R170 Refrigerant

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

Compressor: Two ea, variable speed hermetic reciprocating

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 0.59 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 1602 BTU/h Average heat rejection (BTU/h):

Audible and Visual Alarms: customizable sounds and volumes; mute with visual persistence; ring-back functionality re-engages audible

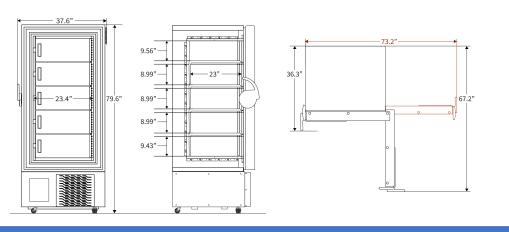
alarm after pre-set delay if alarm condition persists. Adjustable delays for door, temperature, power loss.

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

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

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

Dimensions					
	Width (in.)	Depth (in.)	Height (in.)	Door Swing (in.)	Total open Depth (in.)
Exterior	37.6"	36.3"	79.6"	30.9"	67.2"
Interior	23 4"	23"	45 96"		



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