

Technical Data Sheet

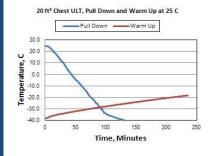
HERAfreeze Ultra-Low Temperature Chest Freezer

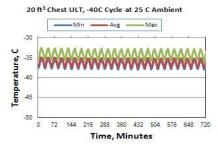
MODEL RELEASE - 20

Thermo Fisher Scientific, Marietta, Ohio

	Model Number	
Specifications	HFC2050TD	
	Application, Rating and Electrical Data	
Application	Storage of General (non-flammable) Laboratory Materials	
Storage Volume	566.3 Liters/20 Cubic Feet	
Temperature Rating	-10°C to -40°C	
Electrical Power	208-230V 60 Hz, 1 Phase	
Instrument Rated Current	6.5 AMP	
Building Supply Rating	15.0A (min) dedicated grounded circuit. Protected by circuit breaker rated for inductive loads	
Power Plug/Power Cord Length	NEMA 6-15P for D / IEC Cords, 10 Feet (3.048 Meters)	
Agency Listings	UL, cUL, CE, FDA	
Indoor/Outdoor Usage	Indoor Use Only	
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F)	
	Refrigeration Configuration	
Refrigeration System	Industrial-Rated one-stage System	
Compressor / Number	Hermetic Compressor for Low Temperature Application / 1	
Compressor Capacity*	1000 W	
Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1	
Expansion Device	Capillary Tube	
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment	
Defrost Method	Manual Defrost	
Refrigerant Charge/Flammability	R404A / Non-Flammable	
	Controller/Electrical System Configuration and Features	
Controller Level	Тор	
Power Switch	On-Off with Circuit Breaker	
Controller Type	Microprocess Control	
Setpoint Security	Yes	
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection	
Control Sensor	Single RTD (1000 ohm Platinum RTD)	
Remote Alarm Terminals	RS485, 4-20mA, Dry Contacts	
Adjustable Warm/Cold Alarms	Fully Adjustable	
Auto-Voltage Safeguard	Buck/Boost System	
	Dimensions and Construction	
Interior Dimensions (H x D x W)	706 H x 470 D x 1687 W mm (27.8 H x 18.5 D x 66.4 W in.)	
Exterior Dimensions (H x D x W)	1031 H x 829 D x 2438 W mm (40.6 H x 32.7 D x 96 W in.)	
Shipping Dimensions	1168 H x 973 D x 2677 W mm (46 H x 38.3 D x 105.4 W in.)	
Insulation	High Density Polyurethane Foam, R-30 (ft2⋅°F⋅hr/Btu)	
Door Seal	Silicone-Based High Performance Seal Gasket	
Shelves / Capacity	N/A	
All-Direction Casters	Standard with Locks	
Unit Weight	Approximately 329 kg / 726 lbs.	
Other Options	Electronic Recorder and CO2 or LN2 Back-Up System	
	Typical Performance Characteristics in 25 ° C Ambient	

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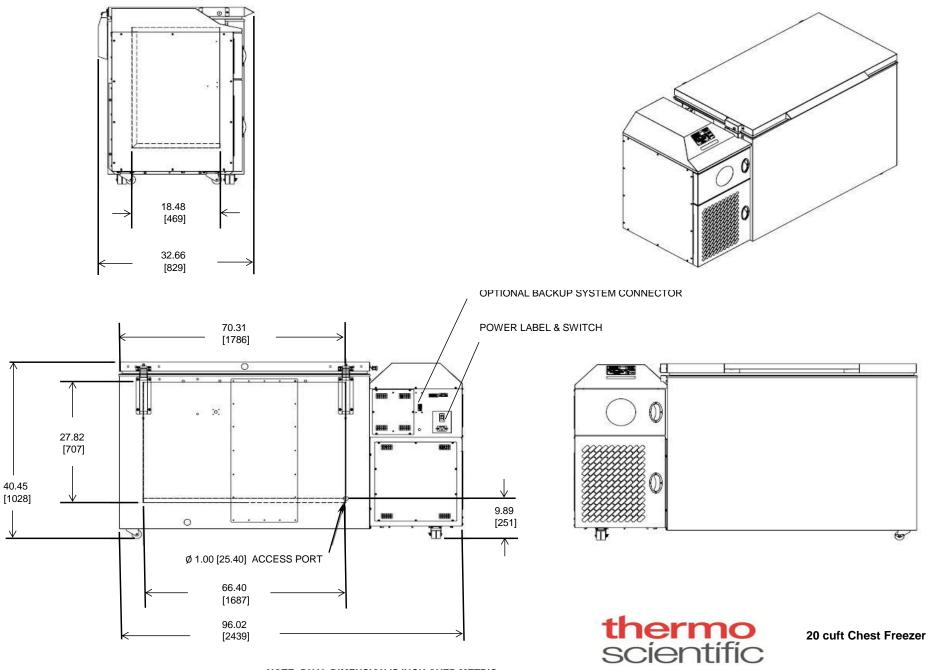




Test Unit Series or MSO Number:	18828-CB-AH
Avg Cabinet Temp at -40 C Cycle (C):	-36.1
Peak Variation from Setpoint (C):	+ 7.5/+2.0
Average Uniformity (C):	2.5
Average Stability (C):	2.8
Duty Cycle at -40C Setpoint (%):	55.2%
Cycle (on/off) rate at -40C (min):	16 / 13
Avg. energy consumption (kW-hr/day):	8.1
Avg. heat rejection rate (Btu/hr):	1155
Overall Pulldown Time (to -40C) (mins):	131
Warmup Time (-40 to -20 C) (minutes):	235

- 1) Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.
- * Manufacturer measured compressor capacity taken at standard -23°C/49°C (Evap/Cond) condition.

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NOTE: DUAL DIMENSION IS INCH OVER METRIC

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