

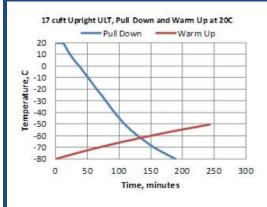
Technical Data Sheet

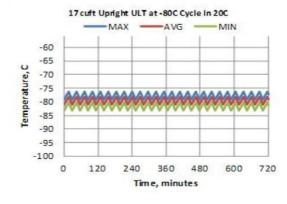
Revco Ultra-Low Temperature Upright Freezer

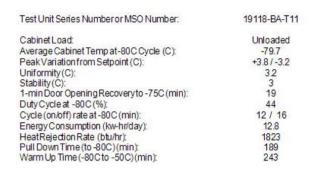
MODEL RELEASE - 20

Thermo Fisher Scientific, Marietta, Ohio

	Model Number
Specifications	ExF32086D
Specifications	Application, Rating and Electrical Data
Application	Storage of General (non-flammable) Laboratory Materials
Storage Volume	489.9 Liters / 17.3 Cubic Feet
Temperature Rating	-50°C to -86°C
Electrical Power	208-230V 60 Hz, 1 Phase
Instrument Rated Current	12.0 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, 3.048 Meters (10 Feet)
Agency Listings	UL, cUL, CE, FDA
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 18° C - 32° C (64.4° F - 89.6° F)
	Refrigeration Configuration
Refrigeration System	Industrial-Rated Two Stage Cascade System
Compressor / Number	Hermetic Compressor for Low Temperature Application / 2
Compressor Capacity*	1200 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 in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable
	Controller/Electrical System Configuration and Features
Controller Level	Тор
Power Switch	On-Off with Circuit Breaker
Controller Type	Microprocess Control
Setpoint Security	NO
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)	1308 H x 645 D x 586 W mm (51.5 H x 25.4 D x 23.1 W in.)
Exterior Dimensions (H x D x W)	1978 H x 988 D x 922 W mm (77.9 H x 38.9 D x 36.3 W in.)
Shipping Dimensions	2096 H x 1156 D x 1062 W mm (82.5 H x 45.5 D x 41.8 W in.)
Insulation	High Density Polyurethane Foam, R-30 (ft2⋅°F⋅hr/Btu)
Door Seal	Silicone-Based High Performance Seal Gasket
Shelves / Capacity	4 Stainless Steel Shelves Adjustable In 25 mm (1 in) Increment; Maximum Capacity/Shelf: 45.4 kg (100 Lbs.)
All-Direction Casters	Standard with Locks
Unit Weight	Approximately 338 kg / 745 lbs.
Other Options	Electronic Recorder and CO2 or LN2 Back-Up System
	Typical Performance Characteristics in 20 ° C Ambient







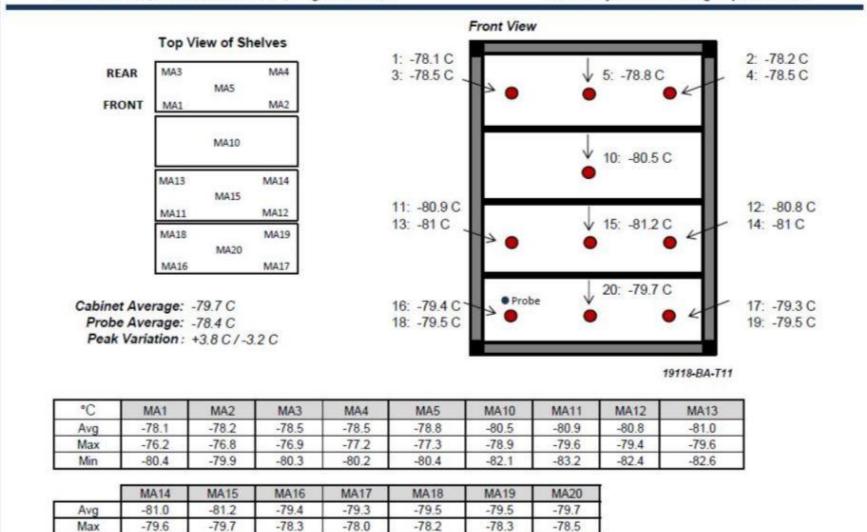
- 1) Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- 3) Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept 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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Typical Cabinet Temperature Map ULT 17 cuft Unit, 3 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 hours of cycle after reaching setpoint of -80 C



-82.7

Min

-82.9

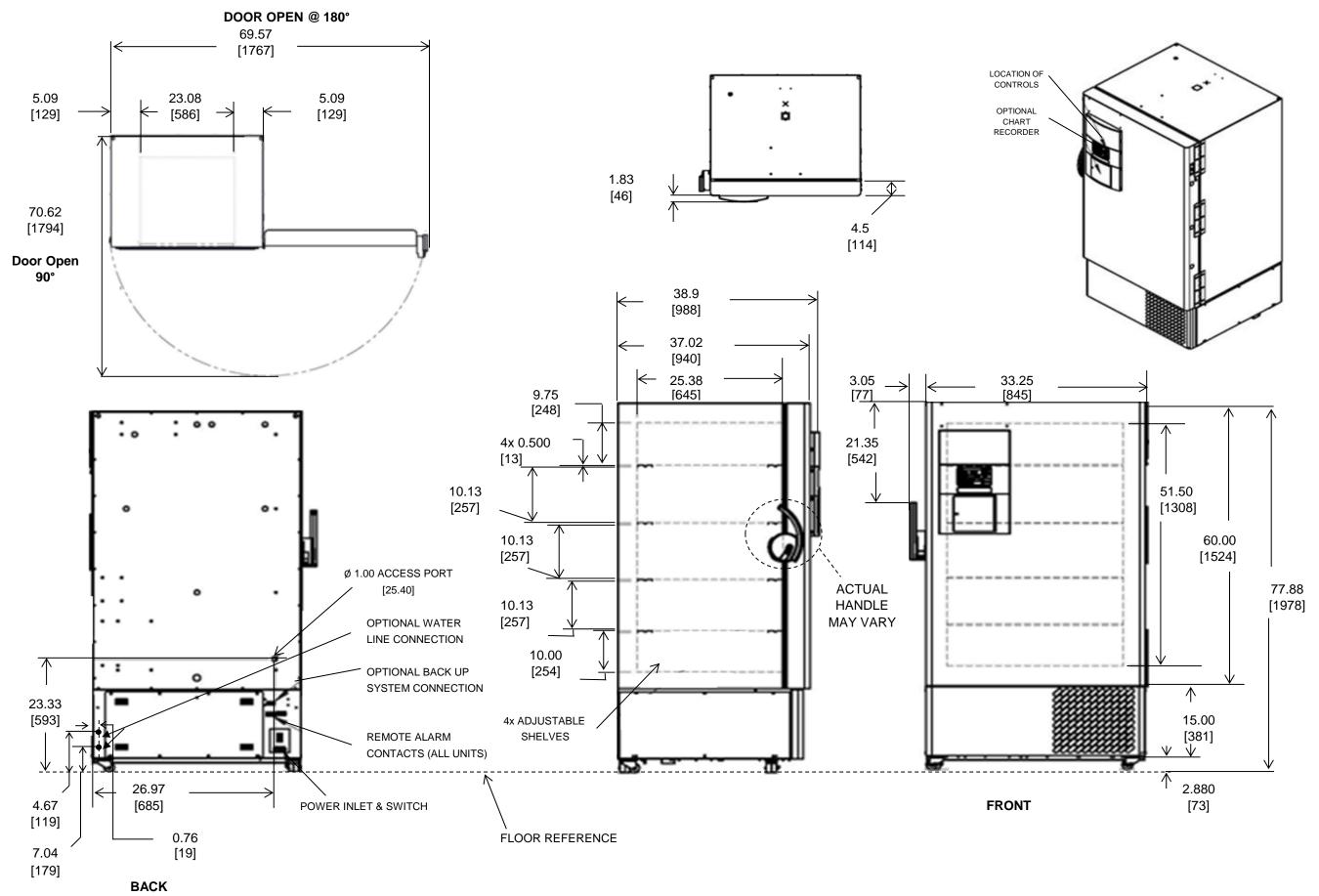
-80.5

-80.4

-80.7

-80.7

-80.8



NOTE: DUAL DIMENSION IS INCH OVER METRIC

thermo scientific

17 cuft Upright Freezer

5 Inner Doors Single Outer Door Top Mount Controls