

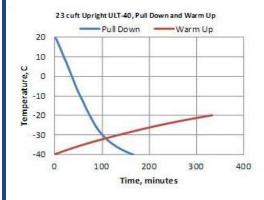
Technical Data Sheet

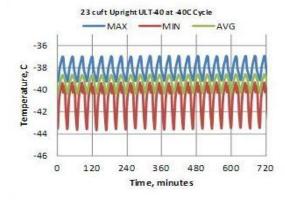
Revco Ultra-Low Temperature Upright Freezer

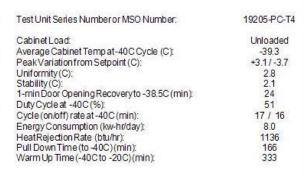
MODEL RELEASE - 20

Thermo Fisher Scientific, Marietta, Ohio

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	Model Number						
Specifications	DxF40040D						
	Application, Rating and Electrical Data						
Application	Storage of General (non-flammable) Laboratory Materials						
Storage Volume	651.3 liters / 23.0 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, 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 one-stage System						
Compressor / Number	Hermetic Compressor for Low Temperature Application / 1						
Compressor Capacity*	1026 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	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 777 W mm (51.5 H x 25.4 D x 30.6 W in.)						
Exterior Dimensions (H x D x W)	1978 H x 988 D x 1113 W mm (77.9 H x 38.9 D x 43.8 W in.)						
Shipping Dimensions	2096 H x 1156 D x 1252 W mm (82.5 H x 45.5 D x 49.3 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 333 kg / 735 lbs.						
Other Options	Electronic Recorder and CO2 or LN2 Back-Up System						
· ·	Typical Performance Characteristics in 20 ° C Ambient						







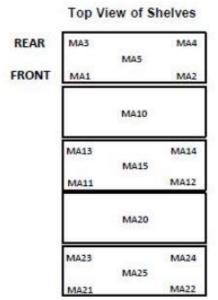
- 1) Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- 3) Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept 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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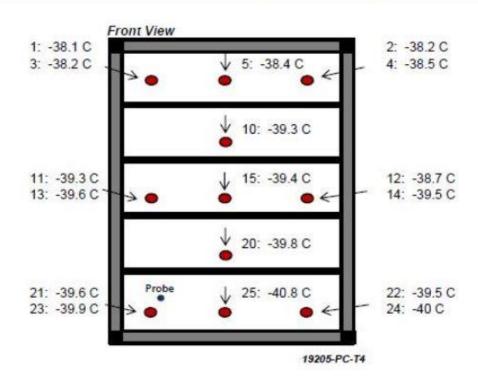


Typical Cabinet Temperature Map ULT-40 23 cuft Unit, 4 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 hours of cycle after reaching setpoint of -40 C

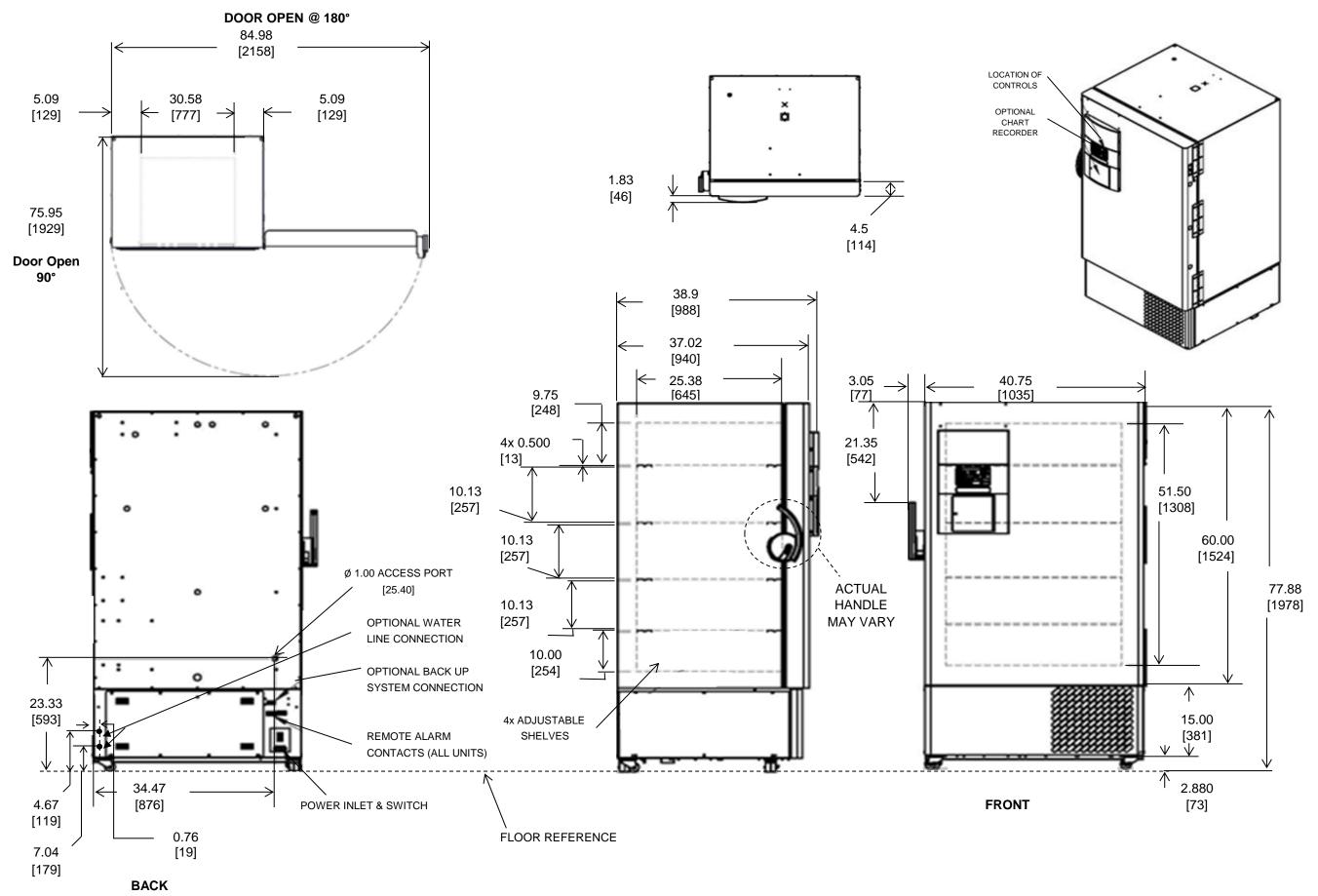


Cabinet Average: -39.3 C Probe Average: -40.3 C Peak Variation: +3.1 C/-3.7 C



	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-38.1	-38.2	-38.2	-38.5	-38.4	-39.3	-39.3	-38.7	-39.6
Max	-36.9	-37.0	-37.0	-37.2	-37.2	-38.6	-38.8	-38.0	-38.9
Min	-39.2	-39.5	-39.5	-39.9	-39.5	-40.2	-40.1	-39.5	-40.6

	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	-39.5	-39.4	-39.8	-39.6	-39.5	-39.9	-40.0	-40.8
Max	-38.9	-38.8	-39.2	-38.6	-38.7	-39.2	-39.1	-39.1
Min	-40.4	-40.2	-40.6	-41.0	-41.0	-41.1	-41.6	-43.7



NOTE: DUAL DIMENSION IS INCH OVER METRIC

thermo scientific

23 cuft Upright Freezer

5 Inner Doors Single Outer Door Top Mount Controls