

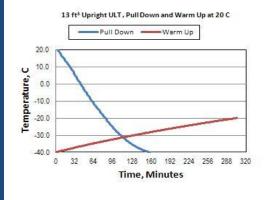
Technical Data Sheet

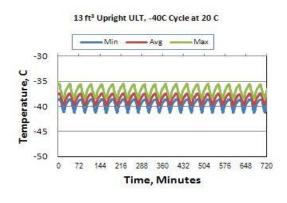
Revco Ultra-Low Temperature Upright Freezer

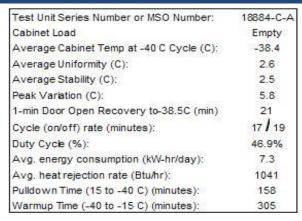
MODEL RELEASE - 20

Thermo Fisher Scientific, Marietta, Ohio

	Model Number					
Specifications	DxF24040A					
opeomodions -	Application, Rating and Electrical Data					
Application	Storage of General (non-flammable) Laboratory Materials					
Storage Volume	368.1 Liters / 13.0 Cubic Feet					
Temperature Rating	-10°C to -40°C					
Electrical Power	120V 60 Hz, 1 Phase					
Instrument Rated Current	10 AMP					
Building Supply Rating	15.0A (min) dedicated grounded circuit. Protected by circuit breaker rated for inductive loads					
Power Plug/Power Cord Length	NEMA 5-15P / IEC Cords, 3.048 Meters (10 Feet)					
Agency Listings	UL, cUL, 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*	967 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 492 D x 586 W mm (51.5 H x 19.4 D x 23.1 W in.)					
Exterior Dimensions (H x D x W)	1978 H x 834 D x 922 W mm (77.9 H x 32.9 D x 36.3 W in.)					
Shipping Dimensions	2096 H x 978 D x 1026 W mm (82.5 H x 38.5 D x 40.4 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 326 kg / 720 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.

© 2018 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.



Typical Cabinet Temperature Map ULT 13 cuft Unit, 4 Inner-Shelves + Base, Single Outer Door Temperatures are averages during > 12 hours of cycle after reaching setpoint of -40 C

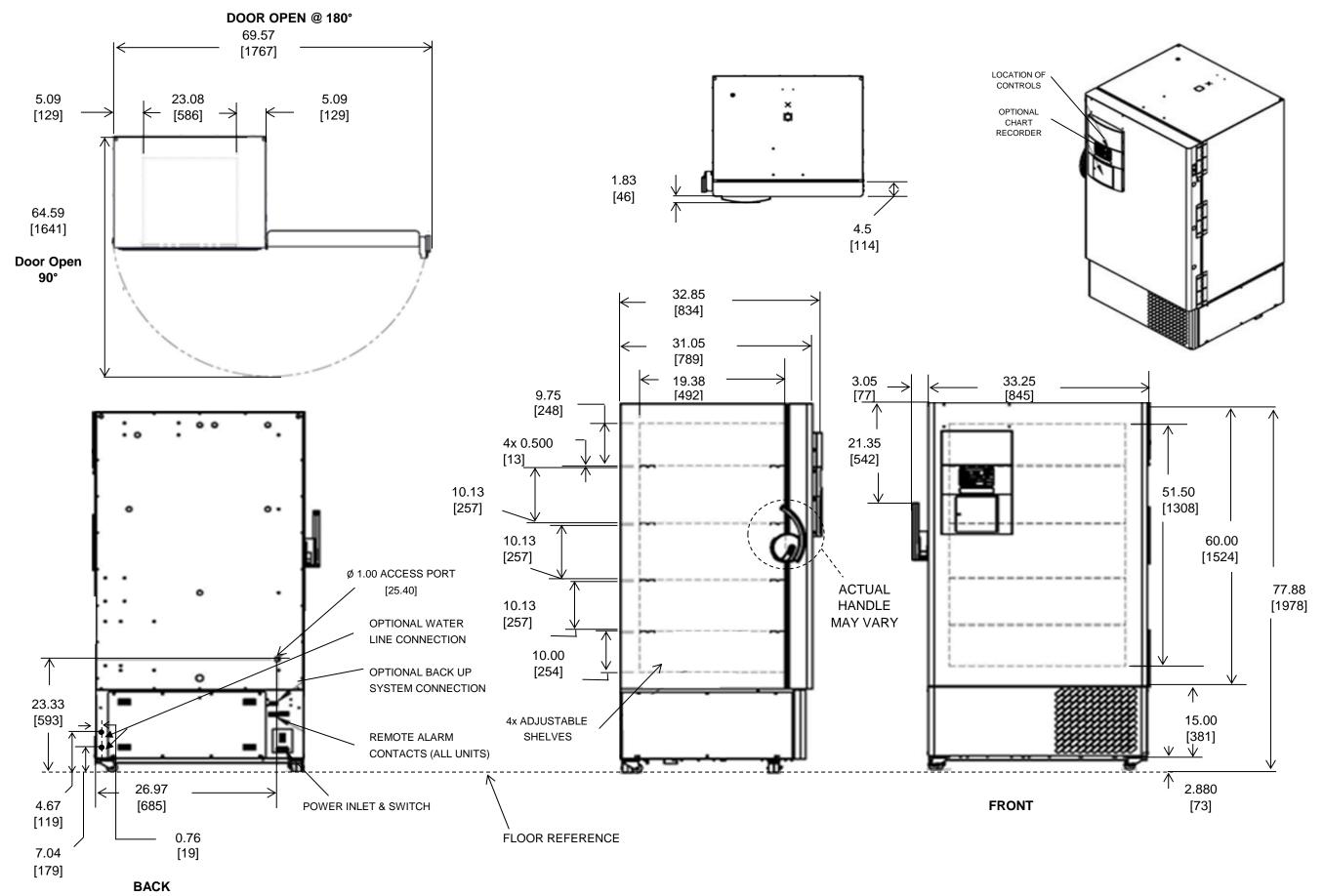
Top View of Shelves REAR MA3 MA4 MA5 FRONT MA1 MA2 MA10 MA13 MA14 MA15 MA12 MA11 MA20 MA23 MA24 MA25 MA22 MA21

Cabinet Average: -38.4 C Probe Average: -39.6 C Peak Variation: +4.5 C/-1.3 C

	ront View			87	0. 0000
1: -36.9 C 3: -37.2 C	3.	↓ 5: -37 ●	.1 C	-	2: -36.9 C 4: -37.1 C
		10: -3	8.1 C	l	
11: -38.7 C 13: -39 C	> •	15: -3	8.9 C ● ←	_	12: -38.6 C 14: -38.9 C
		20: -3	9.2 C	l	
21: -39.1 C 23: -39.2 C	Probe	25: -3	9.5 C ● ←	-	22: -39 C 24: -39.3 C
			18884-C-A		

	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-36.9	-36.9	-37.2	-37.1	-37.1	-38.1	-38.7	-38.6	-39.0
Max	-35.5	-35.5	-35.9	-35.7	-35.6	-37.1	-37.8	-37.8	-37.9
Min	-38.5	-38.5	-38.6	-38.7	-38.8	-39.3	-39.9	-39.7	-40.4

	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	-38.9	-38.9	-39.2	-39.1	-39.0	-39.2	-39.3	-39.5
Max	-38.0	-38.0	-38.3	-38.1	-38.1	-38.4	-38.3	-38.5
Min	-40.3	-40.1	-40.4	-40.7	-40.6	-40.6	-40.8	-41.3



NOTE: DUAL DIMENSION IS INCH OVER METRIC

DO NOT USE FOR ENGINEERING PURPOSES. SUBJECT TO CHANGE WITHOUT NOTICE.



13 cuft Upright Freezer

5 Inner Doors Single Outer Door Top Mount Controls