

Technical Data Sheet

Revco Ultra-Low Temperature Freezer

Upright Model Release - 80

Thermo Fisher Scientific, Asheville, North Carolina

Model Number

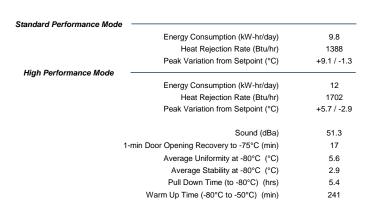
Thermo Scientific Revco RLE40086V

Applica	tion, Rating and Electrical Data				
Application	Storage of General (non-flammable) Laboratory Materials				
Storage Volume	19.4 cu. ft. (548 liters), 400 Standard 2" Boxes				
Temperature Rating	-50°C to -86°C				
Electrical Power	230V, 50 Hz, 1 Phase				
Instrument Rated Current	5.3 AMP				
Building Supply Rating	10.0A dedicated grounded circuit				
Power Plug / Power Cord	Country Dependant plug / IEC Cords, 10 ft (3.05 m)				
Agency Listings	UL, cUL, CE				
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive				
Application Environment	Indoor Use Only, Ventilated 15 - 32° C (59° F - 90° F)				

Dimensions and Construction					
Interior Dimensions (H x D x W)	51.2 x 27 x 23.1 in. (1300 x 686 x 587 mm)				
Exterior Dimensions (H x D x W)	78 x 37.8 x 28.3 in. (1981 x 960 x 719 mm)				
Shipping Dimensions	83.12 x 42.75 x 36.23 in. (2111 x 1086 x 920 mm)				
Shipping Weight / Net Weight	687 lbs. (312 kg) / 595 lbs. (270 kg)				
Insulation	Vacuum Insulation Panels with High-Density Water-Blown Polyurethane Foam				
Door Seal	Silicone-Based Gasket Seal with Electrical Door Perimeter Heater				
Shelves	4 Stainless Steel Adjustable Shelves in 1" (25mm) Increments				
Shelf Capacity	Max. Capacity per Shelf: 165 lbs. (73.4 kg)				
Interior / Exterior Material	Painted Steel (Stainless Steel Option) / Painted Steel				
All-Direction Casters	Standard with Locks				
Other Options	LN2 or CO2 Back Up System HID Controlled Access, Chart Recorder				

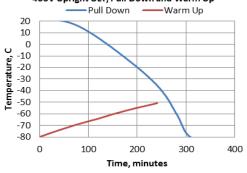
Electrical System Configuration						
Controller Level	Тор					
Power Switch	(Front) Soft-touch / (Rear) Main Circuit Breaker					
Controller Type	Capacitive Touch Screen Input and Display with USB Data Retrieval					
Setpoint Security	Yes					
Compressor Safe Guard	High Temp Cutout Switch, Current, Logic protection					
Control Sensor	Single RTD (1000 ohm Platinum RTD)					
Remote Alarm Terminals	RS485/4-20mA output					
Adjustable Warm/Cold Alarms	Fully Adjustable					
Auto-Voltage Safeguard	Buck/Boost System					

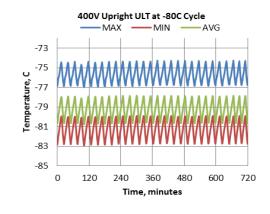
Refrigeration Configuration					
Refrigeration System	Two Stage Cascade System				
Compressor/Number	Industrial Rated, Hermetically Sealed / 2				
Compressor Capacity*	559 W				
Condenser Type	Enhanced Micro-Channel and Forced-Air Cooled				
Expansion Device	Capillary Tube				
Evaporator Type	Enhanced Cold Wall Design				
Defrost Method	Manual Defrost				
Refrigerant (1st/2nd Stage)	R290 / R170+R290 Mix				
Flammable	Yes				



Typical Performance Characteristics in 20 °C Ambient

400V Upright ULT, Pull Down and Warm Up





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 -35°C/45°C (Evap/Cond) condition.

For Australian/New Zealand Units: Due to different wiring regulations in Australia and New Zealand, a 10A dedicated ground circuit,

protected by a circuit breaker rated for inductive loads is required for this unit. The power cord is AS/NZS 3112: 10A (2.5m length).

Contact your local sales representative for more information.

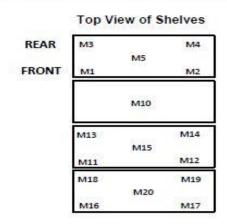
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ot all products are available in all countries. Please consult your local sales representative for details

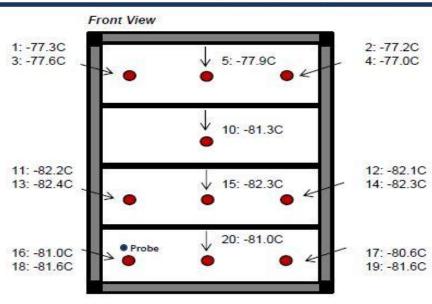


Typical Cabinet Temperature Map ULT 400, 3 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 cycles after reaching a setpoint of -80C



Cabinet Average: -80.5 C Probe Average: -81.2 C Peak Variation: +4.6 C / -3.8 C

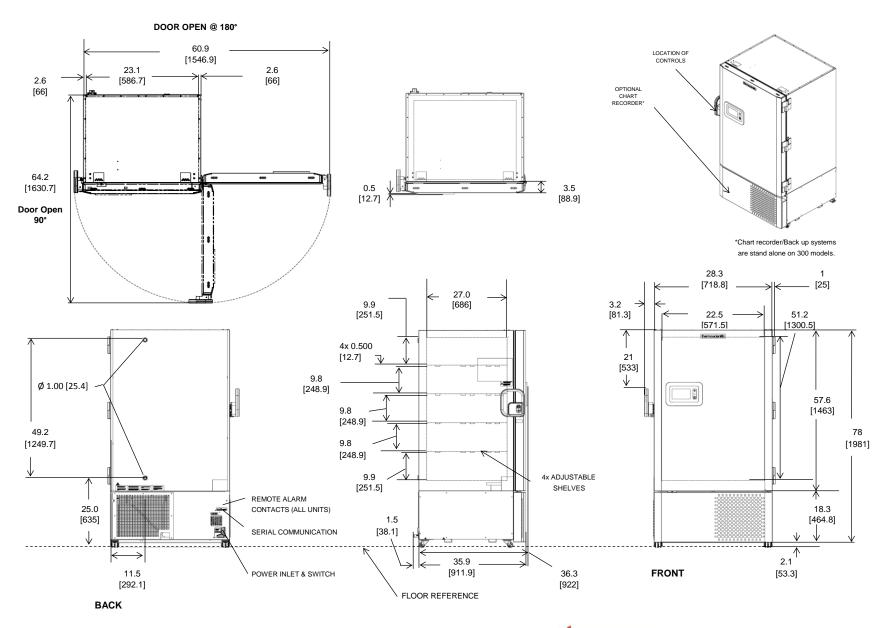


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	M1	M2	M3	M4	M5	M10	M11	M12	M13
Avg	-77.3	-77.2	-77.6	-77	-77.9	-81.3	-82.2	-82.1	-82.4
Max	-75.6	-75.6	-76	-75.4	-76.3	-79.7	-81	-80.9	-81.1
Min	-78.7	-78.6	-79.1	-78.5	-79.1	-82.6	-83.4	-83.2	-83.8

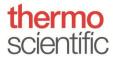
į,	M14	M15	M16	M17	M18	M19	M20
Avg	-82.3	-82.3	-81	-80.6	-81.6	-81.6	-81
Max	-80.9	-81.1	-79.9	-79.3	-80.3	-80	-79.9
Min	-83.6	-83.5	-82.4	-82.1	-83.2	-83.3	-82.4

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NOTE: DUAL DIMENSION IS INCH OVER METRIC

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



19 cuft Upright Freezer 5 Inner Doors

5 Inner Doors
Single Outer Door
Top Mount Controls