

Technical Data Sheet

Revco Ultra-Low Freezer Models ULT2586-3,5,9-D38 with Legaci™ Refrigeration System

Thermo Electron Corporation, Asheville, North Carolina

Specifications	Model Number		
	ULT2586-3-D38 (Value)	ULT2586-5-D38 (Elite)	ULT2586-9-D38 (Ultima II)
Application, Rating and Electrical Data			
Application	Storage of General Laboratory Materials		
Storage Volume	24.4 Cubic Feet / 691 Liters		
Temperature Rating	-50°C to -86°C @ 90°F(32 °C) Ambient		
Electrical Power	208-230/60/1		
Rated Amps/Breaker	10.0/15.0		
Power Plug/Power Cord Length	NEMA 6-15P / 10.0 Feet (3.05 Meters)		
Sound Pressure Level (dBA)	61.2 @ 5ft in front, 5 ft high		
Agency Listings	UL, CUL		
Indoor/Outdoor Usage	Indoor Use Only		
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 59° F-90° F (15-32°)C		
Refrigeration Configuration			
Refrigeration System	Legaci™ Cascade		
Compressor / Number	1.0 hp Copeland® Compressor: Legaci™ Design for Low Temperature Application / 2		
Condenser Type/Number	Enhanced Finned-Tube / Forced-Air Cooled / 1		
Expansion Device	Capillary Tube On First and Second Stages		
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment		
Defrost Method	Manual Defrost		
Refrigerant Charge	R134a/R404a in First Stage; R404a/R508b(Suva95) in Second Stage		
Controller/Electrical System Configuration and Features			
Controller Level	Lower		Eye Level
Power Switch	Keyed On-Off		
Controller Type	Microprocess Control	Microprocessor-Based IntrLogic™ Control	
Setpoint Security	N/A	N/A	Yes
Compressor Safe Guard	N/A	N/A	Yes
Control Sensor	Single RTD		
RS232/Remote Alarm Terminals	Remote Alarm Only	RS232/Remote Alarm Terminals	
Power Surge Protector	N/A	Standard	
Adjustable Warm/Cold Alarms	N/A	Standard Audible	
Auto-Voltage Safeguard	12 VAC Auto-Boost		
Dimensions and Construction			
Interior Dimensions	50.5"H X 24.25" F-B" X 34.5" W(128.3 H cm X 61.6 F-B cm X 87.6 W cm)		
Exterior Dimensions	77.5"H X 34.5" F-B X 44.5" W(197 H cm X 87.6 F-B cm X 113.0 W cm)		
Insulation	5 in. (12.7 cm) High Density HFC-blown Polyurethane Foam (R=42)		
Perimeter Heater/Cabinet Gasket	Hot Gas Halo Line / Silicone-Based High Performance Seal Gasket		
Shelves / Capacity	4 Stainless Steel Shelves Adjustable In 1" Increment; Maximum Capacity/Shelf: 100 Lbs.		
All-Direction Casters/Level Legs	Standard		
Ship Weight	Approximately 730 lbs. / 331 Kg		
Other Options	Electronic Recorder	Electronic Recorder and CO2 Back-Up System	
Typical Performance Characteristics in 32°C Ambient			
<p style="text-align: center;">2586 Average Pulldown and Warmup at 90 F Ambient</p>	<p style="text-align: center;">2586 -80 C Cycle Temperature at 90 F Ambient</p>	<p>Ambient: 32°C Load: Empty Sensor weighting: None Avg. stability: 2.2 °C Avg. Range: 8.5°C Cycle rate (on/off):13 Minutes /10.0 Minutes Avg. energy consumption: 21.0 kW-hr/day Avg. heat rejection: 2988 Btu/hr (876W) Temperature Range Specification: -70 C to -83 C Typical Temperature Range: -74 C to -82 C</p> <p style="text-align: right;">*Typical Performance Data</p>	
<p>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 omissions to this specification. Thermo Electron Corporation cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.</p>			