

Technical Data Sheet
Revco Ultra-Low Freezer Models ULT2586-3,5,9-V,W38 with Legaci™ Refrigeration System
 Thermo Electron Corporation, Asheville, North Carolina

Specifications	Model Number		
	ULT2586-3-V,W38 (Value)	ULT2586-5-V,W38 (Elite)	ULT2586-9-V,W38 (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	V Voltage: 220/1/50; "W" Voltage: 240/50/1
Rated Amps/Breaker	10.0/15.0
Power Plug/Power Cord Length	"V" Voltage: European 10/16-250 / 8.3 Feet (2.5 Meters)
Sound Pressure Level (dBA)	61.2 @ 5ft in front, 5 ft high
Agency Listings	CE
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 IntrLogi™ 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	Hot Gas Halo Line
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

Ambient: 32°C
 Load: Empty
 Sensor weighting: None
 Avg. stability: 2.2 °C
 Avg. Range: 7.5°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)

*Typical Performance Data

- 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.