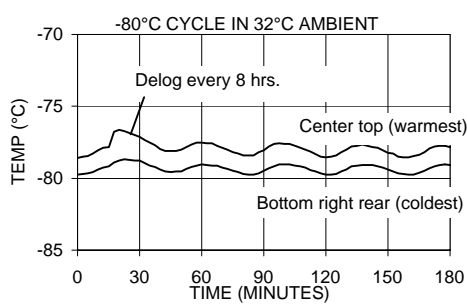
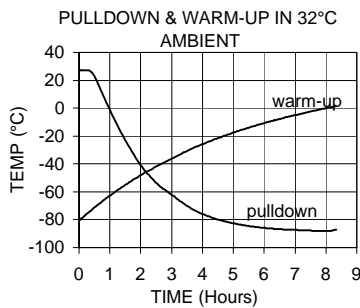


Technical Data Sheet
Revco Ultra-Low Freezer Models ULT2090-3,5,7,9-A31 with Legaci™ Refrigeration System
Kendro Laboratory Products, Asheville, North Carolin:

Specifications	Model Number		
	ULT2090-3-A31 (Value)	ULT2090-5-A31 (Elite)	ULT2090-7-A31 (Ultima) ULT2090-9-A31 (Ultima II)
Application, Rating and Electrical Data:			
Application	Storage of General Laboratory Materials		
Storage Volume	20.5 Cubic Feet / 580 Liters		
Temperature Rating	-40°C to -86°C @ 90°F(32 °C) Ambient		
Electrical Power	115V 60 Hz 1-phase		
Operating Amps/Breaker	16.0 / 20		
Power Plug/Power Cord Length	NEMA Ref. Plug 5-20P / 9ft		
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°		
Refrigeration Configurator			
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; R508b(Suva95) in Second Stag		
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	26.5"H X 19" F-B" X 70.5" W(67.3 H cm X 48.3 F-B cm X 179.1 W cm)		
Exterior Dimensions	41"H X 29" F-B X 95.5" W(104 H cm X 73.7 F-B cm X 242.6 W cm)		
Insulation	5 in. (12.7 cm) High Density HFC-blown Polyurethane Foam (R=42)		
Perimeter Heater	not required		
Shelves / Capacity	325 lb (150 kg)		
All-Direction Casters/Level Legs	Standard		
Ship Weight	Approximately 915 lbs. (415 Kg)		
Other Options	Electronic Recorder	Electronic Recorder and CO2 Back-Up System	

Performance Characteristics in 32°C Ambient



Ambient: 32°C
 Load: Empty
 Sensor weighting: 1.5ml
 Avg. stability: 1.0°C
 Avg. uniformity: 1.5°C
 Cycle rate (on/off): 25 minutes / 11 minutes
 Avg. energy consumption: 19.2 kW-hr/day
 Avg. heat rejection: 2737 Btu/hr (800 W)
 Reserve capacity: 142 Btu/hr @25°C ambient
 -80°C center air temperature

Test File: M37mrkt 2 1802vm 2E

- Performance is nominal and individual units may vary.
- Freezer performance will differ due to product amount, product size and operating conditions.
- Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Kendro Laboratory Products cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.