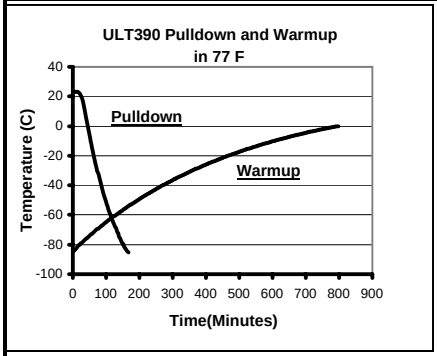
Technical Data Sheet

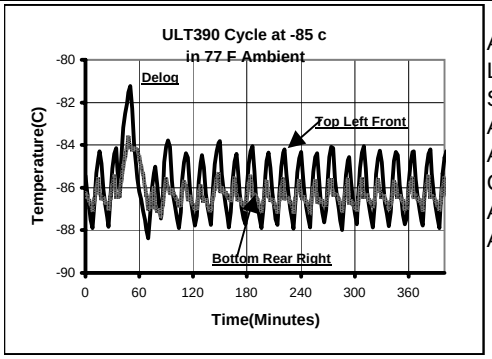
Revco Ultra-Low Freezer Models ULT390-3,5,9-A31

Kendro Laboratory Products, Inc., Asheville, North Carolin

Specifications	Model Number			
	ULT390-3-A31 (Value)	ULT390-5-A31 (Elite)		ULT390-9-A31 (Ultima II)
Application, Rating and Electrical Dat				
Application	Storage of General Laboratory Materials			
Storage Volume	3.1 Cubic Feet / 88 Liters			
Temperature Rating	-40°C to -86°C @ 90°F(32 °C) Ambient			
Electrical Power	115/60/1			
Rated Amps/Breaker	16.0/20.0			
Power Plug/Power Cord Length	NEMA 6-20P / ~ 8.3 Feet (2.5 Meters)		NEMA 6-20P/ ~ 7.0 Feet (2.1 Meters)	
Sound Pressure Level (dBA)	Apprx. 59 Dba @ 5ft in front, 5 ft high			
Agency Listings	UL, CUL, TUV, CE			
Indoor/Outdoor Usage	Indoor Use Only			
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 59° F-90° F (15-32°			
Refrigeration Configuratior				
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	Low			Low 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 Constructior				
Interior Dimensions	17 "H X 17" F-B" X 19" W(43 H cm X 43 F-B cm X 48 W cm)			
Exterior Dimensions	45.5"H X 27.0" F-B X 29.0" W(116 H cm X 69 F-B cm X 74 W cm)			
Insulation	5" High Density HFC Blown Foam			
Perimeter Heater	n/a			
Rack Capacity	Varies			
All-Direction Casters/Level Legs	Standard			
Ship Weight	Approximately 415 lbs. / 188 Kg			
Other Options	Electronic Recorder	Electronic Recorder and CO2 Back-Up Systen		

Typical Performance Characteristics in 25°C Ambien





Ambient: 25°C / 50% RH
Load: Empty
Sensor weighting: No
Avg. stability: 5.1°C
Avg. uniformity: 1.4°C
Cycle rate (on/off):10 Minutes /12 Minutes
Avg. energy consumption: 15.8 kW-hr/day
Avg. heat rejection: 2252 Btu/hr (660 W)

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. Kendro Laboratory Products cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.