



Technical Data Sheet High Performance Laboratory Purpose Refrigerator

Revision-10

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Model Number	
	REL 5004A (with 5C setpoint option – 7508TA)	
Application, Rating and Electrical Data		
Application	Laboratory Purpose (non-flammable) Refrigerator	
Storage Volume	1447 Liters/51.1 Cubic Feet	
Temperature Rating	1°C to 8°C	
Electrical Power	115V 60 Hz 1 Phase	
Instrument Rated Current	15.0 FLA	
Building Supply Rating	Breaker 20 Amps/115v±10 Volt while operating	
Power Plug/Power Cord Length	3.048 Meters (10 feet) 20 Amp Cord (5-20P)	
Agency Listings	CE	
Indoor/Outdoor Usage	Indoor Use Only	
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation	
Ambient Operating Temperature	15° C - 32° C (60° F - 90° F)	
Refrigeration Configuration		
Refrigeration System	Vapor compression system	
Compressor / Number	3/4 HP Hermetic Compressor / 1	
Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1	
Expansion Device	Capillary Tube	
Evaporator Type	Forced Air Evaporator Coil	
Defrost Method	Automatic Defrost	
Refrigerant Charge/Flammability	Environmentally Safe R134a	
Controller/Electrical System Configuration and Features		
Controller Level	Eye Level	
Power Switch	Keyed Off-On - Alarm	
Controller Type	IntrLogic Control System: Digital display, Graphic thermometer, Automatic defrost system	
Setpoint Security / Programmable	Yes / Yes	
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection	
Control Sensor	Stainless Steel Shielded RTD	
Remote Alarm Terminals	Yes	
Power Failure Alarm	Yes	
Standard Electronic chart Recorder	Optional	
Dimensions and Construction		
Interior Dimensions (H x D x W)	147.3 H X 73.7 F-B X 133.4 W cm (58.0 H X 29.0 F-B X 52.5 W in.)	
Exterior Dimensions (H x D x W)	201.2 H X 94.5 F-B X 143.5 W cm (79.2 H X 37.2 F-B X 56.5 W in.)	
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet	
Door Perimeter heater	Yes	
Shelves / Capacity	(8) Adjustable Wire Shelves / Max. Cap. per Shelf: 45 kg (100 lbs.)	
All-Direction Casters	Yes	
Ship Weight	265 kg / 585 lb.	
Access Port / Dia	Yes / 2" diameter	
Typical Performance Characteristics		
<p>50 cuft Upright Refrigerator, Pull Down and Warm Up</p> <p>— Pull Down — Warm Up</p>	<p>50 cuft Upright Refrigerator at 5C Cycle</p> <p>— MAX — MIN — AVG</p>	<p>Test Unit Series Number or MSO Number: 19334AA-T1-1</p> <p>Cabinet Load: Unloaded</p> <p>Average Cabinet Temp at 5C Cycle (C): 5.3</p> <p>Peak Variation from Setpoint (C): +2/-2.4</p> <p>Uniformity (C): 0.9</p> <p>Stability (C): 2.9</p> <p>1-min Door Opening Recovery to 5C (min): 3</p> <p>Duty Cycle at 5C (%): 38</p> <p>Cycle (on/off) rate at 5C (min): 5 / 8</p> <p>Energy Consumption (kw-hr/day): 11.1</p> <p>Heat Rejection Rate (btu/hr): 1574</p> <p>Pull Down Time (to 5C) (min): 28</p> <p>Warm Up Time (5C to 15C) (min): 282</p>
<p>1) Performance is nominal and individual units may vary.</p> <p>2) Freezer performance will differ due to product amount, product size and operating conditions.</p> <p>3) Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.</p>		

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