

Technical Data Sheet Chromatography Refrigerator

Thermo Fisher Scientific, Asheville, North Carolina

FRCR4504A Specifications Application, Rating and Electrical Data Application Chromatography (non-flammable) Refrigerator Storage Volume 1297 Liters/45.8 Cubic Feet Temperature Rating 1°C to 8°C @ 15°C to 32°C Ambient	Model Number	
Application Chromatography (non-flammable) Refrigerator Storage Volume 1297 Liters/45.8 Cubic Feet Temperature Rating 1°C to 8°C @ 15°C to 32°C Ambient		
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Temperature Rating 1°C to 8°C @ 15°C to 32°C Ambient		
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 UL, CuL, FDA		
Sound Pressure Level 60 dB(A)		
Indoor/Outdoor Usage Indoor Use Only		
Application Environment Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C -	32° C (60° F - 90° F)	
Refrigeration Configuration		
Refrigeration System Vapor compression system		
Compressor / Number 1/2 HP Hermetic Compressor / 1		
Condenser Type/Number Enhanced Finned-Tube and Forced-Air Cooled / 1		
Expansion Device Capillary Tube		
Evaporator Type Forced-Air Evaporator		
Defrost Method Microprocessor controlled off cycle every 1 hr. Programable interval, duration ar	nd temperature settings	
Refrigerant Charge/Flammability Environmentally Safe R134a	<u> </u>	
Controller/Electrical System Configuration and Feature	es	
Controller Level Eye Level		
Power Switch Keyed Off-On - Alarm		
Controller Type IntrLogic Control System: Digital display, Graphic thermometer, Automati	ic defrost system	
Setpoint Security / Programmable Yes / Yes		
Compressor Safe Guard High Pressure Cutout Switch/High Temp Cutout Switch/Current p	rotection	
Control Sensor Stainless Steel Shielded RTD weighted with 250ml ethylene glyco	l solution	
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 66.0 F-B X 132.0 W cm (58.0 H X 26.0 F-B X 52.0 V		
Exterior Dimensions (H x D x W) 196.9 H X 89.0 F-B X 144.0 W cm (77.5 H X 35.0 F-B X 56.5 V		
Insulation 5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in c	cabinet	
Door Perimeter heater		
Door Perimeter heater Yes		
Shelves / Capacity 6 Shelves		
Shelves / Capacity 6 Shelves All-Direction Casters Yes		
Shelves / Capacity 6 Shelves All-Direction Casters Yes Ship Weight 304 kg / 670 lb.		
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Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port Yes Typical Performance Characteristics 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C 45 ft³ +4 Refrigerator, 4C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle	de (C): 4.0	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port Yes Typical Performance Characteristics 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up Warm Up Min Avg Max Avg Cabinet Temp at +4 C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle Avg Cabinet Temp	de (C): 4.0	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C 45 ft³ +4 Refrigerator, 4C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle Cycle Avg Cabinet Temp at +4 C Cycle C	de (C): 4.0	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft³ +4 Refrigerator, 4C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle Avg Cabinet Temp at	de (C): 4.0 C): + 2.5 / - 2.9	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up Warm Up 10 Avg Cabinet Temp at +4 C Cycle Peak Variation from Setpoint (1)	de (C): 4.0 C): + 2.5 / - 2.9 1.6 3.8	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft³ +4 Refrigerator, 4C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle Avg Cabinet Temp at	de (C): 4.0 C): + 2.5 / - 2.9 1.6 3.8 s): 50.1%	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up Warm Up 10 Avg Cabinet Temp at +4 C Cycle Peak Variation from Setpoint (1)	de (C): 4.0 C): + 2.5 / - 2.9 1.6 3.8 s): 50.1% 6 / 6	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port 45 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up Avg Cabinet Temp at +4 C Cycle Average Uniformity (C): Average Stability (C): Duty Cycle at +4 C Setpoint (% Average Stability (C): Duty Cycle at +4 C Setpoint (% Average Stability (C): Duty Cycle at +4 C Setpoint (% Avg. energy consumption (kW Avg. energy consumption (kW) Avg. energy consumption (kW) Avg. energy consumption (kW)	de (C): 4.0 C): + 2.5 / - 2.9 1.6 3.8 a): 50.1% a): 6 / 6 /-hr/day): 11.4	
Shelves / Capacity All-Direction Casters Ship Weight 2" Dia access port Typical Performance Characteristics 45 ft² +4 Refrigerator, Pull Down and Warm Up at 25 C Pull Down Warm Up 45 ft² +4 Refrigerator, Pull Down and Warm Up at 25 C Min Avg Max Test Unit Series or MSO Numb Avg Cabinet Temp at +4 C Cycle at 25 C Ambient Avg Cabinet Temp at +4 C Cycle Avg Cabinet Temp at 40 C Cycle Avg Cabi	de (C): 4.0 C): + 2.5 / - 2.9 1.6 3.8 a): 50.1% a): 6 / 6 /-hr/day): 11.4 ir): 1619	

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. Thermo Scientific

1) Performance is nominal and individual units may vary.

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