

## Technical Data Sheet Chromatography Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Model Number		
FRCR7504V		
Application, Rating and Electrical Data		
Application	Chromatography (non-flammable) Refrigerator	
Storage Volume	2233 Liters/78.8 Cubic Feet	
Temperature Rating	1°C to 8°C @ 15°C to 32°C Ambient	
Electrical Power	220-240V 50 Hz 1 Phase	
Instrument Rated Current	10.5 FLA	
Building Supply Rating	Breaker 15 Amps/230v±10 Volt while operating	
Power Plug/Power Cord Length	European plug for V / IEC Cords, 3.048 Meters (10 feet)	
Agency Listings	CE, 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	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	
Defrost Method	Microprocessor controlled off cycle every 1 hr. Programmable interval, duration and temperature settings	
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 weighted with 250ml ethylene glycol 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 73.7 F-B X 205.0 W cm (58.0 H X 29.0 F-B X 81.0 W in.)	
Exterior Dimensions (H x D x W)	196.9 H X 91.0 F-B X 216.0 W cm (77.5 H X 35.5 F-B X 85.0 W in.)	
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet	
Door Perimeter heater	Yes	
Shelves / Capacity	10 Shelves	
All-Direction Casters	Yes	
Ship Weight	438 kg / 965 lb.	
2" Dia access port	Yes	
Typical Performance Characteristics		
<p>75 ft<sup>3</sup> +4 Refrigerator, Pull Down and Warm Up at 25 C</p>	<p>75 ft<sup>3</sup> +4 Refrigerator, 4C Cycle at 25 C Ambient</p>	<p>Test Unit Series or MSO Number: 18829-CB-AC</p> <p>Avg Cabinet Temp at +4 C Cycle (C): 3.8</p> <p>Peak Variation from Setpoint (C): + 2.8 / - 3.3</p> <p>Average Uniformity (C): 2.6</p> <p>Average Stability (C): 3.4</p> <p>Duty Cycle at +4C Setpoint (%): 59.8%</p> <p>Cycle (on/off) rate at +4C (min): 7 / 5</p> <p>Avg. energy consumption (kW-hr/day): 21.2</p> <p>Avg. heat rejection rate (Btu/hr): 3020</p> <p>Overall Pulldown Time (to +4C) (Min): 34.0</p> <p>Warmup Time (+4 to 15C) (minutes): 136</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>		