

Technical Data Sheet General Purpose Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Model Number	
FRGL7504A	
Application, Rating and Electrical Data	
Application	General Purpose (non-flammable) Refrigerator
Storage Volume	2231 Liters/78.8 Cubic Feet
Temperature Rating	1°C to 8°C @ 15°C to 32°C Ambient
Electrical Power	115V 60 Hz 1 Phase
Instrument Rated Current	16.0 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	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	12 Shelves
All-Direction Casters	Yes
Ship Weight	365 kg / 805 lb.
2" Dia access port	Yes
Typical Performance Characteristics	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>75 ft³ +4 Refrigerator, Pull Down and Warm Up at 25 C</p> </div> <div style="width: 45%;"> <p>75 ft³ +4 Refrigerator, 4C Cycle at 25 C Ambient</p> </div> <div style="width: 45%;"> <p>Test Unit Series or MSO Number: 18829-CB-AA</p> <p>Avg Cabinet Temp at +4 C Cycle (C): 3.3</p> <p>Peak Variation from Setpoint (C): + 3.2 / - 4.2</p> <p>Average Uniformity (C): 3.2</p> <p>Average Stability (C): 4.0</p> <p>Duty Cycle at +4C Setpoint (%): 52.9%</p> <p>Cycle (on/off) rate at +4C (min): 6 / 6</p> <p>Avg. energy consumption (kW-hr/day): 18.4</p> <p>Avg. heat rejection rate (Btu/hr): 2615</p> <p>Overall Pulldown Time (to +4C) (Min): 28.0</p> <p>Warmup Time (+4 to 15C) (minutes): 136</p> </div> </div>	
<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>	