



Technical Data Sheet

High Performance Laboratory Purpose Refrigerator

Revision-11

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Model Number																											
	FRGL404A(With 5C setpoint option - 7508TA)																											
Application, Rating and Electrical Data																												
Application	Laboratory Purpose (non-flammable) Refrigerator																											
Storage Volume	133 Liters/4.9 Cubic Feet																											
Temperature Rating	1°C to 8°C																											
Electrical Power	115V 60 Hz 1 Phase																											
Instrument Rated Current	8.0 FLA																											
Building Supply Rating	Breaker 15 Amps/115v±10 Volt while operating																											
Power Plug/Power Cord Length	3.048 Meters (10 feet) 20 Amp Cord (5-20P)																											
Agency Listings	UL																											
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	1/6 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	Ground Level																											
Power Switch	Keyed Off-On - Alarm																											
Controller Type	IntrLogic Control System: Digital display, Graphic thermometer, Automatic defrost system																											
Setpoint Security / Programmable	Standard / Standard																											
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection																											
Control Sensor	Stainless Steel Shielded RTD																											
Remote Alarm Terminals	Standard																											
Power Failure Alarm	Standard																											
Standard Electronic chart Recorder	Optional																											
Dimensions and Construction																												
Interior Dimensions (H x D x W)	50.8 H X 52.1 F-B X 50.8 W cm (20.0 H X 20.5 F-B X 20.0 W in.)																											
Exterior Dimensions (H x D x W)	85.0 H X 66.0 F-B X 61.0 W cm (33.4 H X 26.0 F-B X 24.0 W in.)																											
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet																											
Door Perimeter heater	Yes																											
Shelves / Capacity	(3) Adjustable Wire Shelves / Max. Cap. per Shelf: 45 kg (100 lbs.)																											
All-Direction Casters	Yes																											
Ship Weight	100 kg / 220 lb.																											
Access Port / Dia	Yes / 1" diameter																											
Typical Performance Characteristics																												
<p style="font-size: small;">4 cuft Upright Refrigerator, Pull Down and Warm Up</p> <p style="font-size: x-small;">— Pull Down — Warm Up</p>	<p style="font-size: small;">4 cuft Upright Refrigerator at 5C Cycle</p> <p style="font-size: x-small;">— MAX — MIN — AVG</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Test Unit Series Number or MSO Number:</td> <td style="text-align: right;">19199-PT-T4</td> </tr> <tr> <td>Cabinet Load:</td> <td style="text-align: right;">Unloaded</td> </tr> <tr> <td>Average Cabinet Temp at 5C Cycle (C):</td> <td style="text-align: right;">5.6</td> </tr> <tr> <td>Peak Variation from Setpoint (C):</td> <td style="text-align: right;">+2.9 / -2.9</td> </tr> <tr> <td>Uniformity (C):</td> <td style="text-align: right;">1.1</td> </tr> <tr> <td>Stability (C):</td> <td style="text-align: right;">4.4</td> </tr> <tr> <td>1-min Door Opening Recovery to 5C (min):</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Duty Cycle at 5C (%):</td> <td style="text-align: right;">33</td> </tr> <tr> <td>Cycle (on/off) rate at 5C (min):</td> <td style="text-align: right;">2 / 4</td> </tr> <tr> <td>Energy Consumption (kw-hr/day):</td> <td style="text-align: right;">4.2</td> </tr> <tr> <td>Heat Rejection Rate (btu/hr):</td> <td style="text-align: right;">599</td> </tr> <tr> <td>Pull Down Time (to 5C) (min):</td> <td style="text-align: right;">7</td> </tr> <tr> <td>Warm Up Time (5C to 15C) (min):</td> <td style="text-align: right;">165</td> </tr> </table>	Test Unit Series Number or MSO Number:	19199-PT-T4	Cabinet Load:	Unloaded	Average Cabinet Temp at 5C Cycle (C):	5.6	Peak Variation from Setpoint (C):	+2.9 / -2.9	Uniformity (C):	1.1	Stability (C):	4.4	1-min Door Opening Recovery to 5C (min):	2	Duty Cycle at 5C (%):	33	Cycle (on/off) rate at 5C (min):	2 / 4	Energy Consumption (kw-hr/day):	4.2	Heat Rejection Rate (btu/hr):	599	Pull Down Time (to 5C) (min):	7	Warm Up Time (5C to 15C) (min):	165
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<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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