



## Technical Data Sheet High Performance General Purpose Refrigerator

Revision-10

Thermo Fisher Scientific, Asheville, North Carolina

	<b>Model Number</b>																											
	FRGG1204V																											
<b>Specifications</b>	<b>Application, Rating and Electrical Data</b>																											
Application	General Purpose (non-flammable) Refrigerator																											
Storage Volume	326 Liters/11.5 Cubic Feet																											
Temperature Rating	1°C to 8°C																											
Electrical Power	220-240V 50 Hz 1 Phase																											
Instrument Rated Current	6.0 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																											
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)																											
	<b>Refrigeration Configuration</b>																											
Refrigeration System	Vapor compression system																											
Compressor / Number	1/3 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	R134a																											
	<b>Controller/Electrical System Configuration and Features</b>																											
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																											
	<b>Dimensions and Construction</b>																											
Interior Dimensions (H x D x W)	133.1 H X 55.3 F-B X 50.8 W cm (52.4 H X 21.7 F-B X 20.0 W in.)																											
Exterior Dimensions (H x D x W)	186.9 H X 74.8 F-B X 61.0 W cm (73.6 H X 29.4 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	(4) Adjustable Wire Shelves / Max. Cap. per Shelf: 45 kg (100 lbs.)																											
All-Direction Casters	Yes																											
Ship Weight	127 kg / 280 lb.																											
Access Port / Dia	Yes / 2" diameter																											
	<b>Typical Performance Characteristics</b>																											
<p style="text-align: center;"><b>12 ft<sup>3</sup> +4C Refrigerator, Pull Down &amp; Warm Up at 20C</b></p>	<p style="text-align: center;"><b>12 ft<sup>3</sup> Refrigerator, +4C Cycle at 20C</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Test Unit Series or MSO Number:</td> <td style="text-align: right;">19029-PT-T21rg</td> </tr> <tr> <td>Ref body weighting</td> <td style="text-align: right;">Un-Weighted</td> </tr> <tr> <td>Cabinet Load / Ambient Condition</td> <td style="text-align: right;">Empty / 20C</td> </tr> <tr> <td>Avg. Cabinet temp at Cycle at 35C (C):</td> <td style="text-align: right;">3.4</td> </tr> <tr> <td>Peak Variation from Set Point (C):</td> <td style="text-align: right;">1.9 / 3.2</td> </tr> <tr> <td>Uniformity/Sensitivity (C):</td> <td style="text-align: right;">2.0 / 3.0</td> </tr> <tr> <td>1-min Door Open Recovery to +4C (min):</td> <td style="text-align: right;">4</td> </tr> <tr> <td>Cycle (on/off) rate (minutes):</td> <td style="text-align: right;">3 / 6</td> </tr> <tr> <td>Duty Cycle (%):</td> <td style="text-align: right;">34.4%</td> </tr> <tr> <td>Avg. energy consumption (kW-hr/day):</td> <td style="text-align: right;">7.0</td> </tr> <tr> <td>Avg. heat rejection rate (Btu/hr):</td> <td style="text-align: right;">994</td> </tr> <tr> <td>Overall Pull Down to +4C (min):</td> <td style="text-align: right;">17</td> </tr> <tr> <td>Warm Up Time (4 to 10 C) (minutes):</td> <td style="text-align: right;">41</td> </tr> </table>	Test Unit Series or MSO Number:	19029-PT-T21rg	Ref body weighting	Un-Weighted	Cabinet Load / Ambient Condition	Empty / 20C	Avg. Cabinet temp at Cycle at 35C (C):	3.4	Peak Variation from Set Point (C):	1.9 / 3.2	Uniformity/Sensitivity (C):	2.0 / 3.0	1-min Door Open Recovery to +4C (min):	4	Cycle (on/off) rate (minutes):	3 / 6	Duty Cycle (%):	34.4%	Avg. energy consumption (kW-hr/day):	7.0	Avg. heat rejection rate (Btu/hr):	994	Overall Pull Down to +4C (min):	17	Warm Up Time (4 to 10 C) (minutes):	41
Test Unit Series or MSO Number:	19029-PT-T21rg																											
Ref body weighting	Un-Weighted																											
Cabinet Load / Ambient Condition	Empty / 20C																											
Avg. Cabinet temp at Cycle at 35C (C):	3.4																											
Peak Variation from Set Point (C):	1.9 / 3.2																											
Uniformity/Sensitivity (C):	2.0 / 3.0																											
1-min Door Open Recovery to +4C (min):	4																											
Cycle (on/off) rate (minutes):	3 / 6																											
Duty Cycle (%):	34.4%																											
Avg. energy consumption (kW-hr/day):	7.0																											
Avg. heat rejection rate (Btu/hr):	994																											
Overall Pull Down to +4C (min):	17																											
Warm Up Time (4 to 10 C) (minutes):	41																											
<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>																												

© 2016 Thermo Scientific Inc. All trademarks are the property of Thermo Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.