



Technical Data Sheet

Thermo Scientific 1.42 Cuft General Purpose Freezer

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Catalog Number																									
	02LFEETSA																									
Production Model Number	02LFEETSA																									
Application, Rating And Electrical Data																										
Application	1.42 Cuft General Purpose Freezer																									
Storage Volume	1.42 Cuft / 40.21 Liters																									
Temperature Rating	-12°C to -20°C																									
Electrical Power	85 Watts																									
Instrument Rated Current	1.2 Amps																									
Building Supply Rating	120VAC ±10% Of Normal Rated Line																									
Power Plug/Power Cord Length	6 Feet (1.828 Meters) NEMA 5-15P																									
Agency Listings	cCSAus																									
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	Vapour Compression System																									
Compressor / Number	Hermetic Compressor/1																									
Condenser Type/Number	Cold Wall With Enhanced Heat Transfer																									
Expansion Device	Capillary Tube																									
Evaporator Type	Foamed In Evaporator																									
Defrost Method	Manual Defrost																									
Refrigerant Charge/Flammability	Environmentally Safe R134a																									
Controller/Electrical System Configuration And Features																										
Controller Level	Chest Level																									
Power Switch	Not Present																									
Controller Type	Mechanical Thermostat																									
Setpoint Security / Programmable	No/Yes																									
Compressor Safe Guard	High Temp Cutout Switch / Overload Protector																									
Control Sensor	Capillary Tube																									
Remote Alarm Terminals	Not Present																									
Power Failure Alarm	Not Present																									
Data Logger / Chart Recorder	Not Present																									
Dimensions And Construction																										
Interior Dimensions (H x W x D)	37.16 H X 31.45 W X 36.83 D cms (14.63 H X 12.38 W X 14.5 D inches)																									
Exterior Dimensions (H x W x D)	51.13 H X 44.15 W X 48.26 D cms (20.13 H X 17.38 W X 19.0 D inches)																									
Insulation	Polyurethane Foam																									
Door Perimeter heater	Not Present																									
Shelves / Capacity	(1) Wire Shelf																									
All-Direction Casters	(2) Adjustable Feet In Front, (2) Fixed Pads In Rear																									
Ship Weight	55 lbs / 24.9 kg																									
Access Port / Dia	Not Present																									
Typical Performance Characteristics																										
<p>1.42 cuft Upright Freezer, Pull Down and Warm Up</p>	<p>1.42 cuft Upright Freezer at -20C Cycle</p>	<p>Test Unit Series Number or MSO Number: 19454-PC-T1</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Cabinet Load:</td> <td>Unloaded</td> </tr> <tr> <td>Average Cabinet Temp at -20C Cycle (C):</td> <td>-19.9</td> </tr> <tr> <td>Peak Variation from Setpoint (C):</td> <td>+3.4 / -3.6</td> </tr> <tr> <td>Uniformity (C):</td> <td>1.8</td> </tr> <tr> <td>Stability (C):</td> <td>5.3</td> </tr> <tr> <td>1-min Door Opening Recovery to -20C (min):</td> <td>9</td> </tr> <tr> <td>Duty Cycle at -20C (%):</td> <td>37</td> </tr> <tr> <td>Cycle (on/off) rate at -20C (min):</td> <td>7 / 12</td> </tr> <tr> <td>Energy Consumption (kw-hr/day):</td> <td>0.7</td> </tr> <tr> <td>Heat Rejection Rate (btu/hr):</td> <td>103</td> </tr> <tr> <td>Pull Down Time (to -20C) (min):</td> <td>31</td> </tr> <tr> <td>Warm Up Time (-20C to 0C) (min):</td> <td>78</td> </tr> </table>	Cabinet Load:	Unloaded	Average Cabinet Temp at -20C Cycle (C):	-19.9	Peak Variation from Setpoint (C):	+3.4 / -3.6	Uniformity (C):	1.8	Stability (C):	5.3	1-min Door Opening Recovery to -20C (min):	9	Duty Cycle at -20C (%):	37	Cycle (on/off) rate at -20C (min):	7 / 12	Energy Consumption (kw-hr/day):	0.7	Heat Rejection Rate (btu/hr):	103	Pull Down Time (to -20C) (min):	31	Warm Up Time (-20C to 0C) (min):	78
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<p>1) Performance is nominal and individual units may vary. 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 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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