



Technical Data Sheet

Thermo Scientific 3.5 Cuft General Purpose ADA Freezer

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Catalog Number																									
	04LFAETSA																									
	Production Model Number																									
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	Application, Rating And Electrical Data																									
Application	3.5 Cuft General Purpose ADA Freezer																									
Storage Volume	3.5 Cuft / 99.1 Liters																									
Temperature Rating	-15° to -25°C																									
Instrument Rated Current	1.5 Amps																									
Building Supply Rating	120VAC ±10% Of Normal Rated Line																									
Power Plug/Power Cord Length	6 Feet (1.828 Meters) NEMA 5-15P																									
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																									
Compressor / Number	Hermetic Compressor/1																									
Condenser Type/Number	Air Cooled Condenser With Natural Convection																									
Expansion Device	Capillary Tube																									
Evaporator Type	Shelf Evaporator																									
Defrost Method	Manual Defrost																									
Refrigerant Charge/Flammability	R134A																									
	Controller/Electrical System Configuration And Features																									
Controller Level	Knee level																									
Power Switch	Not Present																									
Controller Type	Digital Controller																									
Setpoint Security / Programmable	No/ Yes																									
Compressor Safe Guard	High Temp Cutout Switch / Overload Protector																									
Control Sensor	RTD																									
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)	24.3 X 17.8 X 16.5 inches (61.7 X 45.2 X 41.9 cm)																									
Exterior Dimensions (H x W x D)	32 X 23.63 X 23.5 inches (81.3 X 60 X 59.7 cm)																									
Insulation	Polyurethane Foam																									
Door Perimeter heater	Not Present																									
Shelves / Capacity	(3) Drawers																									
All-Direction Casters	No Casters, 4 Leveling Legs																									
Ship Weight	104 lbs / 47.2 kg																									
Access Port / Dia	Not Present																									
	Typical Performance Characteristics																									
<p>3.5 Cuft Upright Freezer, Pull Down and Warm Up</p>	<p>3.5 cuft Upright Freezer at -25C Cycle</p>	<p>Test Unit Series Number or MSO Number: 19248-BA-T5-3</p> <table style="width: 100%; border: none;"> <tr> <td>Cabinet Load:</td> <td style="text-align: right;">Unloaded</td> </tr> <tr> <td>Average Cabinet Temp at -25C Cycle (C):</td> <td style="text-align: right;">-19.2</td> </tr> <tr> <td>Peak Variation (-17.13C to -21.66C):</td> <td style="text-align: right;">4.53</td> </tr> <tr> <td>Uniformity (C):</td> <td style="text-align: right;">1.3</td> </tr> <tr> <td>Stability (C):</td> <td style="text-align: right;">2.9</td> </tr> <tr> <td>1-min Door Opening Recovery (min):</td> <td style="text-align: right;">7 (Approx)</td> </tr> <tr> <td>Duty Cycle at -25C (%):</td> <td style="text-align: right;">26</td> </tr> <tr> <td>Cycle (on/off) rate at -25C (min):</td> <td style="text-align: right;">2 / 5</td> </tr> <tr> <td>Energy Consumption (kw-hr/day):</td> <td style="text-align: right;">0.5</td> </tr> <tr> <td>Heat Rejection Rate (btu/hr):</td> <td style="text-align: right;">76</td> </tr> <tr> <td>Pull Down Time (to -25C) (min):</td> <td style="text-align: right;">39</td> </tr> <tr> <td>Warm Up Time (-25C to 0C) (min):</td> <td style="text-align: right;">161</td> </tr> </table>	Cabinet Load:	Unloaded	Average Cabinet Temp at -25C Cycle (C):	-19.2	Peak Variation (-17.13C to -21.66C):	4.53	Uniformity (C):	1.3	Stability (C):	2.9	1-min Door Opening Recovery (min):	7 (Approx)	Duty Cycle at -25C (%):	26	Cycle (on/off) rate at -25C (min):	2 / 5	Energy Consumption (kw-hr/day):	0.5	Heat Rejection Rate (btu/hr):	76	Pull Down Time (to -25C) (min):	39	Warm Up Time (-25C to 0C) (min):	161
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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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