



Technical Data Sheet

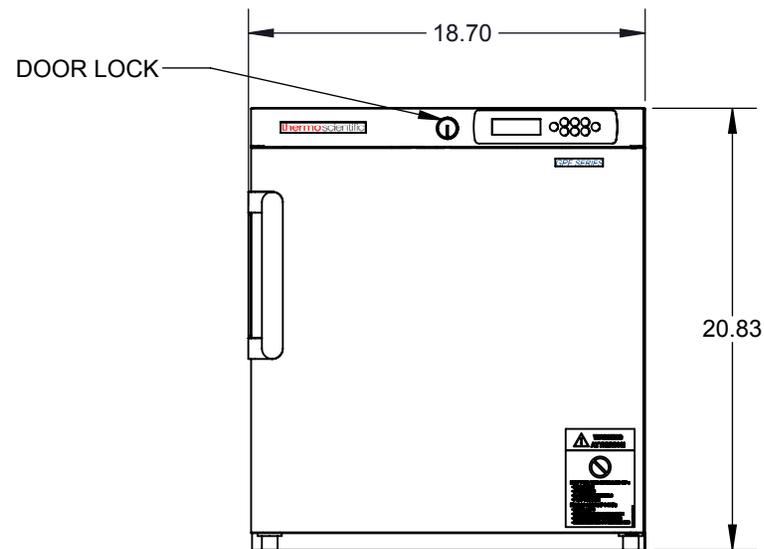
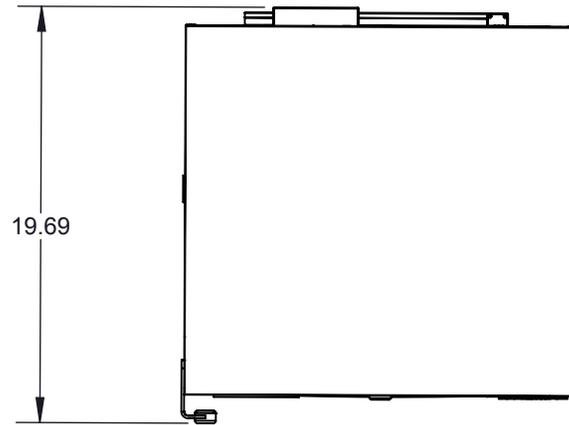
Thermo Scientific 1.1 cu ft General Purpose Freezer

Revision-3

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Catalog Number	
	MF02PA-SAAE-TS	
	Production Model Number	
	MF02PA-SAAE-TS	
	Application, Rating And Electrical Data	
Application	1.1 cu ft General Purpose Freezer	
Storage Volume	1.1 cu ft (32L)	
Factory Temperature Setpoint	-20°C	
Temperature Setpoint Range	-19°C to -21°C	
Electrical Power / Rated Current	115V 60 Hz/ 1.1A	
Building Supply Rating	115V/ 60Hz	
Power Plug/Power Cord Length	5-15P NEMA 3 Prong / 1.8m	
Agency Listings	cULus	
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 Cycle	
Compressor / Number	Hermetically Sealed compressor/ 1	
Condenser Type/Number	Foamed In Condenser/1	
Expansion Device	Capillary Tube	
Evaporator Type	Cold Wall Evaporator	
Defrost Method	Manual Defrost	
Refrigerant Charge/Flammability	R600a/ Flammable	
	Controller/Electrical System Configuration And Features	
Controller Level	Top Mounted	
Power Switch	Present	
Controller Type	Electronic Display	
Setpoint Security / Programmable	Yes/Yes	
Compressor Safe Guard	High Temp Cutout Switch / Overload Protector	
Control Sensor	Capillary Tube	
Remote Alarm Terminals	Present	
Power Failure Alarm	Not Present	
Data Logger / Chart Recorder	Not Present	
	Dimensions And Construction	
Interior Dimensions (H x W x D)	14.3" x 13.5" x 13.0" (36.3 x 34.2 x 33.0 cm)	
Exterior Dimensions (H x W x D)	20.8" x 18.7" x 19.7" (52.8 x 47.5 x 50.0 cm)	
Insulation	Cyclopentane	
Door Perimeter heater	Not Present	
Shelves	1 Wire Shelf, 1 Plastic Pan	
All-Direction Casters	2 Adjustable Front Feet	
Ship Weight	44.1 lbs (20kg)	
Access Port / Dia	Yes / 0.6 inch	
	Typical Performance Characteristics	
<p>1.1 cuft Upright Freezer, Pull Down and Warm Up</p> <p>— Pull Down — Warm Up</p>	<p>1.1 cuft Upright Freezer at -20C Cycle</p> <p>— MAX — MIN — AVG</p>	<p>Test Unit Series Number or MSO Number: 19430-AA-T2</p> <p>Cabinet Load: Unloaded</p> <p>Average Cabinet Temp at -20C Cycle (C): -22.6</p> <p>Peak Variation from Setpoint (C): +0.9/ -6.1</p> <p>Uniformity (C): 1.2</p> <p>Stability (C): 5.8</p> <p>1-min Door Opening Recovery to -20C (min): 5</p> <p>Duty Cycle at -20C (%): 37</p> <p>Cycle (on/off) rate at -20C (min): 9 / 16</p> <p>Energy Consumption (kw-hr/day): 0.4</p> <p>Heat Rejection Rate (btu/hr): 58</p> <p>Pull Down Time (to -20C) (min): 42</p> <p>Warm Up Time (-20C to 0C) (min): 101</p>
<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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1.1 Cu.Ft. FREEZER