



Technical Data Sheet

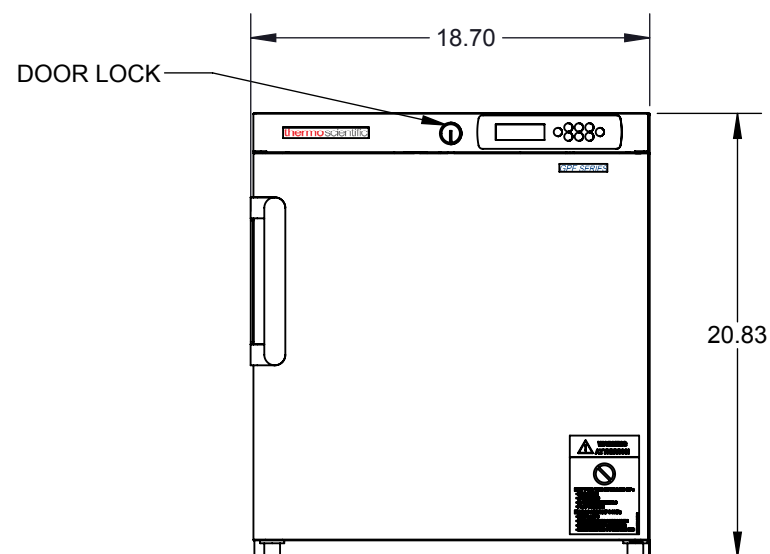
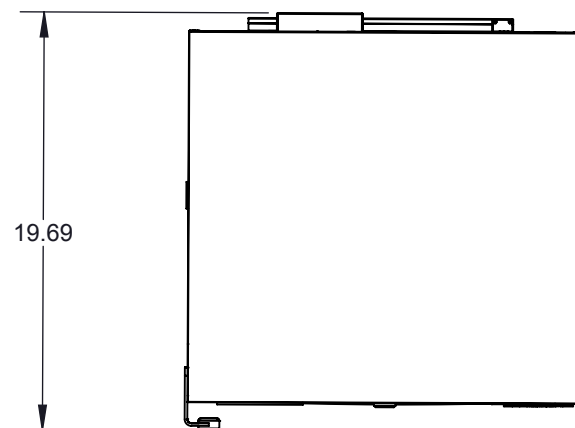
Thermo Scientific 1.1 cu ft General Purpose Freezer

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	
1.1 cuft Upright Freezer, Pull Down and Warm Up 1.1 cuft Upright Freezer at -20C Cycle Test Unit Series Number or MSO Number: 19430-AA-T2 Cabinet Load: Unloaded Average Cabinet Temp at -20C Cycle (C): -22.6 Peak Variation from Setpoint (C): +0.9 / -6.1 Uniformity (C): 1.2 Stability (C): 5.8 1-min Door Opening Recovery to -20C (min): 5 Duty Cycle at -20C (%): 37 Cycle (on/off) rate at -20C (min): 9 / 16 Energy Consumption (kw-hr/day): 0.4 Heat Rejection Rate (btu/hr): 58 Pull Down Time (to -20C) (min): 42 Warm Up Time (-20C to 0C) (min): 101	
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.	

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1.1 Cu.Ft. FREEZER