



Specifications	Catalog Number
	TSG505GA
	Model Number
	TSG505GA
Application, Rating and Electrical Data	
Application	General Purpose Undercounter Laboratory Grade Refrigerator
Storage Volume	5.5 cu. ft. (156 L)
Set Point Range/Adjustable in Increments of	+2°C to 9°C / 0.5°C
Electrical Power	100-240 V, 50-60 Hz
Instrument Rated Current	3.9 A
Building Supply Rating	Breaker 15 Amps/100-240 Volt While Operating
Power Plug/Power Cord Length	NEMA 5-15P, 1.828 Meters (6 Feet)
Agency Listings	cULus
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 10°C - 32°C (50°F - 90°F)
Refrigeration Configuration	
Refrigeration System	Thermoelectric Based Refrigeration System
Cooling System	125W Thermoelectric Heat Pump
Cold Side	Forced Air Design, R744 (CO ₂) as Refrigerant
Hot Side	Forced Air Heat-pipe Fin Tube Heat Exchanger with R718 (H ₂ O) as working fluid
Defrost Method	Adaptive Automatic Defrost
Controller/Electrical System Configuration and Features	
Controller Level	Waist Level
Power Switch	No
Controller Type	1.44" LCD non-touch display with separate capacitive touch buttons
Control Sensor	(1) Air Thermistor
Display Temperature Sensors	(1) Air Thermistor
Remote Alarm Terminals	Yes
Alarms	Yes, Audible and Visual (Temperature Range, Door Ajar, No Power, Battery Low)
Data Logger	No
Dimensions and Construction	
Interior Dimensions (H x D x W)	585 mm X 521 mm x 496 mm (23" x 20.5" x 19.5")
Exterior Dimensions (H x D x W)	813 mm X 661 mm x 600 mm (32" x 26" x 23.6")
Insulation	VIP, HFC-free Polyurethane Foam
Door Perimeter Heater	Yes
Shelves	(3) Adjustable
Leveling Feet	(4) Adjustable
Ship Weight	66 kg (145 lbs.)
Access port	Yes, Rear wall, Accommodates 25 mm probe
Typical Performance Characteristics	
5.5 cuft Undercounter Refrigerator, Pull Down and Warm Up 5.5 cuft Undercounter Refrigerator at 5C Cycle Cabinet Load: Average Cabinet Temp at 5C Cycle (C): Peak Variation (C): Uniformity (C): Stability (C): 3-min Door Opening Recovery to 8C (min): Energy Consumption (kw-hr/day): Heat Rejection Rate (btu/hr): Pull Down Time (to 5C) (min): Warm Up Time (5C to 15C) (min): Sound (dBA): Unloaded 4.91 0.86 0.73 0.13 13.7 1.12 158.93 55 175 35	

1) Performance is nominal and individual units may vary.

2) Refrigerator 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.

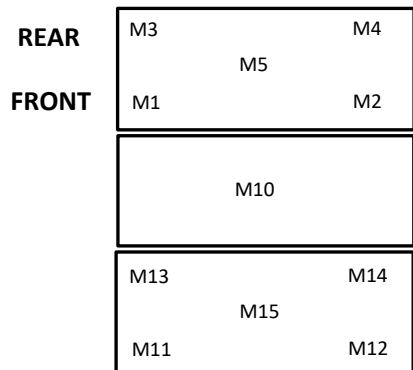
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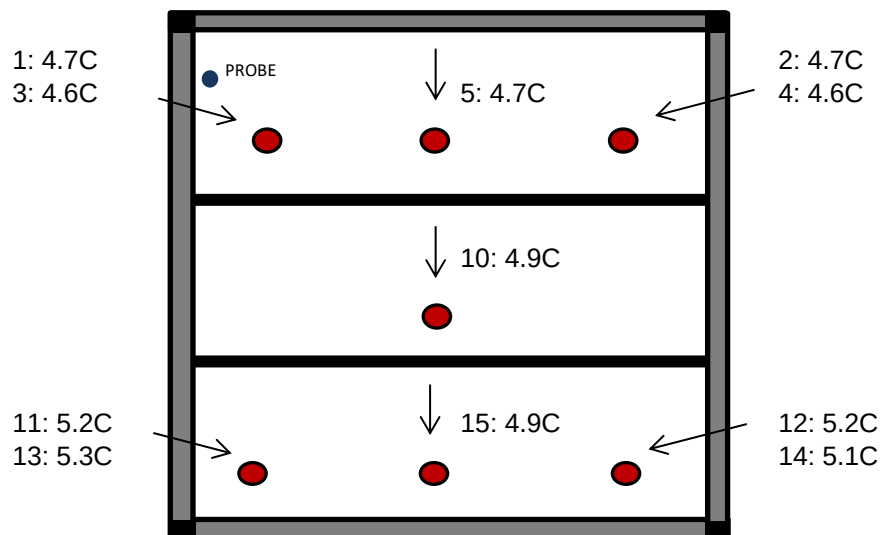
Typical Cabinet Temperature Map
Refrigerator 5cuft , 2 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 20
cycles after reaching a setpoint of 5C

Top View of Shelves

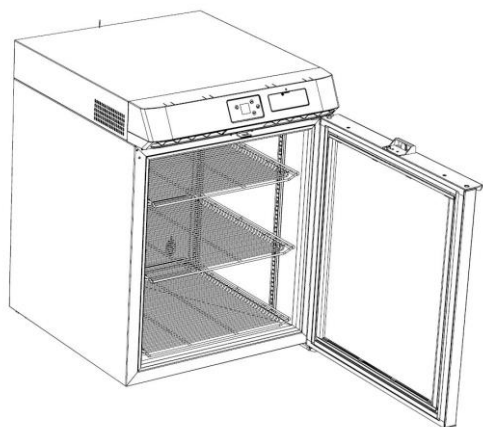


Cabinet Average: 4.9 C
Probe Average: 4.9 C
Peak Variation: 0.86 C

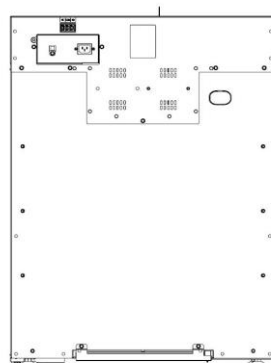


	M1	M2	M3	M4	M5	M10
Avg	4.7	4.7	4.6	4.6	4.7	4.9
Max	4.8	4.8	4.7	4.6	4.8	5
Min	4.7	4.7	4.6	4.5	4.7	4.8

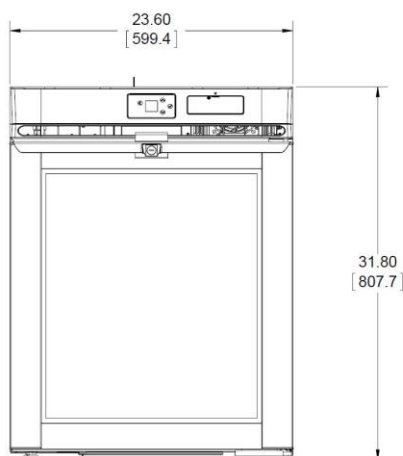
	M11	M12	M13	M14	M15
Avg	5.2	5.2	5.3	5.1	4.9
Max	5.2	5.3	5.4	5.2	5
Min	5.1	5.1	5.2	5	4.9



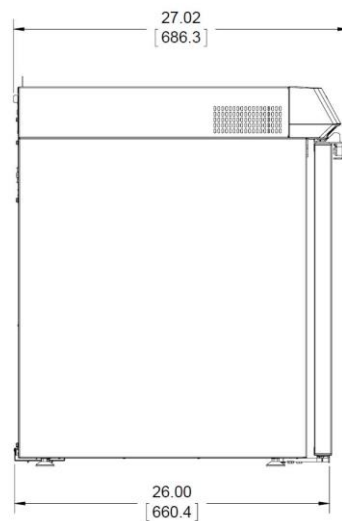
ISOMETRIC VIEW WITH DOOR OPEN



REAR VIEW



FRONT VIEW



SIDE VIEW

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GENERAL PURPOSE REFRIGERATOR