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Technical Data Sheet

Thermo Scientific General Purpose Refrigerator



	Revision-2 EN	ERGY STAR				
	Thermo Fisher Scientific, Asheville, North Carolina					
	Catalog Number					
	TSG505SA					
	Model Number					
	TSG505SA					
Specifications	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" I CD non-touch display with separate capacitive touch buttons					
Control Sensor	(1) Air Thermistor					
Display Temperature Sensors	(1) Air Thermistor					
Remote Alarm Terminals	Yes					
Alarms	Ves Audible and Visual (Temperature Range Door Aiar No Power Battery ow)					
Data Logger	No					
	Dimensions and Construction					
Interior Dimensions (H x D x W)	585 mm X 521 mm x 406 mm (23" x 20 5" x 10 5")					
Exterior Dimensions (H x D x W)	813 mm X 661 mm x 600 mm (20" x 26" x 23 6")					
Deer Perimeter Lester	VIP, HFC-tree Polyurethane Foam					
Chelues	Yes					
Sherves	(3) Adjustable					
Leveling Feet	(4) Adjustable					
Ship Weight	58 kg (128 lbs.)					
Access port	res, kear wall, Accomodates 25 mm probe					
1 I I I I I I I I I I I I I I I I I I I	i ypical Performance Characteristics					
Pull Down Warm Up	Tand 5.5 cuft Undercounter Refrigerator at 5C Cycle MAX MIN AVG Cabinet Load: Average Cabinet Temp at 5C Cycle (C): Peak Variation (C): Uniformity (C):	Unloaded 4.96 0.5 0.42				
La L	5.5 5 4.5 4 3.5 3 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):	0.11 12.7 0.82 116.41 50 252 35				

Time, minutes

100

5

0

50

1) Performance is nominal and individual units may vary.

150

200

250

Periodinance is noninnal and indicated units may ray.
 Refrigerator performance will differ due to product amount, product size and operating conditions.
 Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific

Time, minutes

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0 120 240 360 480 600 720

change. Not all products are available in all countries. Please consult your local sales representative for details.



Refrigerator 5cuft , 2 Inner-Shelves + Base, Single Outer Door

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



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

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

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ISOMETRIC VIEW WITH DOOR OPEN







FRONT VIEW

SIDE VIEW

DO NOT USE FOR ENGINEERING PURPOSES SUBJECT TO CHANGE WITHOUT NOTICE

GENERAL PURPOSE REFRIGERATOR