

Technical Data Sheet Thermo Scientific High Performance Refrigerator

Revision-2

Thermo Fisher Scientific, Asheville, North Carolina

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	Catalog Number						
	TSX505SV						
Specifications	Production Model Number TSX505SV Application, Rating And Electrical Data						
Application	5.5cf High Performance Laboratory Refrigerator						
Storage Volume	5.5cf(156L)						
Set Point Range/Adjustable in	+3°C to 7°C / 0.1°C						
Increments of							
Electrical Power	230V/50Hz						
Instrument Rated Current	5 Amps						
Building Supply Rating	Breaker 15 Amps/230v± 10%Volt While Operating						
Power Plug/Power Cord Length	EU SCHUKO,1.828 Meters (6 Feet)						
Agency Listings	CE, RoHS, Reach						
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	Thermoelectric Based Refrigeration System						
Cooling System	2 X 125W Thermoelectric Heat Pump Devices						
Cold Side	Hybrid cold wall / forced air with CO2 as refrigerant						
Hot Side	Forced Air Heat-pipe Fin Tube With Water As Refrigerant						
Defrost Method	Automatic						
	Controller/Electrical System Configuration And Features						
Controller Level	Waist Level						
Controller Type	Programmable and Integrated Full Colour LCD Touchscreen Controller, 4.3", 480 X272						
Control Sensor	(2) Open Air Thermisters						
Remote Alarm Terminal/Temp							
Alarms	Remote alarm contacts / Hi and Low audible and visual alarms						
Power Failure Alarm	Yes						
Data Logger	Yes, Built-In Data Logger. Data Accessible Through USB Device						
	Dimensions And Construction						
Interior Dimensions (H x W x D)	23" X 19.5" X 20.5" (58.4 X 49.5 X 52.07 cm)						
Exterior Dimensions (H x W x D)	31.80" X 23.60" X 27.02" (80.8 X 59.9 X 68.6 cm)						
Cabinet interior material	Aluminum						
Cabinet exterior material	Cold Rolled Steel, Powder coated						
Insulation	Vacuum Insulated Panels, Polyurethane Foam						
Door Perimeter heater	No						
Shelves	3 Adjustable Wire Shelves						
Shelf load capacity							
	OD IDS (30 KG) / SHEII						
Levelling Legs							
Levelling Legs Net weight / Ship Weight	4 Leveling legs with 1" Height adjustment						
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Net weight / Ship Weight Access Port	4 Leveling legs with 1" Height adjustment 119 / 155 lbs (54 / 70.3 KG) Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics @ 20C ambient Test Unit Series Number or MSO Number Test Unit Series Number or MSO Number Cabinet Load	19627-BA-T2 Unloaded					
Net weight / Ship Weight Access Port Scutt Refrigerator 20C ambinet, Pull Down And Warm U PD WU	4 Leveling legs with 1" Height adjustment 119 / 155 lbs (54 / 70.3 KG) Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics @ 20C ambient Test Unit Series Number or MSO Number Cabinet Load Average Cabinet Temp at 5C cycle (C):						
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Net weight / Ship Weight Access Port Scutt Refrigerator 20C ambinet, Pull Down And Warm to PD WU 25 20 20 21 31	4 Leveling legs with 1" Height adjustment 119 / 155 lbs (54 / 70.3 KG) Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics @ 20C ambient 5 cuft Refrigerator, 20C ambient, 5C cycle — Max — Min — Avg Cabinet Load Average Cabinet Temp at 5C cycle (C): Peak Variation from Set point (C): Heifarmit (C):	Unloaded 5.16 +1.03 / -0.94 0.42					
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- 1) Performance is nominal and individual units may vary.
- 2) 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
 cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.

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Typical Cabinet Temperature Map 5.5cuft V-volt Refrigerator, 3 Inner-Shelves , Single Outer Door

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

Top View of Shelves

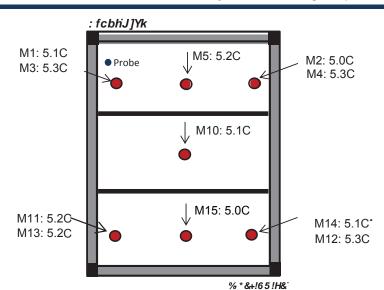
REAR

FRONT



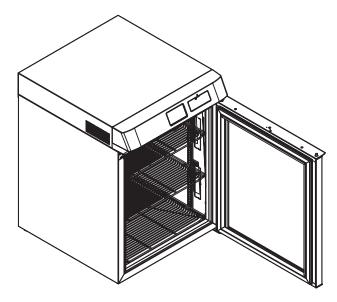
Cabinet Average : 5.16C Probe Average : 5.6C

Peak Variation: +1.03C / -0.94C

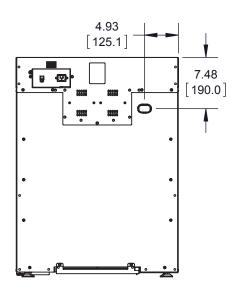


		M1	M2	M3	M4	M5	M10	
ı	Avg	5.1	5.0	5.3	5.3	5.2	5.1	
I	Max	6.0	6.0	5.9	5.9	5.9	5.9	
	Min	4.3	4.1	4.7	4.7	4.4	4.2	

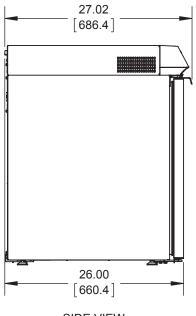
	M11	M12	M13	M14	M15		
Avg	5.2	5.3	5.2	5.1	5.0		
Max	6.0	6.0	5.9	5.9	5.9		
Min	4.3	4.7	4.5	4.4	4.2		



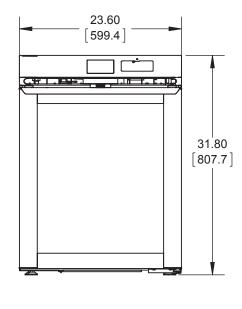
ISOMETRIC VIEW WITH DOOR OPEN







SIDE VIEW



FRONT VIEW

NOTE: DUAL DIMENSION IS INCH OVER METRIC

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