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Technical Data Sheet

Thermo Scientific High Performance Refrigerator

Revision-1

Thermo Fisher Scientific, Asheville, North Carolina

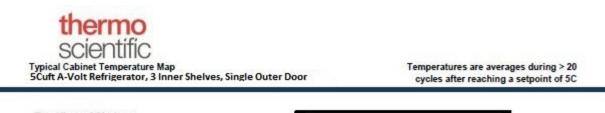
	Thermo Fisher Scientific, As					
	Catalog Number					
		(505SA				
Specifications		Model Number				
	TSX505SA					
	Application, Rating And Electrical Data					
Application	-	ce Laboratory Refrigerator				
Storage Volume		of(156L)				
Temperature Rating		C to 8°C				
Electrical Power		V/60Hz				
Instrument Rated Current		Amps				
Building Supply Rating		± 10%Volt While Operating				
Power Plug/Power Cord Length		828 Meters (6 Feet)				
Agency Listings		UL				
Indoor/Outdoor Usage		Use Only				
Application Environment		Non-Explosive, Good Air Ventilation				
Ambient Operating Temperature		C (60° F - 90° F)				
	Refrigeration Configuration					
Refrigeration System		ed Refrigeration System				
Cooling System		ric Heat Pump Devices				
Cold Side	Hybrid cold wall / forced	l air with CO2 as refrigerant				
Hot Side	Forced Air Heat-pipe Fin Tu	ube With Water As Refrigerant				
Defrost Method	Automatic					
	Controller/Electrical System	m Configuration And Features				
Controller Level	Wai	st Level				
Power Switch	No					
Controller Type	Programmable and Integraed Full Colour LCD Touchscreen Controller, 4.3", 480 X272					
Control Sensor	(2) Air Thermisters					
Remote Alarm Terminals	Yes, Audible & Visual					
Power Failure Alarm	Yes					
Data Logger / Chart Recorder		a Accessible Through USB Device				
		And Construction				
Interior Dimensions (H x W x D)		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)					
Insulation	VIP, Polyurethane Foam					
Door Perimeter heater	No					
Shelves	3 Adjustable Wire Shelves					
Levelling Legs	4 Leveling legs with 1" Height adjustment					
Ship Weight		55 lbs				
Access Port	Yes, Rear wall, Accommodates 25mm Probe					
	Typical Performance Characteristics					
Scuft Refrigerator 20C ambinet, Pull Down And Warm Up	5 cuft Refrigerator, 20C ambient, 5C cycle	Test Unit Series Number or MSO Number	19627-BA-T2			
25	Max Min Avg	Cabinet Load	Unloaded			
20	7.0	Average Cabinet Temp at 5C cycle (C):	5.16			
15	- U	Peak Variation from Set point (C):	+1.03/-0.94			
10		Uniformity (C):	0.42			
² s		Stability (C): 1-min Door Opening Recovery to 5C (min):	1.58 8			
0 50 100 150 200	250 3.0	Energy Consumption (kw-hr/day):	2.7			
0 50 100 150 200 Time, Minutes	250 2.0	Heat Rejection Rate (btu/hr):	260.2			
time, windles						
Time, minutes	1 51 101 151 201 251 301 351 401 451	Pull Down Time (to 5C) (min):	55			

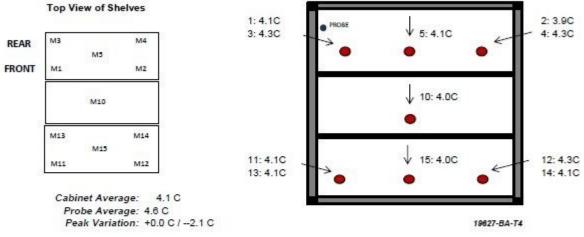
2) Freezer performance will differ due to product amount, product size and operating conditions.

3) Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific

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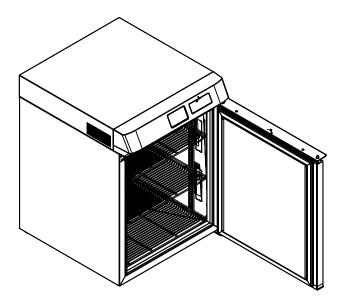




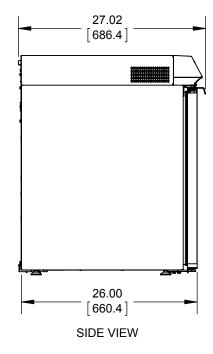
	M1	M2	M3	M4	M5	M10
Avg	4.1	3.9	4.3	4.3	4.1	4
Max	5	5	5	5	4.9	4.9
Min	3.2	2.9	3.6	3.6	3.4	3.2

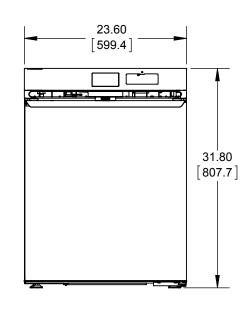
	M11	M12	M13	M14	M15
Avg	4.1	4.3	4.1	4.1	4
Max	5	5	5	4.9	4.9
Min	3.3	3.6	3.4	3.3	3.1

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HIGH PERFORMANCE REFRIGERATOR