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Technical Data Sheet

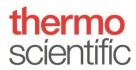
General Purpose Refrigerator 700L

Revision-A

	Model Number					
Specifications	TSG700REGBW					
	Application, Rating and Electrical Data					
Application	Storage of General (non-flammable) Laboratory Materials					
Storage Volume	620Liters / 21.9 Cul	oic Feet				
Factory Set Point	+5 °C					
Set Point / Increment	+5 °C / 0.1 °C					
Electrical Power / Rated Current	230V 50 Hz 1 Phas	e / 1.6A				
Building Supply Rating	13A 250V	(40.5 0)				
Power Plug/Power Cord Length	13 Amp 250V / 4 Mete	rs (13 feet)				
Agency Listings	CE					
Standards and directives	2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/6					
Electromagnetic Compatibility	Emissions (Class A), Immunity (Ir					
Indoor/Outdoor Usage	Indoor Use Or					
Application Environment	Non-Corrosive, Non-Flammable, Non-Ex					
Ambient Operating Temperature	15° C to 32° C (59° F	,				
	Refrigeration Confi					
Refrigeration System		apor compression system				
Compressor / Number / Capacity	Single speed / 1 /					
Condenser Type/Number	Forced-Air Cooled Finned-Tube C	•				
Expansion Device	Capillary Tub					
Evaporator Type / Defrost Method	Forced Air Finned-Tube Coil Heat Excl					
Refrigerant Charge / Flammability	R290,90gms,GWP:3 ODP					
Controller Level	Controller/Electrical System Conf	iguration and Features				
Controller Level	Eye Level On the Controller Main Screen					
Power Switch						
Controller Type Setpoint Security / Programmable	Electronic Controller with	LCD display				
Compressor Safe Guard	Yes / Yes					
Control Sensor	Overload Protection (OLP) NTC Probe					
Connectivity / Remote OutputsTerminals	Dry Contact (NO and NC)					
Adjustable Warm / Cold Alarms	Fully Adjustab					
Power Failure Alarm	Acoustic and Vi					
Electronic Chart Recorder	Not Provided					
	Dimensions and Cor					
Interior Dimensions (H x D x W)	1505 mm x 686 mm x 600 mm (
Exterior Dimensions (H x D x W)	2085 mm x 840 mm x 750 mm (8					
Insulation	Polyurethane Foam 75					
Door Perimeter heater	No	,				
Shelves / Load Limit	4 Shelves / 30kg (66 lbs	s) per Shelf				
Casters	2 Lockable Castors at the front & 2 F	Fixed Castors at the rear				
Non-Crated Shipping Weight	162kgs / 357.1	lbs				
11 0 0	Typical Performance Characteristics					
Set Point 5°C @ 20°C Ambient	Set Point 5°C @ 20°C Ambient	Test Unit Series Number or MSO Number: 20297-A-8-5				
Charles and the state of the control	1 Approved the second of the control	2020, 7, 0				
19 18	15 — MIN — MAX — AVG	Cabinet Load: Unloaded Average Cabinet Temp (C): 5.22				
0 16 0 15	© 12 ≝ 10	Peak Variation from Setpoint (C): -3.61/2.75				
20 — Pulldown — Warmup 19 18 15 15 15 14 14 12 12 12 12 12 12 12 12 12 12 12 12 12	Temperature 1 Te	Uniformity (C): 1.85 Stability (C): 2.95				
12 de 11		1-min Door Opening Recovery(min): 6 Cycle on Time(%): 20				
ž 10	Cycl					
876	ㅋ 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 구 전 표 전 지 모 전 표 전 표 전 표 전 표 전 표 전 표 전 표 전 표 전 표 전					
5	Time (min) Pull Down Time to setroint (Min) 27					
1 11 21 31 41 51 61 71 81 91 101 111 121 131 141 Time (min)	At 5C Cycle	Warm Up Time to 15°C (min): 136				
Pull Down and Warm Up		Sound (dBA): 48.2				
Performance is nominal and individual units may vary.						

1)Performance is nominal and individual units may vary.
2)Product 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 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 22cuft , 4 Inner-Shelves + Base, Single Outer Door

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

Top View of Shelves

REAR

FRONT

M3 M4 M5 M1 M2

M13 M14 M15 M11 M12

M10

M20 M24 M25

M22

3: 5.5C

1: 6.2C

11: 5.4C 13: 4.7C

21: 5.3C

23: 4.7C

Probe 5: 5.9C 2: 6.0C 4: 5.5C 4: 5.5C 12: 5.2C 14: 4.4C 20: 4.7C 22: 5.1C 24: 4.7C

20297-A-8-5

Cabinet Average: 5.1 C Probe Average: 6.8 C

M23

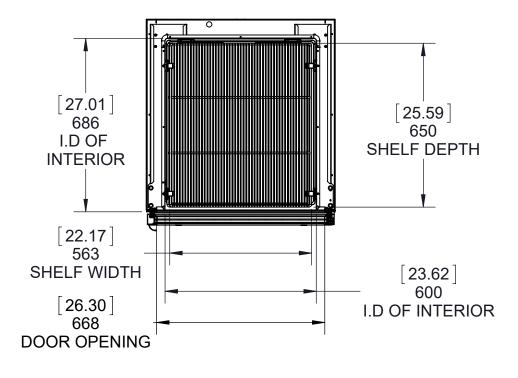
M21

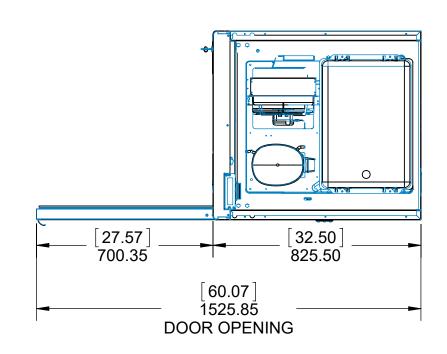
Peak Variation: +2.3 C / -3.7 C

	M1	M2	M3	M4	M5	M10	M11	M12	M13
Avg	6.2	6	5.5	5.5	5.9	5.2	5.4	5.2	4.7
Max	7.4	7.4	7.1	7.1	7.3	6.5	6.4	6.4	6
Min	4.3	3.4	2.2	1.6	3.2	3.1	3.6	3.4	2.3

		M14	M15	M20	M21	M22	M23	M24	M25
I	Avg	4.4	4.9	4.7	5.3	5.1	4.7	4.7	4.7
ſ	Max	6	6	5.9	6.3	6.3	5.9	5.8	5.8
ſ	Min	1.3	3.1	2.9	3.4	2.6	2.3	2.8	2.5

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SECTION A-A

