

## **Technical Data Sheet** General Purpose Refrigerator 1500L

Revision-A

	Model Numbe					
Specifications	TSG1500RESC					
	Application, Rating and E					
Application	Storage of General (non-flammable					
Storage Volume	1355Liters /47.8 Cub	pic Feet				
Factory Set Point	+5 °C					
Set Point / Increment	+5 °C / 0.1 °C					
Electrical Power / Rated Current	230V 50 Hz 1 Phase	e / 1.6A				
Building Supply Rating	13A 250V					
Power Plug/Power Cord Length	13 Amp 250V / 4 Meters (13 feet)					
Agency Listings	CE					
Standards and directives	2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65					
Electromagnetic Compatibility	Emissions (Class A), Immunity (Inc					
Indoor/Outdoor Usage	Indoor Use On					
Application Environment	Non-Corrosive, Non-Flammable, Non-Exp					
Ambient Operating Temperature	15° C to 32° C (59° F					
	Refrigeration Config					
Refrigeration System	Vapor compression :					
Compressor / Number / Capacity	Single speed / 1 / 2					
Condenser Type/Number	Forced-Air Cooled Finned-Tube Co	oil Heat Exchanger / 1				
Expansion Device	Capillary Tube					
Evaporator Type / Defrost Method	Forced Air Finned-Tube Coil Heat Exch					
Refrigerant Charge / Flammability	R290,100gms,GWP:3 ODP:					
	Controller/Electrical System Config	guration and Features				
Controller Level	Eye Level					
Power Switch	On the Controller Mair					
Controller Type	Electronic Controller with	LCD display				
Setpoint Security / Programmable	Yes / Yes					
Compressor Safe Guard	Overload Protection	(OLP)				
Control Sensor	NTC Probe					
Connectivity / Remote OutputsTerminals	Dry Contact (NO an					
Adjustable Warm / Cold Alarms	Fully Adjustabl					
Power Failure Alarm	Acoustic and Vis					
Electronic Chart Recorder	Not Provided					
	Dimensions and Con					
Interior Dimensions (H x D x W)	1510 mm x 690 mm x 1300 mm (					
Exterior Dimensions (H x D x W)	2082 mm x 827 mm x 1440 mm (8	,				
Insulation	Polyurethane Foam 70 N	MM (2.75")				
Door Perimeter heater	Yes					
Shelves / Load Limit	8 Shelves / 30kg (66 lbs	s) per Shelf				
Casters	2 Lockable Castors at the front & 2 F	ixed Castors at the rear				
Crated Shipping Weight	268kgs / 590.8 I	bs				
	Typical Performance Cha	aracteristics				
Set Point 5°C @ 20°C Ambient	Set Point 5°C @ 20°C Ambient — MIN — MAX — AVG					
— Pulldown — Warmup	16 Sections 5 6 25 6 Ambient	Test Unit Series Number or MSO Number: 20297-A-11-5				
19	34.	Cabinet Load: Unloaded Average Cabinet Temp (C): 5.1				
Û 15	⊕ 10 P	Peak Variation from Setpoint (C): -3.94/2.1				
2 14 2 13	g 10.	Uniformity (C): 1.85 Stability (C): 3.75				
2 12 2 11	* · AAAAAAAAAAAAAAAA	1-min Door Opening Recovery(min): 4.75				
19 18 17 10 15 15 11 11 11 11 11 11 11 11 11 11 11		Cycle on Time(%): 18 Cycle (on/off) Time (min): 3.73/16.76				
7	Energy Consumption (kw-hr/day					
	Heat Rejection Rate (btu/hr): Pull Down Time to setpoint:(Min)					
1 21 41 61 81 101 121 141 161 181 201 221 241 Time (min)	1 21 41 61 81 101121141161181201221241261281301321341361381401421441	Warm Up Time to 15°C (min): 242				
Pull Down and Warm Up	At 5C Cycle Time (min)	Sound (dBA): 50.3				
Performance is nominal and individual units may vary.						

<sup>1)</sup>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 48cuft , 4 Inner-Shelves + Base, 2 Outer Doors

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

## **Top View of Shelves**

REAR

**FRONT** 

М3		M4	M53	M54		
	M5		M55			
M1		M2	M51	M52		
	M10			M60		
M13		M14	M63	M64		
	M15			M65		
M11		M12	M61	M62		
	M20			M70		
M23		M24	M73	M74		
	M25		M75			
M21		M22	M71	M72		

Front View



20297-A-11-5

Cabinet Average: 5.1 C Probe Average: 7.4 C

Peak Variation: +1.9 C / -3.7 C

	M1	M2	M3	M4	M5	M10
Avg	4.7	4.8	5	4.8	5.2	5.1
Max	6.7	6.8	6.8	6.7	6.8	6.2
Min	1.3	1.5	3.1	2	3.7	3.7

	M11	M12	M13	M14	M15	M20
Avg	5	5.4	4.8	4.5	5.2	5.2
Max	6.5	6.7	6	6	6.2	6.2
Min	2.4	3.2	2.6	1.6	4	4.1

_		M21	M22	M23	M24	M25
	Avg	5.6	5.7	5	4.4	4.9
	Max	6.9	6.6	6	5.6	6.1
	Min	3.9	4.2	3.4	2.1	3

	M51	M52	M53	M54	M55	M60
Avg	5.2	4.8	4.9	4.9	5.3	5.1
Max	6.9	6.8	6.8	6.8	6.8	6.3
Min	2.9	1.7	2.2	2.3	3.7	3.5

	M61	M62	M63	M64	M65	M70
Avg	5.4	5.7	4.7	4.7	5.1	5.1
Max	6.4	6.6	6	6	6.1	6.1
Min	4.1	4.5	2.4	2.2	3.7	3.8

	M71	M72	M73	M74	M75
Avg	5.8	5.7	4.8	5	5
Max	6.7	6.9	5.8	6	6.1
Min	4.3	4	3.2	3.3	3.1

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