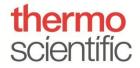
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## Technical Data Sheet

General Purpose Refrigerator 1500L Revision-A

	Revision-A					
	Model Number					
Specifications	TSG1500RESBW					
	Application, Rating and El	lectrical Data				
Application	Storage of General (non-flammable	) Laboratory Materials				
Storage Volume	1355Liters /47.8 Cub	ic 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	s (13 feet)				
Agency Listings	CE					
Standards and directives	2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65	5/UE, 2015/863/EU & 2012/19/EU				
Electromagnetic Compatibility	Emissions (Class A), Immunity (Ind	dustrial Environment)				
Indoor/Outdoor Usage	Indoor Use Onl					
Application Environment	Non-Corrosive, Non-Flammable, Non-Exp	5				
Ambient Operating Temperature	15° C to 32° C (59° F t					
-1 5 1	Refrigeration Config					
Refrigeration System	Vapor compression s					
Compressor / Number / Capacity	Single speed / 1 / 2					
Condenser Type/Number	Forced-Air Cooled Finned-Tube Co					
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					
Controller Level	Eye Level					
Power Switch	On the Controller Mair	Screen				
Controller Type	Electronic Controller with					
Setpoint Security / Programmable	Yes / Yes					
Compressor Safe Guard	Overload Protection (OLP)					
Control Sensor	NTC Probe	(021)				
Connectivity / Remote OutputsTerminals	Dry Contact (NO an	d NC)				
Adjustable Warm / Cold Alarms	Fully Adjustable					
Power Failure Alarm	Acoustic and Vis					
Electronic Chart Recorder	Not Provided					
	Dimensions and Cons	struction				
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					
	Polyurethane Foam 70 M	,				
Insulation	Yes	IM (2.75)				
Door Perimeter heater Shelves / Load Limit	8 Shelves / 30kg (66 lbs	) por Sholf				
Casters	2 Lockable Castors at the front & 2 Fi					
Non-Crated Shipping Weight	225kgs / 496 lb					
	Typical Performance Cha	aracteristics				
Set Point 5°C @ 20°C Ambient	Set Point 5°C @ 20°C AmbientMINAVG	Test Unit Series Number or MSO Number: 20297-A-				
20 Pulldown Warmup 29	16					
18	14	Cabinet Load: Unload Average Cabinet Temp (C): 5.1				
16	0 12 • 10	Peak Variation from Setpoint (C): -3.94/2				
14 13	8 ature 10	Uniformity (C): 1.65 Stability (C): 3.75				
12	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1-min Door Opening Recovery(min): 4.75				
18 17 16 13 14 11 11 11 11 10 9 8		Cycle (on/off) Time (min): 3.73/16.				
3	2	Energy Consumption (kw-hr/day): 3.69				
	a	Heat Rejection Rate (btu/hr): 509 Pull Down Time to setpoint:(Min) 21.5				
§ X						
6 1 21 41 61 81 101 121 141 161 181 201 221 241 Time (min)	1 21 41 61 81 101 121 141 161 181 201 221 241 261 281 301 321 341 361 381 401 421 441 At 5C Cycle Time (min)	Warm Up Time to 15°C (min): 242 Sound (dBA): 50.3				

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Typical Cabinet Temperature Map Refrigerator 48cuft , 4 Inner-Shelves + Base, 2 Outer Doors

**Top View of Shelves** 

REAR	M3		M4	M53	M54
	M5				M55
FRONT	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

 M1
 M2

 Avg
 4.7
 4.8

 Max
 6.7
 6.8

 Min
 1.3
 1.5

	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

M3

5

6.8

3.1

_		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

20297-A-11-5

Cabinet Average: 5.1 C Probe Average: 7.4 C Peak Variation: +1.9 C / -3.7 C

Front View

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

M4

4.8

6.7

2

M5

5.2

6.8

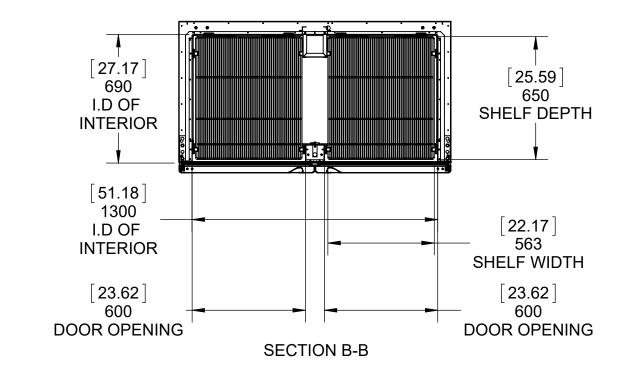
3.7

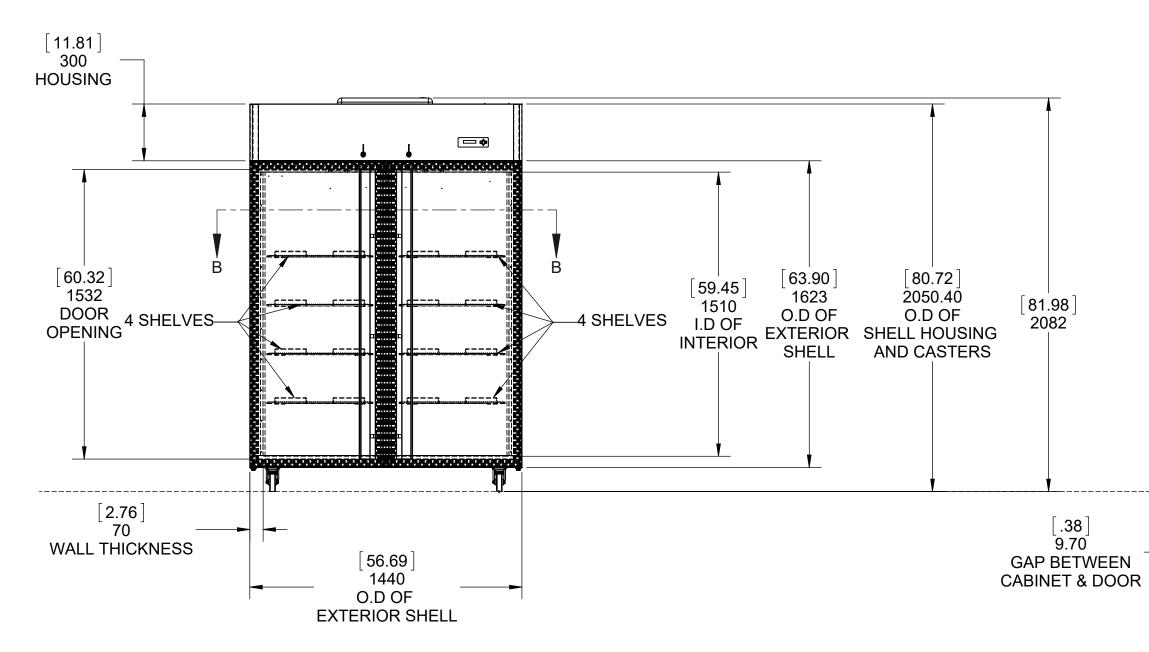
M10

5.1

6.2

3.7





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