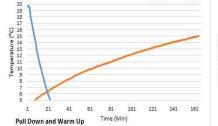
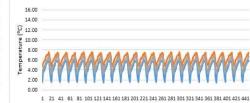
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Technical Data Sheet

General Purpose Refrigerator 1500L

	Revision-A				
	Model Number				
Specifications	TSG1500REGBW				
	Application, Rating and Electrical Data				
Application	Storage of General (non-flammable) Laboratory Materials				
Storage Volume	1355Liters /47.8 Cubic Feet				
Factory Set Point	+5 °C				
Set Point / Increment	+5 °C / 0.1 °C				
Electrical Power / Rated Current	230V 50 Hz 1 Phase / 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/UE, 2015/863/EU & 2012/19/EU				
Electromagnetic Compatibility	Emissions (Class A), Immunity (Industrial Environment)				
Indoor/Outdoor Usage	Indoor Use Only				
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation				
Ambient Operating Temperature	15° C to 32° C (59° F to 90° F)				
	Refrigeration Configuration				
Refrigeration System	Vapor compression system				
Compressor / Number / Capacity	Single speed / 1 / 256W				
Condenser Type/Number	Forced-Air Cooled Finned-Tube Coil Heat Exchanger / 1				
Expansion Device	Capillary Tube				
Evaporator Type / Defrost Method	Forced Air Finned-Tube Coil Heat Exchanger / Automatic Defrost				
Refrigerant Charge / Flammability	R290,100gms,GWP:3 ODP:0 / Flammable				
	Controller/Electrical System Configuration and Features				
Controller Level	Eye Level				
Power Switch	On the Controller Main Screen				
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 and NC)				
Adjustable Warm / Cold Alarms	Fully Adjustable				
Power Failure Alarm	Acoustic and Visual				
Electronic Chart Recorder	Not Provided				
	Dimensions and Construction				
Interior Dimensions (H x D x W)	1510 mm x 690 mm x 1300 mm (59.4" x 27" x 51.2")				
Exterior Dimensions (H x D x W)	2082 mm x 827 mm x 1440 mm (82.1" x 32.5" x 56.7")				
Insulation	Polyurethane Foam 70 MM (2.75")				
Door Perimeter heater	Yes				
Shelves / Load Limit	8 Shelves / 30kg (66 lbs) per Shelf				
Casters	2 Lockable Castors at the front & 2 Fixed Castors at the rear				
Non-Crated Shipping Weight	240kgs / 529.1 lbs				
	Typical Performance Characteristics				
Set Point 5°C @ 20°C Ambient	Set Point 5 ^o C @ 20 ^o C AmbientMNAVG Test Unit Series Number or MSO Number: 20297-A				
19 18	Cabinet Load: Unloa				





Time (Min)

Average Cabinet Temp (C): Peak Variation from Setpoint (C):

Peak Variation from Setpoint (C): Uniformity (C): 1-min Door Opening Recovery(min): Cycle on Time(%): Cycle (on/off) Time (min): Energy Consumption (kw-hr/day): Heat Rejection Rate (btu/hr): Pull Down Time to setpoint (kin) Warm Up Time to 15°C (min): Sound (dBA): 5.2 -3.7/2.9

1.94 4.2 8.3 26.14 4.6/13 4.2 592.94 23.7 154 50.6

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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At 5C Cycle



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	4.9	4.8
Max	7.2	7.3

1.8

Min

	M11	M12	M13	M14	M15	M20
Avg	5.7	6.1	4.9	5.2	5.2	5.1
Max	6.9	7.1	6.3	6.5	6.5	6.3
Min	3.8	4.7	2.7	3.5	3.8	3.5

М3

5.3

7.3

3.4

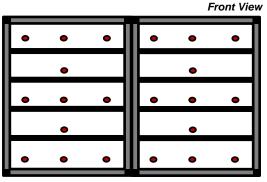
1.4

	M21	M22	M23	M24	M25
Avg	5.6	5.7	5	4.3	4.8
Max	6.9	7.2	6.1	5.8	6.2
Min	4	4.2	3.4	1.9	2.6

	M51	M52	M53	M54	M55	M60
Avg	5.4	4.8	4.7	4.9	5.4	5.3
Max	7.5	7.3	7.2	7.4	7.4	6.7
Min	2.9	1.7	1.5	2	3.8	3.8

	M61	M62	M63	M64	M65	M70
Avg	5.7	5.7	4.4	4.8	5.2	-1.5
Max	6.9	6.9	6.3	6.2	6.4	5.2
Min	4.1	4.6	1.7	2.5	3.8	-14.2

	M71	M72	M73	M74	M75
Avg	5.6	5.3	4.6	4.9	4.7
Max	6.8	6.8	5.9	6.1	6.2
Min	3.8	3.3	2.6	3.2	2.5



Cabinet Average: 4.5 C Probe Average: 7.0 C Peak Variation: +2.5 C / -19.2 C Temperatures are averages during > 20 cycles after reaching a setpoint of 5C

M4

4.9

7

2.3

M5

5.2

7.3

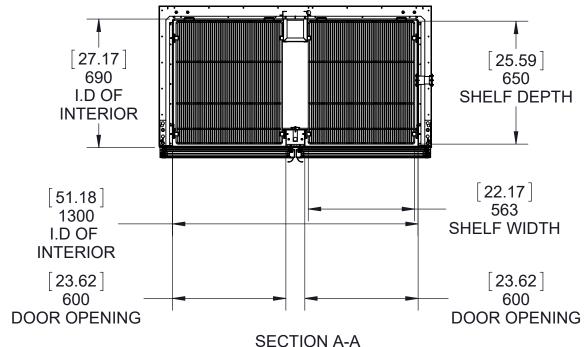
3.2

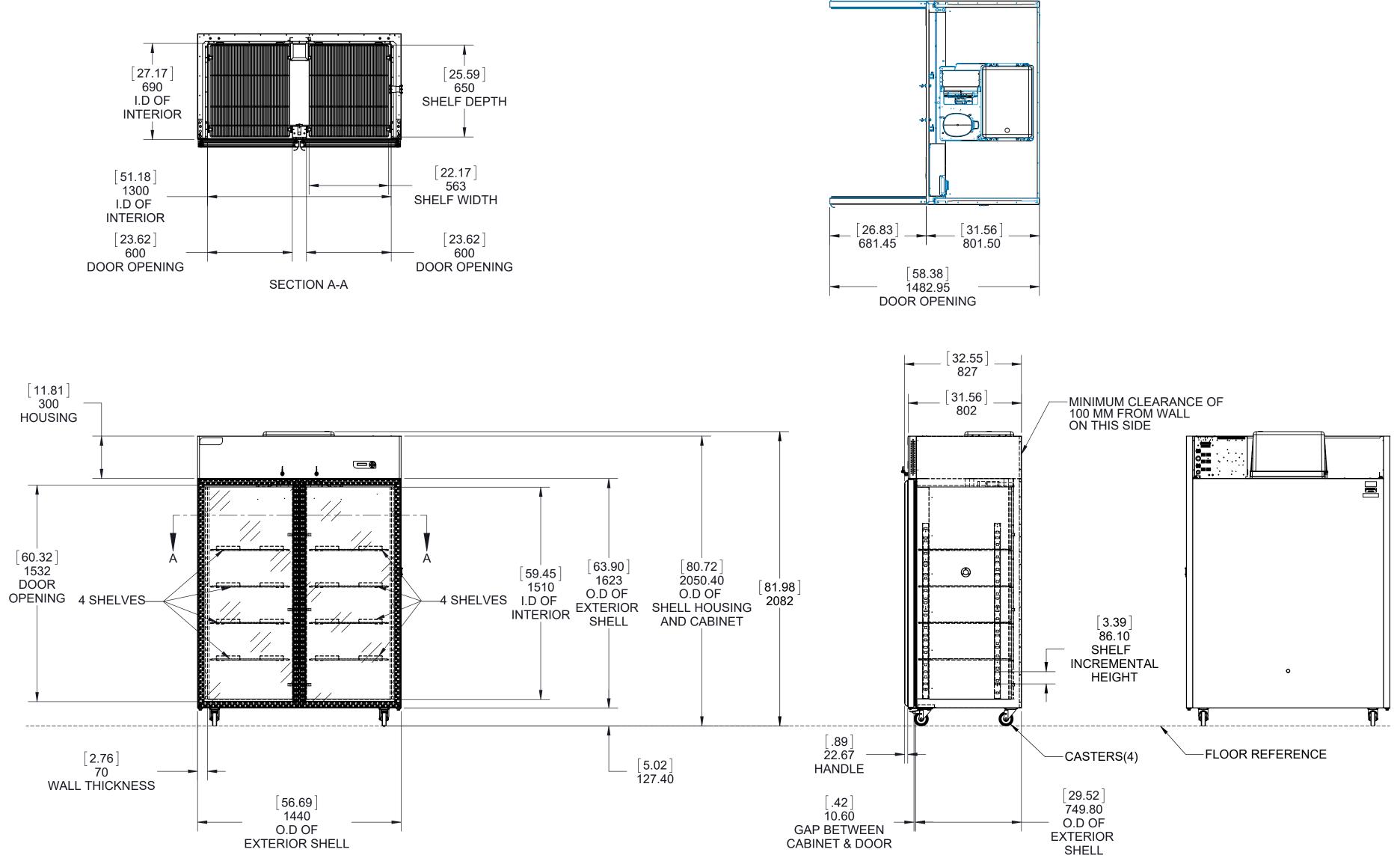
M10

5.2

6.6

3.8





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