

Specifications		Model Number
		TSB1500REGBV
		Application, Rating and Electrical Data
Application		Storage of Blood Bags
Storage Volume		1355Liters /47.8 Cubic Feet
Factory Set Point		+4 °C
Set Point / Increment		+4 °C (User Not allowed to change)
Electrical Power / Rated Current		230V 50 Hz 1 Phase / 1.6A
Building Supply Rating		16A 250V
Power Plug/Power Cord Length		16 Amp 250V / 4 Meters (13 feet)
Agency Listings		CE0051
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		R290,99gms,GWP:3 ODP:0 / Flammable
Controller/Electrical System Configuration and Features		
Controller Level		Eye Level
Power Switch		On the Controller Main Screen
Controller Type		7" TFT LCD Touch Screen: Digital display, Automatic defrost system
Setpoint Security / Programmable		Yes / Yes
Compressor Safe Guard		Overload Protection (OLP)
Control Sensor		PT100 probe (free contacts)
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)		1500 mm x 680 mm x 1300 mm (59" x 26.7" x 51.2")
Exterior Dimensions (H x D x W)		2070 mm x 825 mm x 1440 mm (81.5" x 32.5" x 56.7")
Insulation		70 mm (2.75") Polyurethane Foam
Door Perimeter heater		Yes
Shelves / Load Limit		14 extractable aluminum drawers / 30kg (66 lbs) per Shelf
Casters		2 Lockable Castors at the front & 2 Fixed Castors at the rear
Non-Crated Shipping Weight		347Kg / 765 lbs
Typical Performance Characteristics		
Set Point 4°C @ 20°C Ambient 		Test Unit Series Number or MSO Number: DME1502B-78116 Cabinet Load: Unloaded Average Cabinet Temp (C): 4.75 Peak Variation from Setpoint (C): -1.41/1.93 Uniformity (C): 1.47 Stability (C): 1.15 1-min Door Opening Recovery(min): 10 Cycle on Time(%): 33.33 Cycle (on/off) Time (min): 4/8 Energy Consumption (kw-hr/day): 4.3 Heat Rejection Rate (btu/hr): 611.34 Pull Down Time to setpoint (Min): 48 Warm Up Time to 15°C (min): 266 Sound (dBA): 51.6
Set Point 4°C @ 20°C Ambient 		

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 omissions 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 50cuft , 7 Drawers, 2 Outer Doors

Temperatures are averages during > 20
cycles after reaching a setpoint of 4C

Top View of Shelves

M3	M4	M53	M54
M1	M2	M51	M52
M20		M70	
M33	M34	M83	M84
M31	M32	M81	M82

REAR

FRONT

FRONT



	M1	M2	M3	M4	M20
Avg	4.8	4.9	4.6	4.8	4.5
Max	5.7	5.9	5.1	5.2	4.9
Min	3.7	3.7	4.1	4.5	4.2
	M31	M32	M33	M34	
Avg	5.3	4.7	4.6	4	
Max	5.5	5.1	5.1	5	
Min	5.2	4.4	4.1	3	
	M51	M52	M53	M54	M70
Avg	5.3	4.8	4.8	4.1	5
Max	5.6	5.6	5.2	5.3	5.2
Min	5	3.9	4.4	2.6	4.9
	M81	M82	M83	M84	
Avg	5.1	5.3	4	4.7	
Max	5.2	5.5	5	5	
Min	4.9	5.1	3	4.3	

Cabinet Average: 4.8 C

Peak Variation: +1.9 C / -1.4 C

