

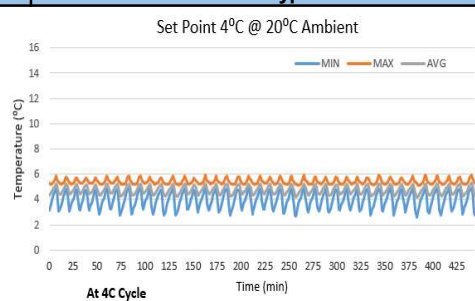
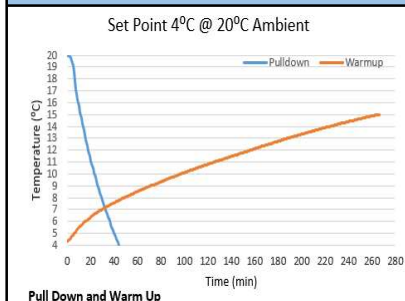
Specifications	Model Number
	TSB1500REGBV
Application, Rating and Electrical Data	
Application	Storage of Blood Bags
Storage Volume	1355Liters /47.8 Cubic Feet
Factory Set Point	+4 °C
Set Point / Increment	+4 °C (User Not allowed to change)
Electrical Power / Rated Current	230V 50 Hz 1 Phase / 1.6A
Building 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 extractible 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	
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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

- 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

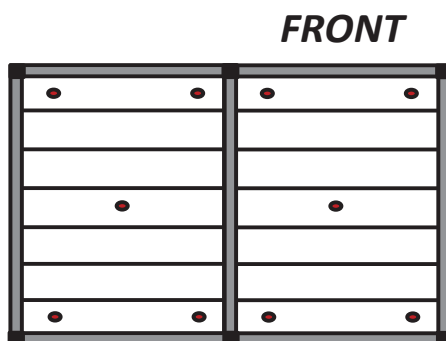
Temperatures are averages during > 20
cycles after reaching a setpoint of 4C

Top View of Shelves

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

REAR

FRONT



	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

