

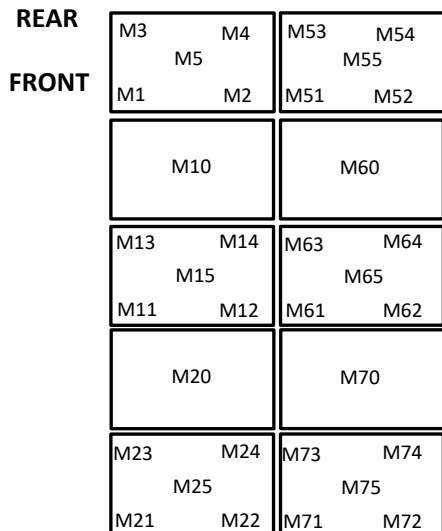
Specifications	Model Number																												
	TSG1500REGCW																												
Application, Rating and Electrical Data																													
Application	Storage of General (non-flammable) Laboratory Materials																												
Storage Volume	1355Liters /47.8 Cubic 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																												
Crated Shipping Weight	283kgs / 624 lbs																												
Typical Performance Characteristics																													
<p>Set Point 5°C @ 20°C Ambient</p> <p>— Pulldown — Warmup</p>	<p>Set Point 5°C @ 20°C Ambient</p> <p>— MIN — MAX — AVG</p> <p>At 5C Cycle</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="2">Test Unit Series Number or MSO Number: 20297-A-10-7</th> </tr> </thead> <tbody> <tr> <td>Cabinet Load:</td> <td>Unloaded</td> </tr> <tr> <td>Average Cabinet Temp (C):</td> <td>5.2</td> </tr> <tr> <td>Peak Variation from Setpoint (C):</td> <td>-3.7/2.9</td> </tr> <tr> <td>Uniformity (C):</td> <td>1.94</td> </tr> <tr> <td>Stability (C):</td> <td>4.2</td> </tr> <tr> <td>1-min Door Opening Recovery(min):</td> <td>8.3</td> </tr> <tr> <td>Cycle on Time(%):</td> <td>26.14</td> </tr> <tr> <td>Cycle (on/off) Time (min):</td> <td>4.6/13</td> </tr> <tr> <td>Energy Consumption (kw-hr/day):</td> <td>4.2</td> </tr> <tr> <td>Heat Rejection Rate (btu/hr):</td> <td>592.94</td> </tr> <tr> <td>Pull Down Time to setpoint.(Min)</td> <td>23.7</td> </tr> <tr> <td>Warm Up Time to 15°C (min):</td> <td>154</td> </tr> <tr> <td>Sound (dBA):</td> <td>50.6</td> </tr> </tbody> </table>	Test Unit Series Number or MSO Number: 20297-A-10-7		Cabinet Load:	Unloaded	Average Cabinet Temp (C):	5.2	Peak Variation from Setpoint (C):	-3.7/2.9	Uniformity (C):	1.94	Stability (C):	4.2	1-min Door Opening Recovery(min):	8.3	Cycle on Time(%):	26.14	Cycle (on/off) Time (min):	4.6/13	Energy Consumption (kw-hr/day):	4.2	Heat Rejection Rate (btu/hr):	592.94	Pull Down Time to setpoint.(Min)	23.7	Warm Up Time to 15°C (min):	154	Sound (dBA):	50.6
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<p>1)Performance is nominal and individual units may vary.</p> <p>2)Product performance will differ due to product amount, product size and operating conditions.</p> <p>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.</p> <p>© 2021 Thermo Scientific Inc. All trademarks are the property of Thermo Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.</p>																													



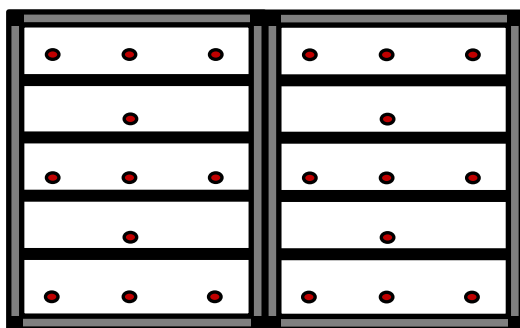
**Typical Cabinet Temperature Map**  
**Refrigerator 48cuft , 4 Inner-Shelves + Base, 2 Outer Doors**

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

**Top View of Shelves**



Front View



20297-A-10-7

**Cabinet Average:** 4.5 C  
**Probe Average:** 7.0 C  
**Peak Variation:** +2.5 C / -19.2 C

	M1	M2	M3	M4	M5	M10
Avg	4.9	4.8	5.3	4.9	5.2	5.2
Max	7.2	7.3	7.3	7	7.3	6.6
Min	1.8	1.4	3.4	2.3	3.2	3.8

	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

	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

