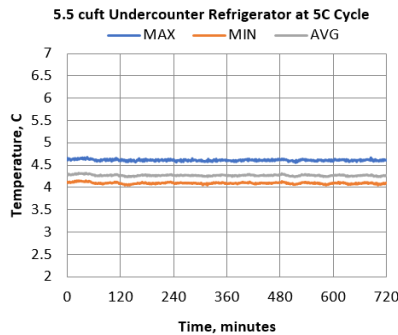
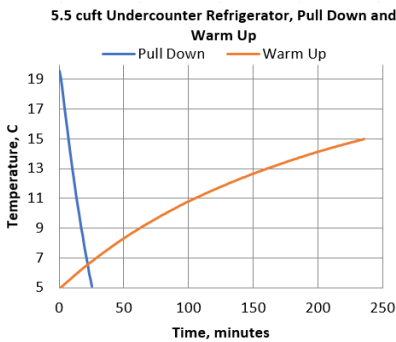




Specifications	Catalog number
	TSX505SA
	Model Number
	TSX505SA
Application, Rating and Electrical Data	
Application	TSX Series High-Performance Undercounter Refrigerator, Solid Door
Storage Volume	156 Liters / 5.5 Cubic Feet
Factory Set Point	5°C
Set Point Range/Adjustable Increment	3°C to 7°C / 0.1°C
Electrical Power / Rated Current	100-240 VAC, 50-60Hz
Instrument Rated Current	5 Amps
Building Supply Rating	Breaker 15 Amps/115v± 10% Volt While Operating
Power Plug/Power Cord Length	NEMA 5-15P, 1.828 Meters (6 Feet)
Agency Listings	cSGSUS (IEC 61010-1), CE
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation
Ambient Operating Temperature	15° C - 32° C (60° F - 90° F)
Refrigeration Configuration	
Cooling System	125W Thermoelectric Heat Pump Devices
Evaporator Type	Hybrid cold wall / forced air with R-744 (CO2) as refrigerant
Condenser Type	Forced Air Heat-pipe Fin Tube With Water As Refrigerant
Defrost Method	Pre-programmed Automatic, Option for Manual Initiation Available
Refrigerant	R-744 for cold side; R-718 for hot side
Controller/Electrical System Configuration and Features	
Controller Level / Controller Type	Waist Level
Power Switch	No
Controller Type	4.3" LCD touch display Touchscreen Controller
Control Sensor	(2) Air + Glycol
System Alarms	Yes
Door Ajar, Probe Failure Alarms	Yes / Yes
Temperature Alarms	Yes
Battery Low & Memory Low Alarm	Yes / Yes
Data Logger / Chart Recorder	Yes, In-Built Data Logger. Data Accessible Through USB Device
Dimensions and Construction	
Interior Dimensions (H x D x W)	520 mmX 495 mmX 584 mm (20.5" X 19.5" X 23")
Exterior Dimensions (H x D x W)	660.4 mmX 599.4 mmX 807.7 mm (26" X 23.6" X 31.8")
Insulation	HFC-free
Heater	Yes
Face Frame Heater	No
Shelves / Capacity	3 Adjustable Wire Shelves
Levelling Legs	4 Leveling legs with 1" Height adjustment
Ship Weight	Approximately 71kg (155lbs.)
Access port	Yes, Rear wall, Accommodates 25mm Probe
Typical Performance Characteristics	



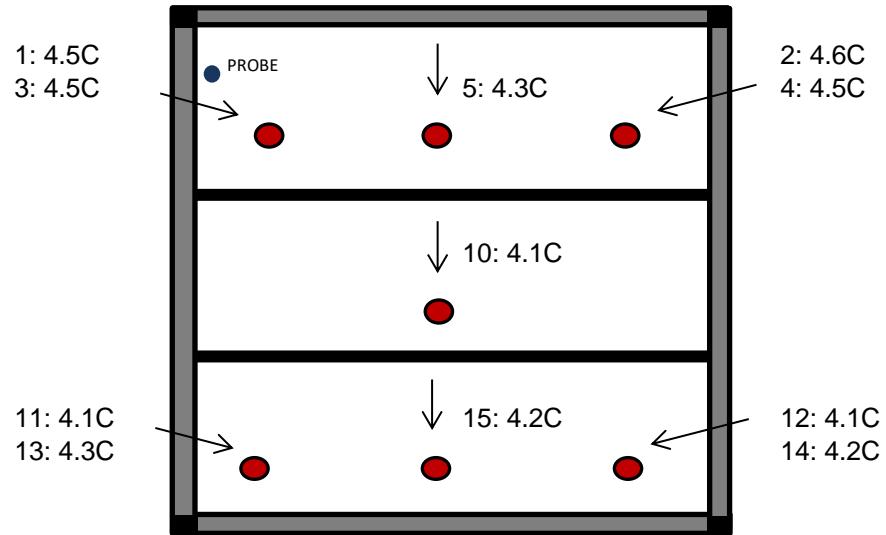
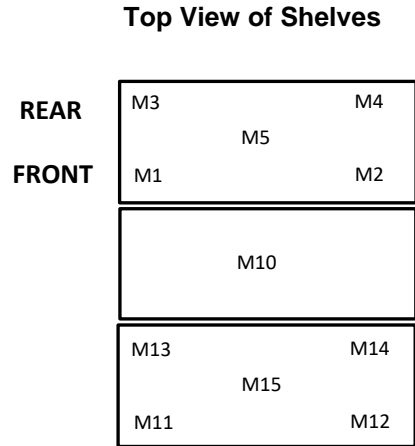
Cabinet Load:	Unloaded
Average Cabinet Temp at 5C Cycle (C):	4.26
Peak Variation (C):	0.64
Uniformity (C):	0.52
Stability (C):	0.12
3-min Door Opening Recovery to 8C (min):	9.5
Energy Consumption (kw-hr/day):	0.99
Heat Rejection Rate (btu/hr):	140
Pull Down Time (to 5C) (min):	25
Warm Up Time (5C to 15C) (min):	237
Sound (dBA):	35

- 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.



Typical Cabinet Temperature Map
Refrigerator 5cuft , 2 Inner-Shelves + Base, Single Outer Door

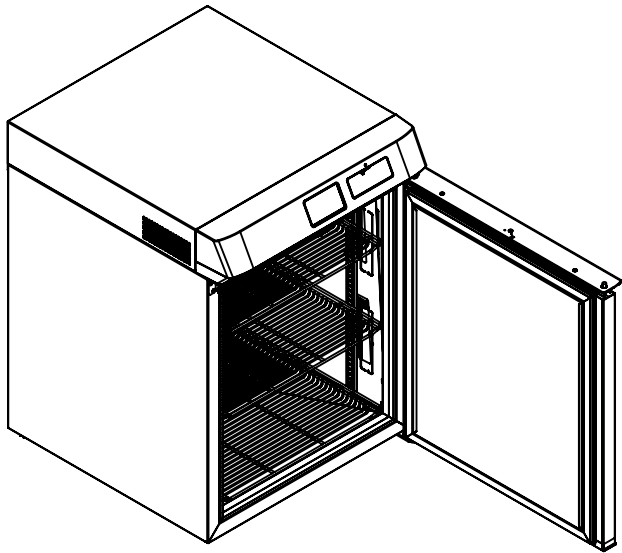
Temperatures are averages during > 20 cycles after reaching a setpoint of 5C



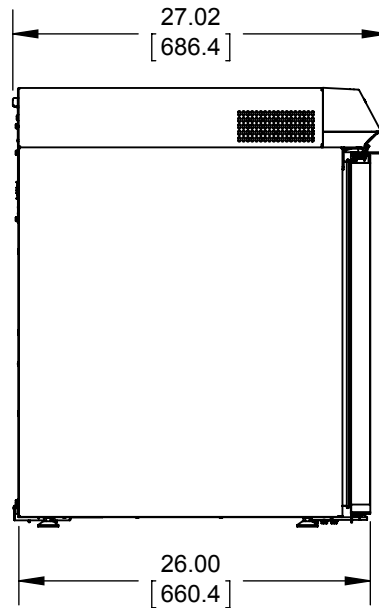
Cabinet Average: 4.3 C
Probe Average: 4.3 C
Peak Variation: 0.64 C

	M1	M2	M3	M4	M5	M10
Avg	4.5	4.6	4.5	4.5	4.3	4.1
Max	4.6	4.7	4.6	4.6	4.4	4.2
Min	4.4	4.6	4.5	4.5	4.2	4.1

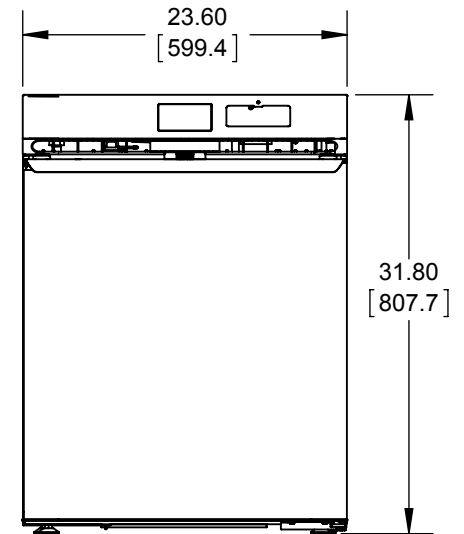
	M11	M12	M13	M14	M15
Avg	4.1	4.1	4.3	4.2	4.2
Max	4.2	4.2	4.3	4.2	4.3
Min	4	4.1	4.2	4.1	4.2



ISOMETRIC VIEW WITH DOOR OPEN



SIDE VIEW



FRONT VIEW

DO NOT USE FOR ENGINEERING PURPOSES
SUBJECT TO CHANGE WITHOUT NOTICE

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HIGH PERFORMANCE REFRIGERATOR