

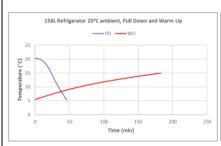
Technical Data Sheet

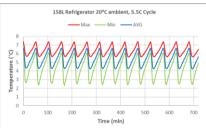
Thermo Scientific General Purpose Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Thermo Fisher Scientific, Asheville, North Carolina									
	Catalog/Model Number								
	158R-AEW-TSC Application, Rating and Electrical Data								
Specifications									
Application	General Purpose Undercounter Lab Refrigerator (Non-Flammable)								
Storage Volume	Gross (158L) / Net (154L)								
Set Point / Temperature Range	+5.5°C / +2°C to +10°C								
Electrical Power	220-240V, 50Hz								
Instrument Rated Current	0.73 A								
Building Supply Rating	Breaker 16 Amps / 230V±10%Volt While Operating								
Power Plug/Power Cord Length	13A EU Plug / 2M Long (Ships with UK Adapter)								
Agency Listings	CE								
Indoor/Outdoor Usage	Indoor Use Only								
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15°C - 32°C (59°F - 90°F)								
	Refrigeration Configuration								
Refrigeration System	Vapor Compression System								
Compressor	(1) Hermetically Sealed Compressor								
Evaporator Type	Aluminum Tube Serpentine Coil (Concealed)								
Condenser Type	Stainless Steel Tube Serpentine Coil (Concealed)								
Expansion Device	Capillary Tube								
Defrost Method	Automatic (OFF Cycle Defrost)								
Refrigerant (Charge)	R600a (28g) / Environmentally Safe / Flammable								
	Controller/Electrical System Configuration and Features								
Controller Level	Below Eye Level								
Power Switch	No								
Controller Type	3 DIGIT 17 mm X 9 mm LED with Keypad								
Control Sensor	(1) NTC Air Sensor (Thermistor)								
Compressor Safeguard	High Temp Cut-Out								
Remote Alarm Terminals	Yes								
Alarms	Yes, Audible and Visual (Temperature Range, Door Ajar)								
Data Logger	No								
	Dimensions and Construction								
Interior Dimensions (W x D x H)	500 mm x 480 mm x 718 mm (STEP 500 mm x 210 mm x 150 mm)								
Exterior Dimensions (W x D x H)	599 mm x 658 mm x 850 mm								
Insulation	Polyurethane Foam (with Cyclopentane Blowing Agent)								
Door Perimeter Heater	No								
Shelves	(3) Adjustable Wire Shelves, (1) Wire Basket, (3) Adjustable Plastic Door Baskets								
Leveling Feet	(4) Adjustable								
Ship Weight	56.8 kg								
Access port	Yes,16 mm, Rear LH Corner								
· ·	Typical Performance Characteristics								





Test Unit MSO Number:	20013-A-1-1					
Cabinet Load:	Unloaded					
Average Cabinet Temp at 5.5C Cycle (C):	5.11					
Average Uniformity (C):	1.71					
Average Stability (C):	2.48					
Peak Variation from Setpoint (C):	+1.52 / -3.05					
1-min Door Opening Recovery (min):	11					
Duty Cycle (%)	18					
Cycle (ON/OFF) (min)	8 / 38					
Energy Consumption (KW-hr/day):	0.25					
Heat Rejection Rate (Btu/hr):	35.5					
Pull Down Time (15C to 5.5C) (min):	24					
Warm Up Time (5.5C to 15C) (min):	185					
Sound (dBA)	40					

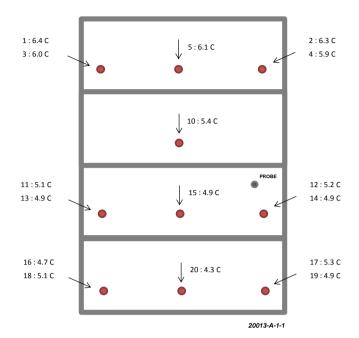
- 1) Performance is nominal and individual units may vary.
- Refrigerator performance will differ due to product amount, product size and operating conditions.
 Continuous product enhancements may, without notice, result in amendments or ommissions to this specification. Thermo Scientific $cannot\ accept\ responsibility\ for\ damage,\ injury,\ loss\ or\ expenses\ resulting\ from\ misapplication\ of\ the\ information\ herein.$

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Typical Cabinet Temperature Map 158L W-Volt Refrigerator; 3 Shelves,1 Basket; Single Outer Door

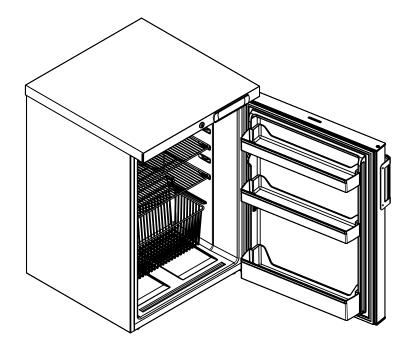
Top View of Shelves REAR M5 FRONT M1 M2 M10 M14 M13 M15 M11 M12 M19 M18 M20 M16 M17



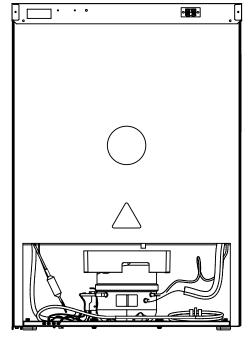
Cabinet Average: 5.11°C
Probe Average: 5.27°C
Peak Variation: +1.52 / -3.05°C

	M1	M2	М3	M4	М5	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20
Avg	6.4	6.3	6.0	5.9	6.1	5.4	5.1	5.2	4.9	4.9	4.9	4.7	5.3	5.1	4.9	4.3
Max	7.4	7.4	7.3	7.2	7.2	6.6	6.5	6.5	6.3	6.3	6.2	6.2	6.5	6.6	6.5	6.1
Min	5.6	5.6	5.0	4.9	5.3	4.4	4.0	4.1	3.7	3.7	3.8	3.4	4.5	3.4	3.2	2.3

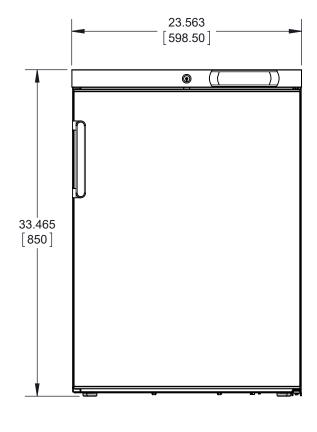
thermoscientific



ISOMETRIC VIEW WITH DOOR OPEN



REAR VIEW



FRONT VIEW

