

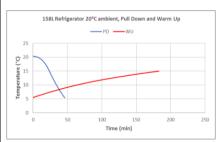
## **Technical Data Sheet**

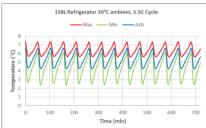
## Thermo Scientific General Purpose Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

	Thermo Fisher Scientific, Asheville, North Carolina									
	Catalog/Model Number									
	158R-AEW-TS									
Specifications	Application, Rating and Electrical Data									
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									
90	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 No									
Shelves	(3) Adjustable Wire Shelves, (1) Wire Basket, (3) Adjustable Plastic Door Baskets									
Leveling Feet	(4) Adjustable									
Ship Weight	37.8 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					

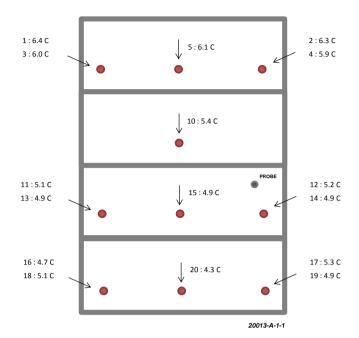
- 1) Performance is nominal and individual units may vary.
- Refrigerator performance will differ due to product amount, product size and operating conditions.
   Continuous product enhancements may, without notice, result in amendments or ommissions to this specification. Thermo Scientific  $cannot\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

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

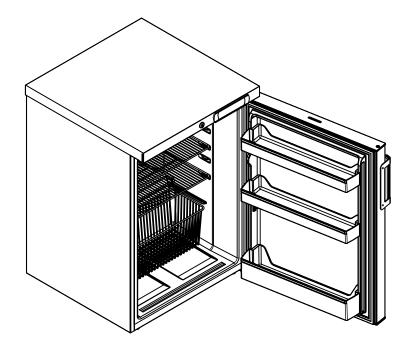
## Top View of Shelves REAR M5 FRONT M1 M2 M10 M14 M13 M15 M11 M12 M19 M18 M20 M16 M17



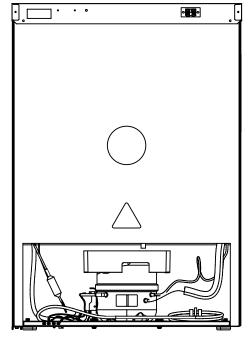
Cabinet Average: 5.11°C
Probe Average: 5.27°C
Peak Variation: +1.52 / -3.05°C

	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

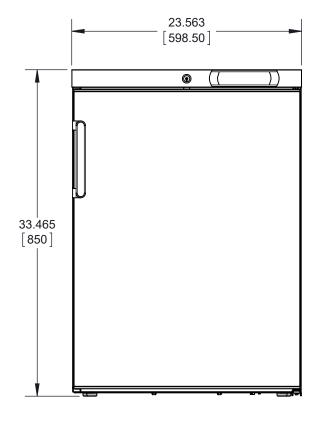
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ISOMETRIC VIEW WITH DOOR OPEN



**REAR VIEW** 



**FRONT VIEW** 

