

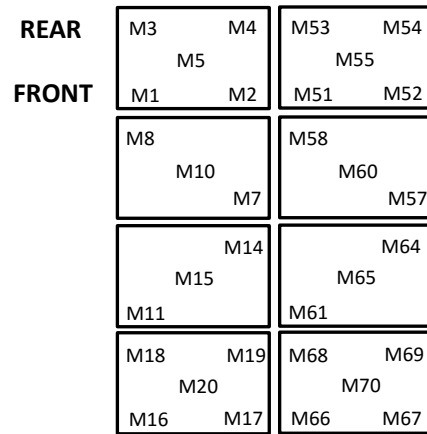


Specifications	Catalog Number
	FBG49RSSA
	Production Model Number
	FBG49RSSA
Application, Rating and Electrical Data	
Application	General Purpose Laboratory Refrigerator, Semi-Critical Sample Storage
Storage Volume	49 Cuft / 1387 Liters
Temperature Rating/Set Point	2°C to 10°C / 5°C
Electrical Power	115 V / 60 Hz, 1 Phase
Instrument Rated Current	5A
Building Supply Rating	Breaker 15 Amps/115v± 10%Volt While Operating
Power Plug/Power Cord Length	Three prong NEMA 5-15P, 1.828 Meters (6 Feet)
Agency Listings	cULus, Prop 65, Energy Star
Sound Pressure Level	47.6 dBA
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	
Refrigeration System	Vapor Compression System
Compressor / Number	Single speed Hermetic Compressor/1
Condenser Type/Number	Finned Tube and Forced Convection Cooled/1
Expansion Device	Capillary Tube
Evaporator Type	Forced Air Evaporator Coil
Defrost Method	Adaptive Defrost
Refrigerant Charge/Flammability	85 Grams / Flammable, R290
Controller/Electrical System Configuration And Features	
Controller Type	Digital Controller
Controller Level	Eye Level
Key Switch	Yes
Compressor Safe Guard	Overload Protector
Control Sensor	NTC Probe
Remote Alarm Terminals	Yes
Power Failure Alarm	Yes
Dimensions And Construction	
Interior Dimensions (H x Y x Ö)	61.75 x 49 x 28.5 in. (1569 x 1245 x 724mm)
Exterior Dimensions (H x Y x Ö)	81 x 52.7 x 32 in. (2057 x 1339 x 813mm)
Insulation	Polyurethane foam wih R134a blowing agent
Door Perimeter heater	Not Present
Shelves / Capacity	(8) Adjustable Wire Shelves. Max. Cap. per Shelf: 45 kg (100 lbs.)
All-Direction Casters	4 levelling Feet
Ship Weight	Approximately 271kg (597lbs.)
Access Port / Dia	Yes / 1 Inch
Typical Performance Characteristics	
<p>49 cuft Upright Refrigerator, Pull Down and Warm Up</p> <p>— Pull Down — Warm Up</p>	<p>49 cuft Upright Refrigerator at 5C Cycle</p> <p>— MAX — MIN — AVG</p>
<p>Test Unit Series Number or MSO Number: 19733-A-9-6</p> <p>Cabinet Load: Unloaded</p> <p>Average Cabinet Temp at 5C Cycle (C): 5.3</p> <p>Stability (C): 2.1</p> <p>1-min Door Opening Recovery to 5C (min): 4</p> <p>Duty Cycle at 5C (%): 23</p> <p>Cycle (on/off) rate at 5C (min): 3 / 10</p> <p>Energy Consumption (kW-hr/day): 2.8</p> <p>Heat Rejection Rate (btu/hr): 354</p> <p>Pull Down Time (to 5C) (min): 21</p> <p>Warm Up Time (5C to 15C) (min): 237</p> <p>Sound (dBA): 47.6</p>	
<p>1) Performance is nominal and individual units may vary.</p> <p>2) Refrigerator 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>	

**Typical Cabinet Temperature Map**  
**Refrigerator 49cuft, 8 Inner-Shelves, 2 Outer Doors**

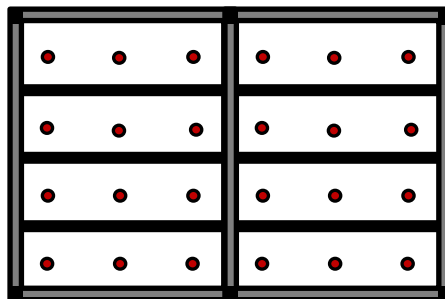
**Temperatures are averages during > 20 cycles after reaching a setpoint of 5C**

**Top View of Shelves**



**Front View**

19733-A-9-6



**Cabinet Average: 6.9 C**  
**Probe Average: 5.5 C**

	M1	M2	M3	M4	M5	M7
Avg	5.3	5.3	5.1	5.2	5.2	5.2
Max	6.1	6.2	6.1	6.1	6.1	6
Min	4.2	4.2	3.4	3.8	4.2	4

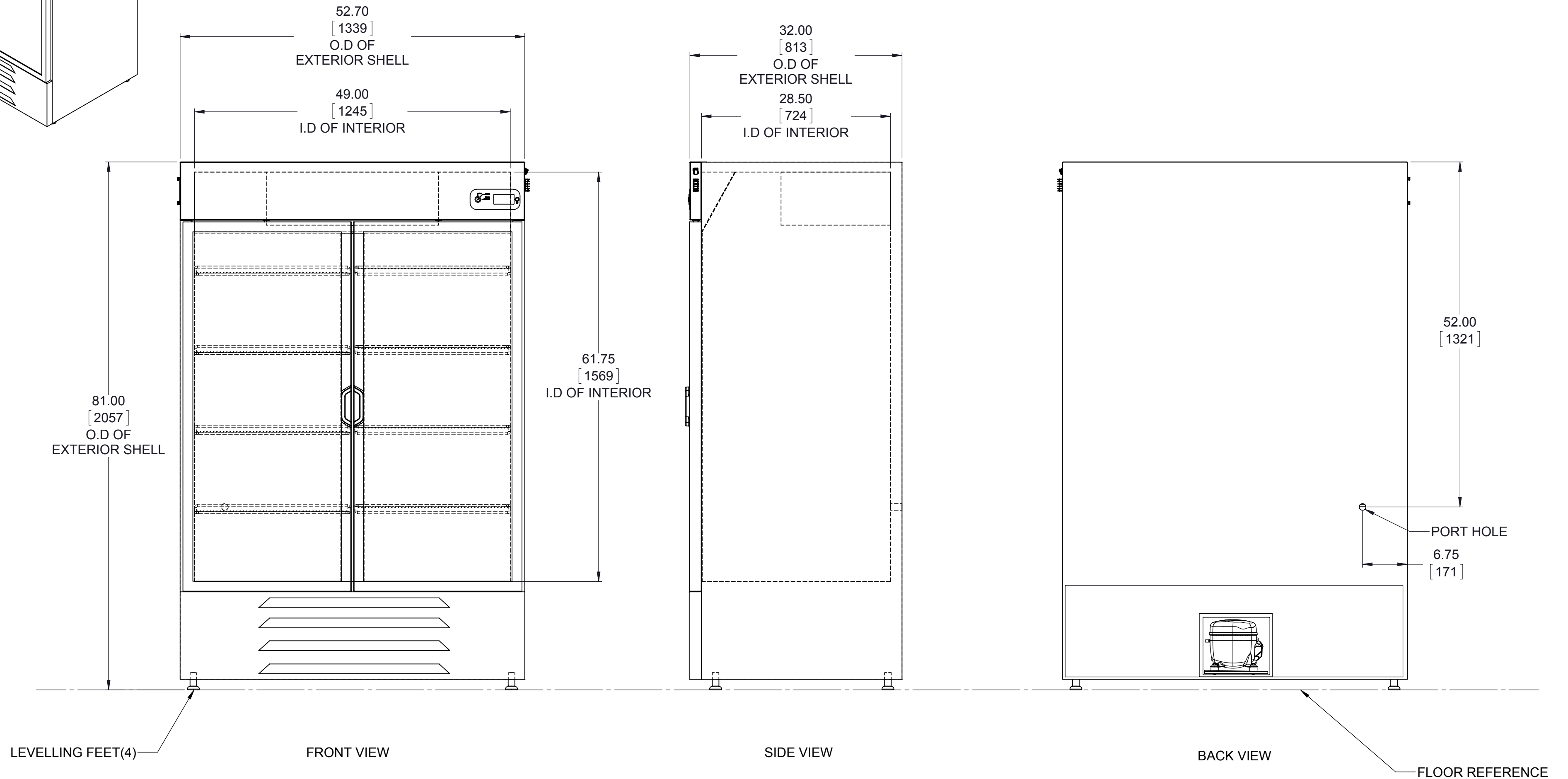
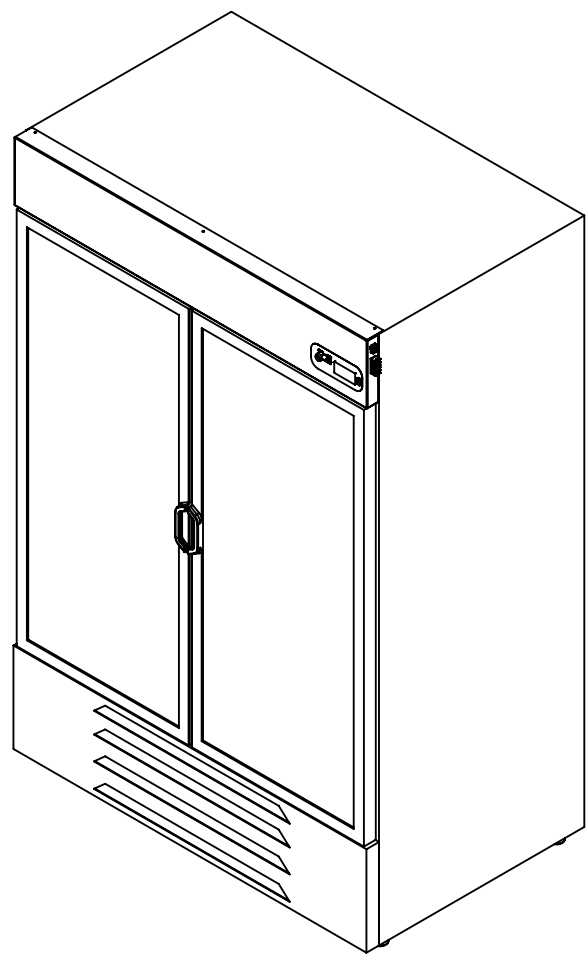
	M8	M10	M11	M14	M15
Avg	5.1	5	5.2	5	5.1
Max	6.1	6	6.1	6.1	6
Min	3.6	3.3	4	3.4	3.8

	M16	M17	M18	M19	M20
Avg	5.2	5.4	5	5.4	5.1
Max	6.1	6.1	6.2	6.2	6.2
Min	4.2	4.5	3.1	4.2	3.2

	M51	M52	M53	M54	M55	M57
Avg	5.6	5.1	5.4	5.3	5.3	5.4
Max	6.2	6.1	6.1	6.1	6.2	6.2
Min	4.8	3.4	4.4	4.1	4	4.5

	M58	M60	M61	M64	M65
Avg	5.2	5.1	5.1	5.2	5.4
Max	6	6	6.1	6.1	6.2
Min	4.2	3.8	3.8	3.8	4.5

	M66	M67	M68	M69	M70
Avg	5.5	5.6	5.2	5.3	5.4
Max	6.2	6.4	6.1	6.2	6.2
Min	4.6	4.6	3.8	3.9	4.2



**NOTE: DUAL DIMENSION IS INCHES OVER MILLIMETERS**  
DO NOT USE FOR ENGINEERING PURPOSES. SUBJECT TO CHANGE WITHOUT NOTICE.

**49cu.ft.**  
8 Shelves  
Double Solid Door  
Top Mount Controls