



Technical Data Sheet

VWR 72 Cuft Chromatography Refrigerator

Revision-1



Specifications	Catalog Number
	VWG72CSGA
	Production Model Number
	VWG72CSGA
	Application, Rating and Electrical Data
Application	Chromatography Refrigerator, Semi-Critical Sample Storage
Storage Volume	72 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	6.2A (Unit) / 4A (Internal Outlet)
Building Supply Rating	Breaker 15 Amps/115v± 10%Volt While Operating
Power Plug/Power Cord Length	(2X) Three prong NEMA 5-15P, 1.828 Meters (6 Feet)/3.048 Meters (10 Feet)
Agency Listings	cULus, Prop 65, Energy Star
Sound Pressure Level	44.4 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	90 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 Wx D)	81 x 75.7 x 32 in. (2057 x 1924 x 813mm)
Exterior Dimensions (H x W x D)	61.75 x 72 x 28.5 in. (1569 x 1829 x 724mm)
Insulation	Polyurethane foam wih R134a blowing agent
Door Perimeter heater	Not Present
Shelves / Capacity	(12)Adjustable Wire and (2) Half Shelves. Max. Cap. per Shelf: 45 kg (100 lbs.)
All-Direction Casters	4 Levelling feet
Ship Weight	Approximately 332kg (733lbs.)
Access Port / Dia	Yes / 1 Inch
	Typical Performance Characteristics
<div><div><div>72 cuft Upright Refrigerator, Pull Down and Warm Up</div><div><div><div></div><div></div></div><div><div>— Pull Down</div><div>— Warm Up</div></div></div><div><div><div>19.00</div><div>17.00</div><div>15.00</div><div>13.00</div><div>11.00</div><div>9.00</div><div>7.00</div><div>5.00</div></div><div><div>0</div><div>50</div><div>100</div><div>150</div><div>200</div></div><div>Time, minutes</div></div></div><div><div><div>72 cuft Upright Refrigerator at 5C Cycle</div><div><div><div></div><div></div><div></div></div><div><div>— MAX</div><div>— MIN</div><div>— AVG</div></div></div><div><div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div>0</div><div>120</div><div>240</div><div>360</div><div>480</div><div>600</div><div>720</div></div><div>Time, minutes</div></div></div><div><div>Test Unit Series Number or MSO Number:</div><div>19733-A-10-9</div></div><div><div><div>Cabinet Load:</div><div>Unloaded</div></div><div><div>Average Cabinet Temp at 5C Cycle (C):</div><div>5.4</div></div><div><div>Stability (C):</div><div>2.2</div></div><div><div>1-min Door Opening Recovery to 5C (min):</div><div>6</div></div><div><div>Duty Cycle at 5C (%):</div><div>33</div></div><div><div>Cycle (on/off) rate at 5C (min):</div><div>4 / 8</div></div><div><div>Energy Consumption (kW-hr/day):</div><div>2.5</div></div><div><div>Heat Rejection Rate (btu/hr):</div><div>521</div></div><div><div>Pull Down Time (to 5C) (min):</div><div>50</div></div><div><div>Warm Up Time (5C to 15C) (min):</div><div>151</div></div><div><div>Sound (dBA):</div><div>44.4</div></div></div></div><div><div>1) Performance is nominal and individual units may vary.</div><div>2) Refrigerator performance will differ due to product amount, product size and operating conditions.</div><div>3) Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.</div></div></div>	



Typical Cabinet Temperature Map
Refrigerator 49cuft 12 Inner-Shelves, 3 Outer Doors

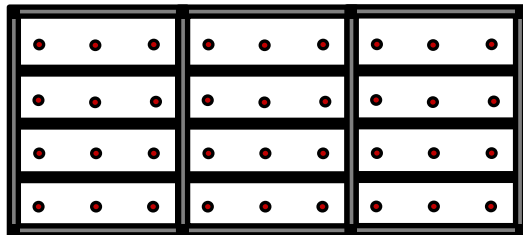
Temperatures are averages during > 20
cycles after reaching a setpoint of 5C

Top View of Shelves

REAR	M3	M4	M53	M54	M103	M104
	M5		M55		M105	
FRONT	M1	M2	M51	M52	M101	M102
	M8	M10	M58	M60	M108	M110
	M7		M57		M107	
	M14	M15	M64	M65	M114	M115
	M11		M61		M111	
	M18	M19	M68	M69	M118	M119
	M20		M70		M120	
	M16	M17	M66	M67	M116	M117

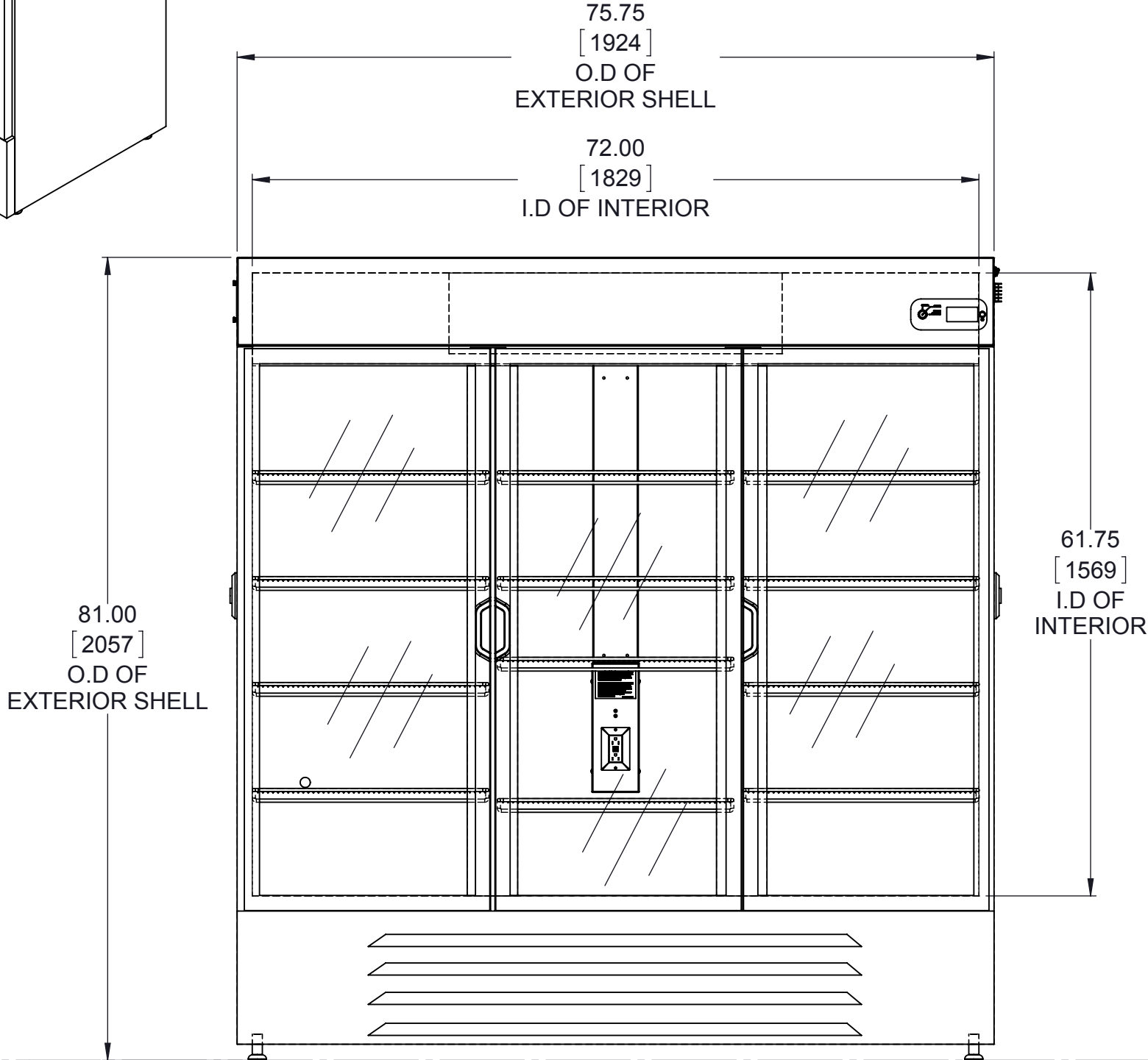
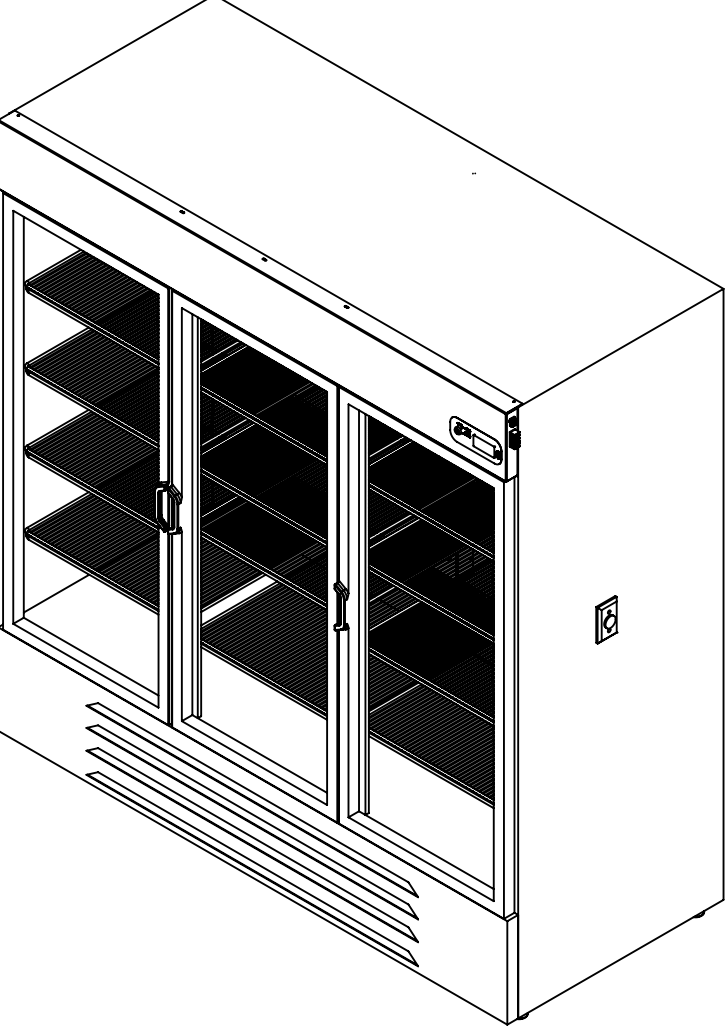
Front View

19733-A-10-9

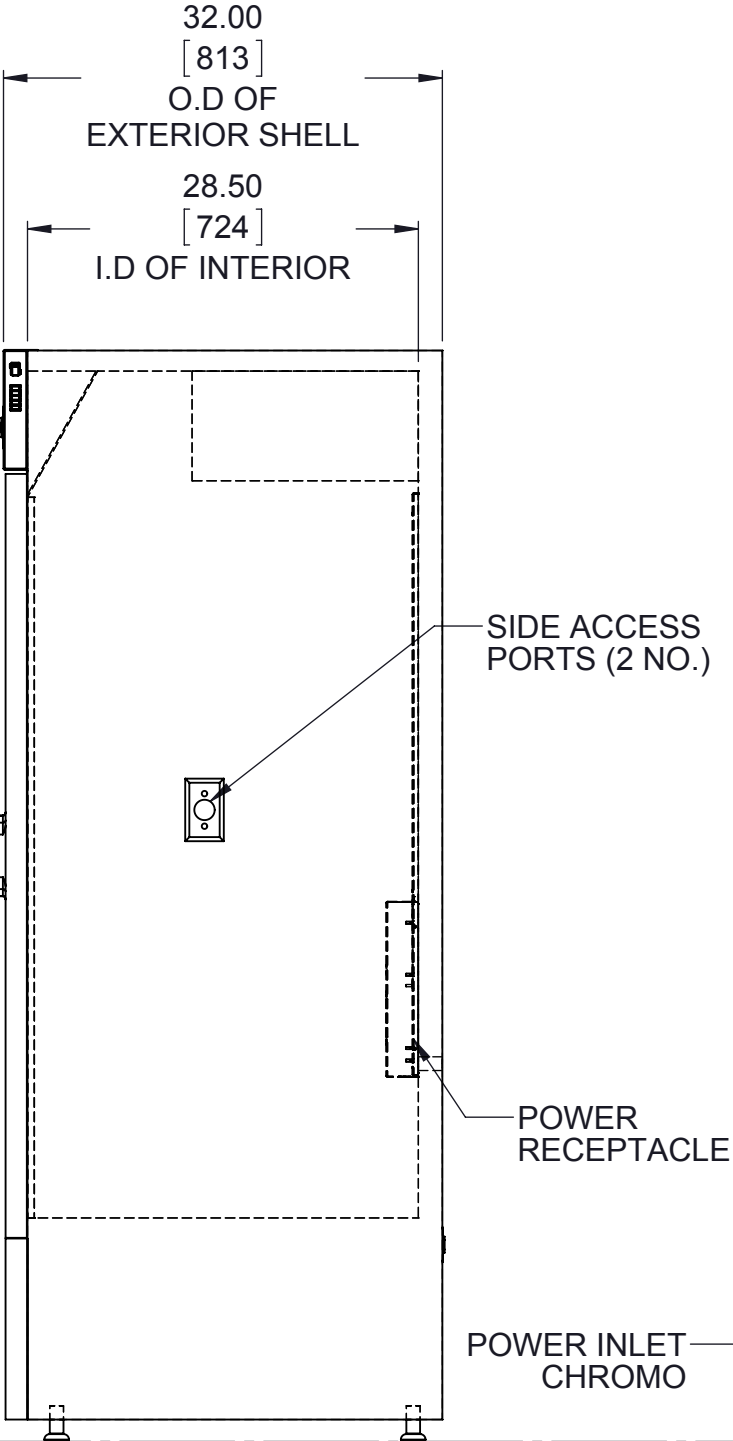


Cabinet Average: 5.4 C
Probe Average: 5.7 C

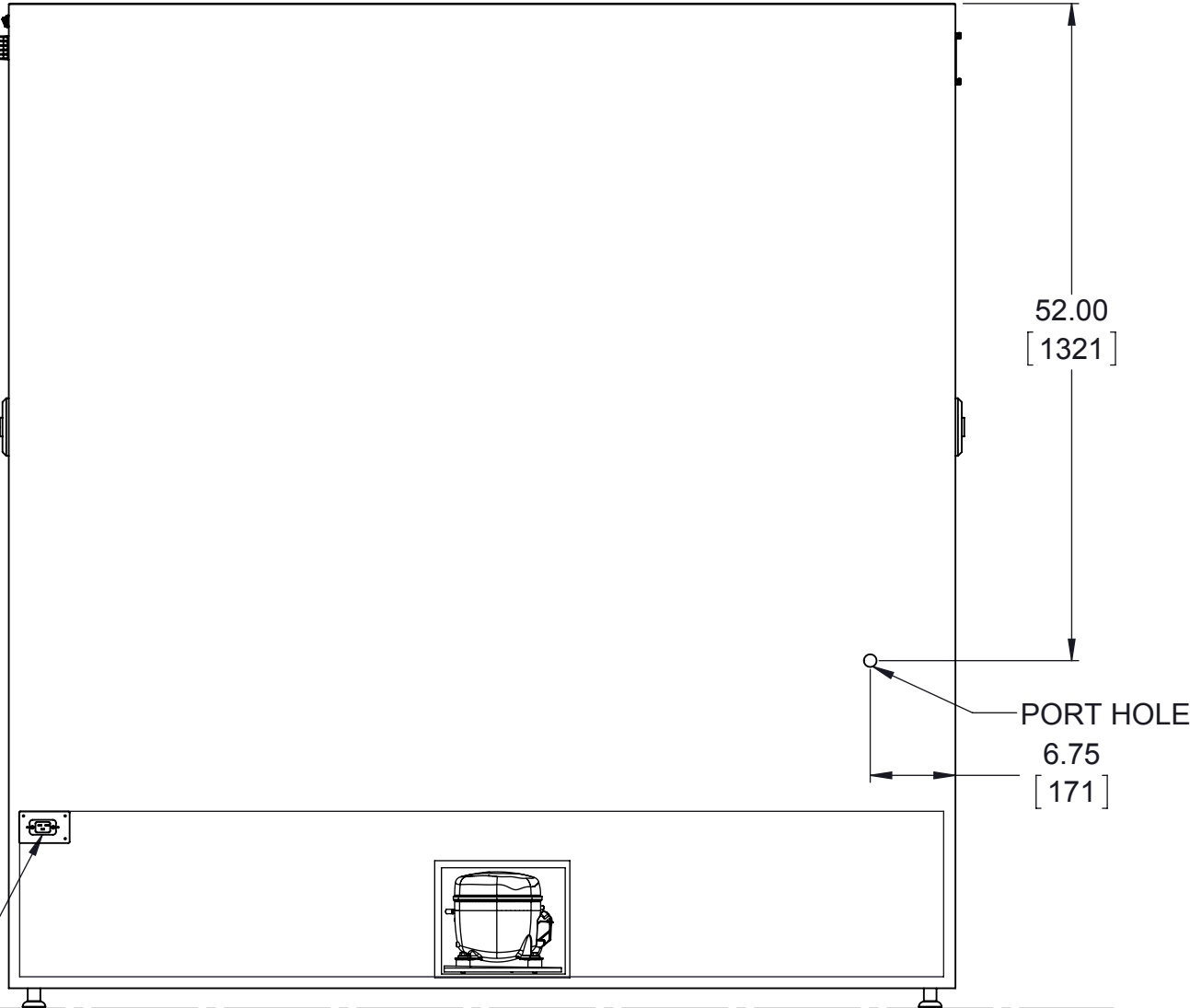
	M1	M2	M3	M4	M5	M7
Avg	5.6	5.9	5.9	5.6	5.4	5.3
Max / Min	6.5/4.5	6.8/4.9	6.7/5.2	6.5/4.5	6.3/4.3	6.3/4.1
	M8	M10	M11	M14	M15	
Avg	5.2	5.4	5.2	5.1	5	
Max / Min	6.3/4.4	6.3/4.5	6.3/3.8	6.3/3.6	6.3/3.6	
	M16	M17	M18	M19	M20	
Avg	5.5	5.4	5.5	5.2	5.2	
Max / Min	6.6/4.1	6.4/4	6.4/4.3	6.2/3.8	6.3/3.7	
	M51	M52	M53	M54	M55	M57
Avg	5.5	5.5	4.5	5.4	5.3	5.2
Max / Min	6.4/4.5	6.3/4.6	6.5/1.6	6.4/3.9	6.3/4.1	6.3/3.9
	M58	M60	M61	M64	M65	
Avg	5.4	5	5.3	5.1	5	
Max / Min	6.2/4.5	6.3/2.9	6.3/4	6.3/3.5	6.2/3.5	
	M66	M67	M68	M69	M70	
Avg	5.3	5.3	5.3	5.5	5.2	
Max / Min	6.3/4.1	6.3/3.9	6.3/3.8	6.3/4.5	6.2/3.6	
	M101	M102	M103	M104	M105	M107
Avg	5.4	5.3	5.8	5.8	5.9	5.7
Max / Min	6.3/4.2	6.3/4	6.5/5.1	6.6/5	6.6/5.2	6.4/5.1
	M108	M110	M111	M114	M115	
Avg	5.5	5.6	5.5	5.4	5.3	
Max / Min	6.2/4.7	6.4/4.7	6.3/4.7	6.2/4.6	6.2/4.1	
	M116	M117	M118	M119	M120	
Avg	5.5	5.4	5.3	5.3	5.6	
Max / Min	6.3/4.6	6.2/4.5	6.2/4.2	6.2/4.1	6.4/4.6	



FRONT VIEW



SIDE VIEW



BACK VIEW

FLOOR REFERENCE

LEVELLING FEET(4)

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

72cu.ft.
12 Full Shelves & 2 Half Shelves
Triple Door Chromatography
Top Mount Controls