

Technical Data Sheet VWR 45 Cuft Chromatography Refrigerator Revision-1



	Catalog Number			
	VWG45CSLA			
Specifications	Production Model Number			
	VWG45CSLA			
	Application, Rating and Electrical Data			
Application	Chromatography Refrigerator, Semi-Critical Sample Storage			
Storage Volume	45 Cuft / 1274 Liters			
Temperature Rating/Set Point	2°C to 10°C / 5°C			
Electrical Power	115 V / 60 Hz, 1 Phase			
Instrument Rated Current	5A(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	47.5 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 W x D)	61.75 x 49 x 27 in. (1569 x 1245 x 686mm)			
Exterior Dimensions (H x W x D)	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 and (2) Half Shelves. Max. Cap. per Shelf: 45 kg (100 lbs.)			
All-Direction Casters	4 levelling Feet			
Ship Weight	Approximately 255kg (561lbs.)			
Access Port / Dia	Yes / 1 Inch			
	Typical Performance Characteristics			
45 cuft Upright Refrigerator, Pull Down and Warm Up ——Pull Down ——Warm Up	45 cuft Upright Refrigerator at 5C Cycle — MAX — MIN — AVG Test Unit Series Number or MSO Number:	19733-A-7		
19 17 20 115 15 10 115 10 10 115 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Cabinet Load: Average Cabinet Temp at 5C Cycle (C): Stability (C): 1-min Door Opening Recovery to 5C (min): Duty Cycle at 5C (%): Cycle (on/off) rate at 5C (min): Energy Consumption (kW-hr/day): Heat Rejection Rate (btu/hr): Pull Down Time (to 5C) (min):	Unloaded 4.9 2.5 4 40 4 / 6 3.1 434 29 162		
	150 200 0 120 240 360 480 600 720 Warm Up Time (5C to 15C) (min):			

- 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 ommisions 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 45cuft, 8 Inner-Shelves & 2 Outer Doors

Top View of Shelves

REAR FRONT

М3		M4	M53	M54
	M5			M55
М1		M2	M51	M52
M8			M58	
	M10			M60
		M7		M57
		M14		M64
	M15	M14		M64 M65
M11	M15	M14	M61	-
M11 M18	M15	M14 M19	M61 M68	-
\vdash	M15 M20			M65

Front View

19733-A-7

•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

Cabinet Average: 4.9 C Probe Average: 6.0 C

	M1	M2	M3	M4	M5	M7
Avg	4.8	5.2	4.6	4.8	4.9	4.7
Max	6	6.4	6	6	6	5.8
Min	3	3.7	2.5	3.1	3.5	3.2

_		M8	M10	M11	M14	M15
	Avg	4.8	4.4	4.8	4.6	4.8
	Max	6	6	5.9	6	6
	Min	3.1	2	3.2	2.5	3

	M16	M17	M18	M19	M20
Avg	5.1	5.3	4.9	4.9	4.9
Max	6.2	6.3	6.1	6.1	6.1
Min	3.9	4.2	3.3	3.4	3.1

	M51	M52	M53	M54	M55	M57
Avg	5.1	5	5	4.8	5.4	4.9
Max	6.3	6.2	6.1	6.1	6.3	5.9
Min	3.6	3.2	3.5	3	4.1	3.4

	M58	M60	M61	M64	M65
Avg	5	4.8	5	4.5	4.8
Max	6	6.2	6	5.8	5.9
Min	3.5	2.8	3.9	2.7	3.5

	M66	M67	M68	M69	M70
Avg	4.9	4.8	5.1	5.1	5.3
Max	6	6.1	6.1	6.2	6.3
Min	3.4	3	3.8	3.6	3.7

