



TECHNICAL DATA SHEET

MODEL CM450AL

COMBO FRIDGE/FREEZER



GCI
LIFE SCIENCES



Precision refrigeration and freezing in one laboratory focused platform.

0.6/1.3
°C

Temp. Uniformity

41/44
Minutes

Pull-Down to 5/-40°C

7/15
Minutes

1-Minute Door Opening Recovery

Typical freezer data based on internal testing with setpoint at 5/-40°C and ambient temperature at 22°C.

SPECIFICATIONS

→ 2-8°C/-10 to -40°C Combined Refrigerator and Freezer

Model	CM450AL
Capacity	450L (15.88 cuft)
Upper Chamber	225L (7.94 cuft)
Lower Chamber	225L (7.94 cuft)
Internal Chamber Size (W X D X H)	R: 650 X 570 X 627mm (25.59 X 22.44 X 24.69 in) ; F: 650 X 570 X 627mm (25.59 X 22.44 X 24.69 in)
External Size (W X D X H)	810 X 735 X 1960mm (31.89 X 28.94 X 77.17 in)
Package Size (W X D X H)	895 X 820 X 2135mm (35.24 X 32.28 X 84.06 in)
Product Weight (Kgs/Lbs)	146kg 321.88 lbs)
Shipping Weight (Kgs/Lbs)	173kg (381.40 lbs)

→ Performance

Temperature Range	R: 2-8°C F: -10 to -40°C
Ambient Temperature	16-32°
Cooling Performance	R: 5°C F: -40°C
Climate Class	Indoor Use Only
Controller	Microprocessor
Display	Digital Display

→ Refrigeration

Compressor	Double
Cooling Method	R: Air Duct Cooling F: Direct Cooling
Defrost Mode	R: Automatic F: Manual
Refrigerant	R600a; R290
Insulation Thickness (mm)	D:76, L/R:80

→ Construction

External Material	Powder Coated Steel
Inner Material	Sprayed Aluminum Plate
Shelves	R:3 (Plastic Coated Steel Wire Shelves), F:6(ABS)
Access Test Port	2 pc. 025mm
Casters	4 total, 2 with locks
Data Logging/Interval/Max. Data Cap.	USB/Record every 10 minutes/100,000 data
Interface	Remote Alarm Contact, RS485
Backup Battery	Yes

→ Alarms

Temperature	High/Low Temperature, High Ambient Temperature
Electrical	Power Failure, Low Battery
System	Sensor Error, Data Logger Failure, Data Communication Failure, Door Ajar

→ Electrical

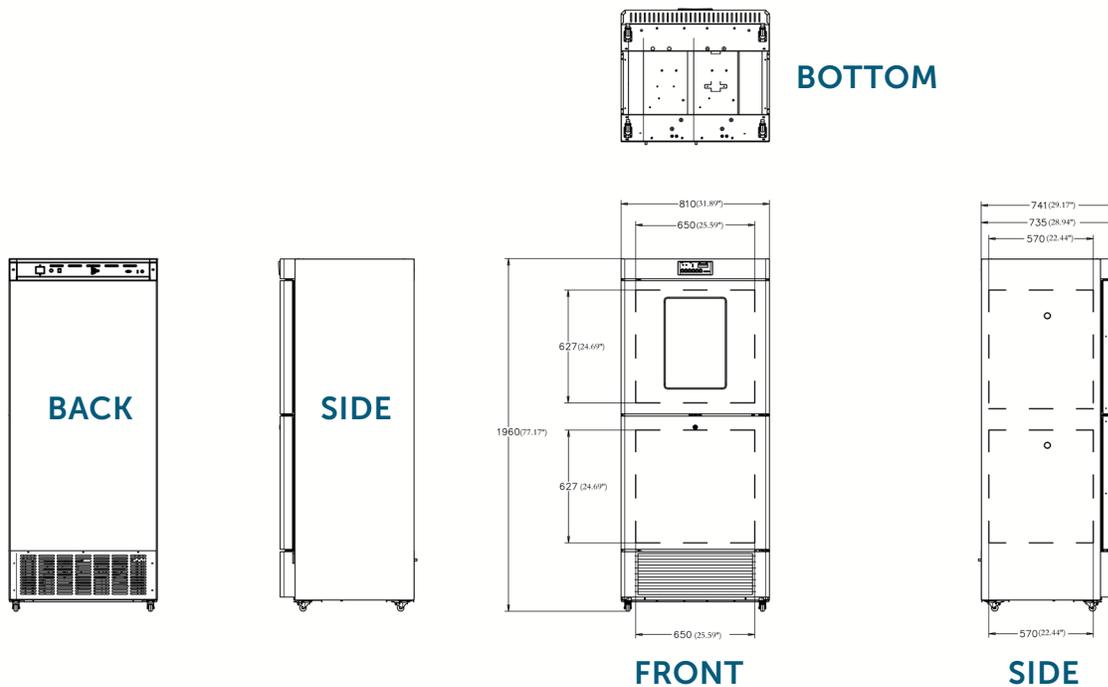
OPTION 1	OPTION 2
110V	220-240V
4.41A	3.12A

→ Certifications

UL (2021-12-13 - E509170)
CE (AHES210500141101HSC)

Manufacturing Facility certified to ISO 9001:2015 and
ISO 13485:2016 quality management system standards
Medical device classification: Class II (U.S), Class IIa (EU MDR)

DIMENSIONS



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REDEFINING COLD