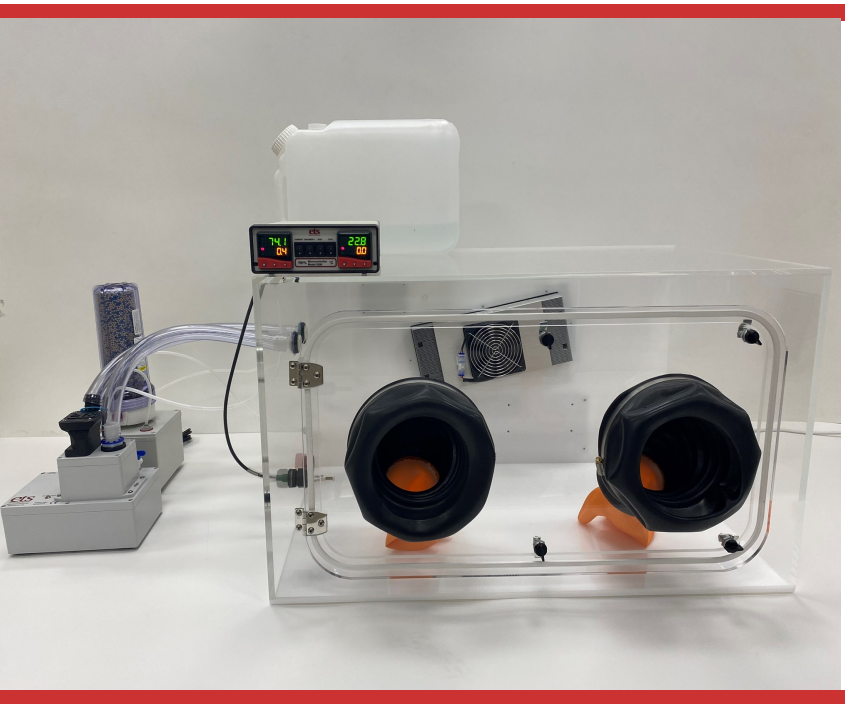
M 5507 Midsize Climatic Temperature and Humidity Glovebox Chamber

Enviromental Control Equipment



The M 5507 midsize glovebox chamber creates a controlled, sealed environment for critical lab and industrial processes. Its flexible control system empowers you to configure temperature and humidity with precision, tailoring the chamber to your exact needs.

The M 5507 adapts to diverse workflows across industries, from pharma and university research to cutting-edge electronics manufacturing.

Applications

- Pharma, Medical, Biomedical, and University Laboratory Testing
- R&D Product and Material Testing
- Industrial Benchtop Work and Testing Environment
- Industrial and Lab Sample Conditioning and Item Storage preparation

Key Features

- Popular packages and custom configurations available to support a broad range of environmental conditions:
  - Temperature (10°C to 55°C). Available insulation package expands temperature range to 5°C to 60°C.
  - Humidity (5% to 95% RH)

- Midsize design with easy access, excellent visibility and maximized working space:
  - Footprint: 85cm W x 53cm D x 49cm H
  - Front door opening: 71cm x 35cm
  - Volume: 219L working space
  - ClearView Acrylic for excellent visibility

Questions? Here's how to contact our experts

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Model 5507 Compact Temperature and Humidity Glovebox Chamber

Specifications

Model 5507 Chamber

Mechanical	
Material	Clear and White Acrylic
Internal Volume	~7.726 cu. Ft. (218.7L)
Internal Dimensions	33.29" W x 20.79" D x 19.29"H (84.5cm x 52.8cm x 48.9cm)
External Dimensions	34" W x 21.5" D x 20"H (86.3cm x 54.6cm x 50.8cm)
Weight	82 lbs. (21.7 kg) w/ Full Systems NEMA 1/Thermoelectric, 58 lbs. (25.5 kg) for base chamber

Access	
Front Opening	28" W x 14" H (71.1cm x 35.5cm)
Front Door	1/2" (6mm) clear acrylic
Door Latches	3/4-Turn latches
Door Gasket	1/4" non-setting silicone
Glove Ports (optional)	Pair of 8" (20cm) ports
Gloves, pair (optional)	0.018" (0.5mm) latex, size 10
Cable Pass-Through	1-1/2" diameter

Connections (if included)	
1/4" Push-to-connect fitting, 1/4 NPT	Qty. 2
0.2" to 0.49" OD Compression Fitting, 3/4 NPT	Qty. 1
1" ID Hose Barb, 1 NPT	Qty. 2
3/32" ID Hose Barb, 1/8 NPT	Qty. 1
1 x 1-1/2" Cable Passthrough Grommet, TPU	Qty. 1

Temperature Heat / Cool (if included)	
Thermoelectric System	Model 5477-250
Temperature Max.	55°C
Temperature Min.	10°C
Temp. ramp 22°C to 10°C typ.	< 60 minutes
Temp. ramp 22°C to 50°C typ.	< 60 minutes

Humidification (if included)	
Ultrasonic Humidifier	Model 5482
RH% Max	100%
RH% ramp 50% to 90% typ.	< 10 minutes

Dehumidification (if included)	
Molecular Sieve Desiccant	Model 5461-115V, or Model 5461-230V
Dry Gas Valve	Model 5465
Regenerating Desiccant	Model 5478-115V, or Model 5478-230V
RH% Min.	5% (10% with M 5461)
RH% ramp 50% to 10% typ.	< 60 minutes

Control (if included)	
Model 5100 Controller	3300 Single Display Control, Single ramp/soak cycle
Model 5200 Controller	9500 Dual Display Control, Multiple ramp/soak cycle
Displays	LED 0.4", Setpoint and present reading
Display Resolution	0.1 %RH / 0.1 °C
Sensor	Dual Temperature and RH 0-100 %RH, -40 to +55°C
Sensor Accuracy, RH%	±2.0% RH at 20°C and 0-90% RH ±3.0% RH at 20°C and 90-100% RH
Sensor Accuracy, Temp.	Temp: ±0.2°C at 20°C

Power (for full operating system options)	
Voltage	115 VAC @ 8 Amps, or 230 VAC @ 4 Amps, 50 / 60Hz, Single Phase

Notes:

Chamber performance of 10°C to 50°C and 5% to 95% RH is valid at ambient conditions. Ambient conditions consist of 22°C ±3°C and 25% to 70% RH. Higher or lower temperatures and humidities may be reached by adjusting ambient conditions, conditioning chamber for extended periods, or by utilizing combinations of operating systems (low humidity is easier at higher temperatures, etc.).

The Model 5477-250 Thermoelectric Heating and Cooling system has a cooling ΔT of up to 15°C for cooling and 45°C for heating.