



### General Features

- Normal working temperature range from -60°C to 200°C.
- Four chamber sizes to choose from.
- Use with liquid carbon dioxide or liquid nitrogen cooling agents.
- Liquid carbon dioxide allows cooling down to -60°C and liquid nitrogen to -150°C.
- Forced air convection provides excellent temperature uniformity.
- Temperature Stability: Better than  $\pm 0.5^\circ\text{C}$ .
- Fast heat-up and cool-down rates.
- Long-life mineral insulated metal sheathed heating elements.
- Stainless steel inner chamber is convenient to clean and resistant to corrosion.
- Efficient fibrous insulation assures excellent thermal seal of chamber.
- Standard instrumentation is 3216P1 programmable temperature controller.
- Cool channel of temperature controller switches the cooling agent injection solenoid valve.
- Each gas cooled chamber is provided with perforated stainless steel shelves for convenient loading and unloading. See specification chart.
- Side mounted control panel avoids damage from accidental spills.
- Positive latch door closure provides effective seal of chamber.
- Long-life mechanical design is also aesthetically attractive in today's modern laboratory.



GCC 60/3216P1

Shelving Specifications by Chamber Size				
SHELVES	30	60	120	200
Number Supplied	2	2	2	2
Maximum Possible	3	4	5	5
Max. Dist. Load/Shelf (lb)	22	22	22	33
Total Maximum Load (lb)	44	66	88	99

Gas Cooled Chamber Performance Specifications						
Gas Cooled Chamber Model	Temperature Uniformity (°C)	Temperature Stability (°C)	Minimum Temperature		Heat-Up Time Amb. to 200°C (Min.)	Cool-Down Time Amb. to -60°C (Min.)
			Liquid Carbon Dioxide	Liquid Nitrogen		
GCC 30	$\pm 5$	$\pm 0.5$	-60°C	-150°C	26	12
GCC 60	$\pm 5$	$\pm 0.5$	-60°C	-150°C	26	12
GCC 120	$\pm 5$	$\pm 0.5$	-60°C	-150°C	26	12
GCC 200	$\pm 5$	$\pm 0.5$	-60°C	-150°C	26	12

Temperature uniformity is not based on full chamber dimensions. Contact Carbolite for details.

Gas Cooled Chambers											
Gas Cooled Chamber Model	Max. Temp. (°C)	Internal Chamber Dimensions Inches (mm)			External Dimensions Inches (mm)			Maximum Power (kW)		Operating Voltages	Shipping Weight (lb.)
		Height	Width	Depth	Height	Width	Depth	200°	300°		
GCC 30	200	12.25 (310)	11.75 (300)	13.00 (330)	22.50 (570)	30.25 (765)	30.50 (770)	.75	1.0	120/208/240	205
GCC 60	200	16.00 (410)	15.75 (400)	15.00 (380)	26.50 (670)	34.00 (865)	34.25 (870)	1.00	1.5	120/208/240	252
GCC 120	200	26.00 (660)	19.75 (500)	15.00 (380)	36.25 (920)	38.00 (965)	34.25 (870)	1.50	2.0	120/208/240	309
GCC 200	200	24.00 (610)	24.00 (610)	24.00 (610)	33.00 (840)	45.00 (1140)	33.50 (850)	2.25	3.0	208/240	375

Optional 300°C maximum operating temperature is available.  
Optional -150°C liquid nitrogen cooling available.

Gas cooled chambers operate on single phase voltage.  
Specify voltage at time of order.