



250°C Clean Room Ovens



CR70/301 and CR 30/301

General Features

- Seven chamber sizes to choose from.
- 250°C maximum operating temperature.
- Designed for use in Class 100 clean room.
- Temperature Stability: Better than $\pm 0.5^\circ\text{C}$.
- Fully welded polished stainless steel inner chamber is easy to clean and resistant to corrosion.
- Each oven is provided with non-tilt nickel plated shelves with multi-position settings for convenient loading and unloading.
- Powerful fan and air guide system provides temperature uniformity of better than $\pm 5^\circ\text{C}$ throughout the working area of chamber.*
- Superior oven insulation design provides excellent thermal efficiency.
- Long-life high efficiency mineral insulated metal sheathed heating elements.
- Chamber ventilation and exhaust vent is located on top of chamber.
- Compression fittings effectively seal the fan shaft, heating element and thermocouple where they enter the oven chamber.
- Positive latch door closure combined with silicon rubber door seal assures effective seal of chamber.
- Oven insulation is appropriately sealed to prevent contamination of the oven chamber or work area.
- Choice of 301 or programmable controls
- Multiple built-in options available. (See pages 66 & 67)

Carbolite clean room ovens are designed for use in a Class 100 environment. They are not fitted with internal filters to provide a Class 100 environment inside the oven when not used in a clean room area.

250°C Clean Room Ovens											
Oven Model	Max. Temp. (°C)	Internal Chamber Dimensions Inches (mm)			External Dimensions Inches (mm)			Number of Shelves	Max. Power (kW)	Oven Voltage	Shipping Weight (lb.)
		Height	Width	Depth	Height	Width	Depth				
CR 30	250	12.25 (310)	12.25 (310)	12.25 (310)	25.75 (655)	18.00 (460)	24.50 (625)	2	1.00	120/208/240	137
CR 70	250	12.25 (310)	18.50 (470)	18.50 (470)	25.75 (655)	24.50 (620)	31.25 (790)	2	1.50	120/208/240	205
CR 130	250	21.50 (550)	18.50 (470)	18.50 (470)	35.25 (895)	24.50 (620)	31.25 (790)	3	2.00	208/240	300
CR 180	250	30.25 (770)	18.50 (470)	18.50 (470)	44.00 (1115)	24.50 (620)	31.25 (790)	3	2.25	208/240	309
CR 220	250	24.00 (610)	24.00 (610)	24.00 (610)	44.50 (1130)	30.75 (780)	33.50 (850)	3	3.00	208/240	441
CR 330	250	36.00 (915)	24.00 (610)	24.00 (610)	56.75 (1440)	30.75 (780)	33.50 (850)	4	4.50	208/240	574
CR 450	250	48.00 (1220)	24.00 (610)	24.00 (610)	69.00 (1750)	30.75 (780)	33.50 (850)	5	6.00	208/240	708

Contact Carbolite for larger size clean room ovens.

Specify voltage at time of order.

Ovens operate on single phase voltage.

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



General Features

- Three chamber sizes to choose from.
- 400°C, 500°C and 600°C maximum operating temperatures.
- Designed for use in Class 100 clean room.
- Temperature Stability: Better than $\pm 0.5^\circ\text{C}$.
- Fully welded stainless steel inner chamber is easy to clean and resistant to corrosion.
- Each oven is provided with perforated stainless steel shelves for convenient loading and unloading. See specification chart.
- Powerful fan and air guide system provides better than $\pm 5^\circ\text{C}$ uniformity throughout the working area of chamber.*
- Long-life high efficiency mineral insulated metal sheathed heating elements.
- Chamber ventilation and exhaust vent is located on top of chamber.
- Superior oven insulation design provides excellent thermal efficiency and safe outer case temperatures.
- Compression fittings effectively seal the fan shaft, heating element and thermocouple where they enter the oven chamber.
- Positive latch door closure provides effective thermal seal of chamber.
- Oven insulation is appropriately sealed to prevent contamination of the oven chamber or work area.
- Choice of 301 or programmable controls
- Multiple built-in options available. (See pages 66 & 67)



HTCR 6/28/3508P1/OTC

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Shelving Specifications by Chamber Size

SHELVES	28	95	220
Number Supplied	2	3	3
Maximum Possible	2	5	5
Max. Dist. Load/Shelf (lb)	22	33	55
Total Maximum Load (lb)	44	66	110

400°C, 500°C & 600°C High Temperature Clean Room Ovens

Oven Model	Max. Temp. (°C)	Internal Chamber Dimensions Inches (mm)			External Dimensions Inches (mm)			Maximum Power (kW)	Oven Voltage	Shipping Weight (lb.)
		Height	Width	Depth	Height	Width	Depth			
HTCR 4/28	400	12.00 (305)	12.00 (305)	12.00 (305)	31.75 (805)	22.00 (560)	32.00 (810)	1.00	120/208/240	197
HTCR 4/95	400	18.00 (455)	18.00 (455)	18.00 (455)	37.75 (960)	32.00 (810)	39.75 (1010)	2.00	208/240	400
HTCR 4/220	400	24.00 (610)	24.00 (610)	24.00 (610)	43.50 (1105)	38.00 (965)	45.00 (1145)	3.00	208/240	587
HTCR 5/28	500	12.00 (305)	12.00 (305)	12.00 (305)	31.75 (805)	22.00 (560)	32.00 (810)	2.00	208/240	197
HTCR 5/95	500	18.00 (455)	18.00 (455)	18.00 (455)	37.75 (960)	32.00 (810)	39.75 (1010)	3.00	208/240	400
HTCR 5/220	500	24.00 (610)	24.00 (610)	24.00 (610)	43.50 (1105)	38.00 (965)	45.00 (1145)	4.50	208/240	587
HTCR 6/28	600	12.00 (305)	12.00 (305)	12.00 (305)	31.75 (805)	22.00 (560)	32.00 (810)	2.00	208/240	197
HTCR 6/95	600	18.00 (455)	18.00 (455)	18.00 (455)	37.75 (960)	32.00 (810)	39.75 (1010)	4.50	208/240	400
HTCR 6/220	600	24.00 (610)	24.00 (610)	24.00 (610)	43.50 (1105)	38.00 (965)	45.00 (1145)	6.00	208/240	587

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