



## CLEAN ROOM OVEN - CR

**The CR Series of 250 °C clean room ovens comprises nine standard models in sizes from the 30 litre model to the 220 litre model** which, once processed through a customer's standard material entry regime, are suitable for operation within an ISO 14644-1 Class 5 environment\*. All sources of particulate contamination are fully sealed. Their easily cleaned stainless steel interiors and gloss white epoxy exteriors prevent the shedding of particulate contamination.

\*Federal Standard 209E Class 100 was superseded in 2001 by ISO 14644-1 Class 5

## STANDARD FEATURES

- | 250°C maximum operating temperature
- | 30 to 220 litre chamber volumes
- | Fully sealed low thermal mass insulation to avoid shedding fibres
- | Fully enclosed brushless fan motor
- | Carbolite 301 controller, with single ramp to set-point & process timer
- | Perforated stainless steel shelves
- | Particle free silicone rubber door seal
- | Membrane control panel with clear bright LED display

## OPTIONS (SPECIFY THESE AT TIME OF ORDER)

- | A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available - more information about controllers
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | Access port for independent thermocouple
- | Cable entry ports
- | Frame to enable units to be stacked one upon another
- | Lockable door
- | Door switch to isolate elements and fan
- | Fully customised through wall (flange fitted) designs are available
- | Optional floor stand
- | Inert atmosphere option

Content may be subject to modifications or corrections

## TECHNICAL DETAILS (MODELS)

	<b>CR/30</b>	<b>CR/70</b>
<b>Max temp (°C)</b>	250	250
<b>Temp stability (°C)</b>	±0.2	±0.2
<b>Temp uniformity (°C)</b>	±3.0 @ 250°C	±3.0 @ 250°C
<b>Heat-up time (mins)</b>	35	35
<b>Recovery time (mins)</b>	4	4
<b>Dimensions: Internal H x W x D (mm)</b>	310 x 310 x 310	310 x 470 x 470
<b>Dimensions: External H x W x D (mm)</b>	685 x 460 x 670	685 x 620 x 820
<b>Shelves fitted / accepted</b>	2 / 2	2 / 2
<b>Shelf loading each / total (kg)</b>	10 / 20	10 / 20
<b>Configuration</b>	Bench-top	Bench-top
<b>Volume (litres)</b>	30	68
<b>Max power (W)</b>	1000	1500

	<b>CR/130</b>	<b>CR/180</b>
<b>Max temp (°C)</b>	250	250
<b>Temp stability (°C)</b>	±0.2	±0.2
<b>Temp uniformity (°C)</b>	±4.0 @ 250°C	±5.0 @ 250°C
<b>Heat-up time (mins)</b>	35	58
<b>Recovery time (mins)</b>	4	5
<b>Dimensions: Internal H x W x D (mm)</b>	550 x 470 x 470	770 x 470 x 470
<b>Dimensions: External H x W x D (mm)</b>	925 x 620 x 820	1145 x 620 x 820
<b>Shelves fitted / accepted</b>	3 / 5	3 / 7
<b>Shelf loading each / total (kg)</b>	10 / 40	10 / 50
<b>Configuration</b>	Bench-top	Bench-top
<b>Volume (litres)</b>	121	170
<b>Max power (W)</b>	2000	2500

**Please note**

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- Minimum operating temperature approximately ambient +30°C
- Maximum power and heat up time based on a 240V supply
- The uniform volume is smaller than the overall chamber volume

[www.carbolite.com/cr](http://www.carbolite.com/cr)