

### **General Information**

The CR Series of 250 °C clean room ovens comprises nine standard models in sizes from the 30 litre model to the 1790 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\*Federal Standard 209E Class 100 was superseded in 2001 by ISO 14644-1 Class 5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 1810 litre chamber volumes
- · Fully sealed low thermal mass insulation to avoid shedding fibres
- Fully enclosed brushless fan motor
- Carbolite Gero 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)

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- Access port for independent thermocouple
- · Cable entry ports
- Viewing window
- · 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

#### **Technical Specifications**



250
30
±0.2
±3.0@250°C
35
4
310 x 310 x 310
65 x 460 x 670
2/2
10 / 20
Bench-top
1000
250
68
±0.2
±3.0 @ 250°C
35
4
310 x 470 x 470
65 x 620 x 820
2/2
10 / 20
Bench-top
1500
250
121
±0.2
±4.0 @ 250°C
35
4

Dimensions:550 x 470 x 470Internal H x W x D (mm)925 x 620 x 820



External H x W x D (mm)	
Shelves fitted / accepted	3/5
Shelf loading each / total (kg)	10 / 40
Configuration	Bench-top
Max power (W)	2000
CR/180	
Max temp (°C)	250
Volume (litres)	170
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0@250°C
Heat-up time (mins)	58
Recovery time (mins)	5
Dimensions: Internal H x W x D (mm)	770 x 470 x 470
Dimensions: External H x W x D (mm)	1145 x 620 x 820
Shelves fitted / accepted	3 / 7
Configuration	Bench-top
Shelf loading each / total (kg)	10 / 50
Max power (W)	2500
08/000	
CR/220	050
Max temp (°C)	250
Volume (litres)	227
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 250 °C
Heat-up time (mins)	75
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	610 x 610 x 610
Dimensions: External H x W x D (mm)	1360 940 x 970
Shelves fitted / accepted	3 / 5
Shelf loading each / total (kg)	15 / 45
Configuration	Bench-top
Max power (W)	3000



CR/330	
Max temp (°C)	250
Volume (litres)	340
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 250°C
Heat-up time (mins)	80
Recovery time (mins)	6
Dimensions: Internal H x W x D (mm)	915 x 610 x 610
Dimensions: External H x W x D (mm)	1670 x 940 x 970
Shelves fitted / accepted	4 / 8
Shelf loading each / total (kg)	15 / 60
Configuration	Floor-standing
Max power (W)	4500
00/450	
CR/450	250
Max temp (°C) Volume (litres)	450
Temp stability (°C)	±0.3
,	±5.0 @ 250°C
Temp uniformity (°C) Heat-up time (mins)	- <u>-</u> 5.0@250°C
Recovery time (mins)	9
Dimensions:	1220 x 610 x 610
Internal H x W x D (mm)	1220 × 010 × 010
Dimensions: External H x W x D (mm)	1750 x 780 x 850
Shelves fitted / accepted	5/11
Shelf loading each / total (kg)	15 / 75
Configuration	Floor-standing
Max power (W)	6000
CR/840	050
Max temp (°C)	250
Volume (litres)	850
Temp stability (°C)	±0.3
Temp uniformity (°C)	±5.0 @ 250°C
Heat-up time (mins)	
Recovery time (mins)	
Dimensions: Internal H x W x D (mm)	1525 x 915 x 610
Dimensions:	2235 x 1395 x 970



External H x W x D (mm)	
Shelves fitted / accepted	6
Shelf loading each / total (kg)	15 /
Configuration	Floor-standing
Max power (W)	12000
CR/1790	
Max temp (°C)	250
Volume (litres)	1810
Temp stability (°C)	±0.3
Temp uniformity (°C)	±5.0 @ 250 °C
Heat-up time (mins)	
Recovery time (mins)	
Dimensions: Internal H x W x D (mm)	1220 x 1220 x 1220
Dimensions: External H x W x D (mm)	1930 x 1750 x 1590
Shelves fitted / accepted	5
Shelf loading each / total (kg)	15 /
Configuration	Floor-standing
Max power (W)	18000

#### 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