

Clean Room Oven - CR

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*Federal Standard 209E Class 100 was superseded in 2001 by ISO 14644-1 Class 5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

Clean Room Oven - CR

CR/30

Max temp (°C)	250
Volume (litres)	30
Temp stability (°C)	±0.2
Temp uniformity (°C)	±3.0 @ 250°C
Heat-up time (mins)	35
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	310 x 310 x 310
Dimensions: External H x W x D (mm)	65 x 460 x 670
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Configuration	Bench-top
Max power (W)	1000

CR/70

Max temp (°C)	250
Volume (litres)	68
Temp stability (°C)	±0.2
Temp uniformity (°C)	±3.0 @ 250°C
Heat-up time (mins)	35
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	310 x 470 x 470
Dimensions: External H x W x D (mm)	65 x 620 x 820
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Configuration	Bench-top
Max power (W)	1500

CR/130

Max temp (°C)	250
Volume (litres)	121
Temp stability (°C)	±0.2
Temp uniformity (°C)	±4.0 @ 250°C
Heat-up time (mins)	35
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	550 x 470 x 470
Dimensions:	925 x 620 x 820

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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:	770 x 470 x 470
Internal H x W x D (mm)	
Dimensions:	1145 x 620 x 820
External H x W x D (mm)	
Shelves fitted / accepted	3 / 7
Configuration	Bench-top
Shelf loading each / total (kg)	10 / 50
Max power (W)	2500

CR/220

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:	610 x 610 x 610
Internal H x W x D (mm)	
Dimensions:	1360 940 x 970
External H x W x D (mm)	
Shelves fitted / accepted	3 / 5
Shelf loading each / total (kg)	15 / 45
Configuration	Bench-top
Max power (W)	3000

Clean Room Oven - CR

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

CR/450

Max temp (°C)	250
Volume (litres)	450
Temp stability (°C)	±0.3
Temp uniformity (°C)	±5.0 @ 250°C
Heat-up time (mins)	75
Recovery time (mins)	9
Dimensions: Internal H x W x D (mm)	1220 x 610 x 610
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

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

Clean Room Oven - CR

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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.