



HIGH TEMPERATURE CLEAN ROOM OVEN

HTCR

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HTCR**HIGH TEMPERATURE CLEAN ROOM OVEN**

The HTCR Series of clean room ovens comprises sixteen standard models with five sizes between 28 and 1000 litres available with maximum temperatures of 400°C, 500°C and 600°C.

Once processed through a customer's standard material entry regime HTCR Ovens are suitable for operation within an **ISO 14644-1 Class 6** environment*. Optionally HTCR ovens can be supplied for operation within an **ISO 14644-1 Class 5** environment*.

*Federal Standard 209E Class 1000 was superseded in 2001 by ISO 14644-1 Class 6

*Federal Standard 209E Class 100 was superseded in 2001 by ISO 14644-1 Class 5



HTCR**STANDARD FEATURES**

- | 400°C, 500°C or 600°C maximum operating temperatures
- | 28 to 1000 litre chamber volumes
- | Full 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
- | Smooth easily cleaned gloss epoxy exterior
- | Polished stainless steel sealed interior
- | Perforated stainless steel shelves
- | Particle free silicone rubber door seal
- | Membrane control panel with clear bright LED display
- | Double skin construction ensures safe outer case temperature
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | Door switch

HTCR**OPTIONS**

Specify these at time of order.

- | A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available
- | ISO-146441 Class 5 models are optionally available
- | Access port for independent thermocouple
- | Cable entry ports
- | Lockable door
- | Fixed or castor mounted floor stands
- | Through wall (flange fitted) as well as fully bespoke designs are available
- | Optional floor stand

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TECHNICAL DATA

	HTCR4/95	HTCR4/220	HTCR5/95	HTCR5/220	HTCR6/95	HTCR6/220
Max temp (°C)	400	400	500	500	600	600
Min temp (°C)	Ambient +60	Ambient +60	Ambient +60	Ambient +60	Ambient +60	Ambient +60
Temp stability (°C)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Temp uniformity (°C)	±5.0 @ 250°C	±5.0 @ 250°C	±5.0 @ 250°C	±5.0 @ 250°C	±5.0 @ 250°C	±5.0 @ 250°C
Heat-up time (mins)	90	75	110	105	110	120
Recovery time (mins)	10	16	16	16	20	20
Dimensions: Internal H x W x D (mm)	455 x 455 x 455	610 x 610 x 610	455 x 455 x 455	610 x 610 x 610	455 x 455 x 455	610 x 610 x 610
Dimensions: External H x W x D (mm)	1010 x 810 x 1120	1160 x 1030 x 1280	1010 x 810 x 1120	1160 x 1030 x 1280	1010 x 810 x 1120	1160 x 1030 x 1280
Shelves fitted / accepted	3 / 4	3 / 4	3 / 4	3 / 4	3 / 4	3 / 4
Shelf loading each / total (kg)	15 / 30	10 / 50	15 / 30	10 / 50	10 / 20	15 / 30
Configuration	Bench-top	Bench-top	Bench-top	Bench-top	Bench-top	Bench-top
Volume (litres)	94	227	94	227	94	227
Max power (W)	3000	4000	4500	6000	4500	6000

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DOWNLOADS

PRODUCT DATA SHEET HTCR →

carbolite.com/files/450719/product-data-sheet-htcr.pdf

CLEAN ROOM PRODUCT INFO →

carbolite.com/files/424859/clean-room-product-info.pdf

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