CARBOLITE®
a VERDER company



## HIGH TEMPERATURE CLEAN ROOM OVEN

# HTCR

carbolite.com/products/ovens/clean-room-ovens/htcr-high-temperature-clean-room-ovens/

HTCR

# HIGH TEMPERATURE CLEAN ROOM OVEN

The HTCR Series of clean room ovens comprises sixteen standard models with two sizes of 95 and 220 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*Federal Standard 209E Class 1000 was superseded in 2001 by ISO 14644-1 Class 6.
*Federal Standard 209E Class 100 was superseded in 2001 by ISO 14644-1 Class 5.

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# STANDARD FEATURES

- 400°C, 500°C or 600°C maximum operating temperatures
- Full sealed low thermal mass insulation to avoid shedding fibres
- Carbolite 301 controller, with single ramp to set-point & process timer
- Polished stainless steel sealed interior
- Particle free silicone rubber door seal
- Double skin construction ensures safe outer case temperature
- Door switch
- 95 and 220 litre chamber volumes
- Fully enclosed brushless fan motor
- Smooth easily cleaned gloss epoxy exterior
- Perforated stainless steel shelves
- Membrane control panel with clear bright LED display
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)

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# OPTIONS

Specify these at time of order.

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

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# TECHNICAL DATA

| Specification | 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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## CONTACT US →

carbolite.com/contact-services/contact-form/?prefilltext=contact_form.request&product=C-1-CRO-B

## REQUEST A QUOTE →

carbolite.com/contact-services/contact-form/?prefilltext=contact_form.quote_request&product=C-1-CRO-B

## PRODUCT DATA SHEET →

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



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