

HTCR High Temperature Clean Room Ovens

Standard features

- ✓ Designed for operation within Class 1000 environments (US FED STD 209E).
- ✓ 400°C, 500°C or 600°C maximum operating temperatures.
- ✓ 28 to 1000 litre chamber volumes.
- ✓ Fully sealed low thermal mass insulation avoids shedding fibres.
- ✓ Fully enclosed brushless fan motor.
- ✓ Carbolite 301 controller, with single ramp to set-point facility.
- ✓ 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 for cool safe outer case temperature.
- ✓ Fully adjustable chamber ventilation.

Options

specify these at time of order

- ✦ Over-temperature protection to DIN 12-880 class 2 (recommended to protect valuable contents & for unattended operation).
- ✦ Digital process control timers & multi segment programmers available.
- ✦ Paperless DAQ (Data Acquisition) graphical recorders available.
- ✦ Top access port for independent thermocouple.
- ✦ Cable access port.
- ✦ Viewing window door.
- ✦ Through door illumination system.
- ✦ Stacking frame.
- ✦ Key-lock door.
- ✦ Door switch.
- ✦ Fixed or castor mounted floor stands.
- ✦ Through wall (flange fitted) as well as fully bespoke designs are available.



HTCR -/95 & HTCR -/28

All sources of particulate contamination are fully sealed, whilst the sealed stainless steel interior and gloss white epoxy finish make the ovens easily cleaned. Bespoke ovens are available with pass through construction or with flanges for through wall mounting into the cleanroom area.

HTCR High Temperature Clean Room Ovens



HTCR 6/95 & HTCR 6/28

| Model | Max temp (°C) | Temp stability (°C) | Temp uniformity (°C) @250°C | Heat-up time to max (mins) | Recovery time to max (mins) | Dimensions | | Shelves fitted/accepted | Shelf loading Each/total (kg) | Volume (litres) | Max power (W) | Power supply |
|------------|---------------|---------------------|-----------------------------|----------------------------|-----------------------------|-------------------------|-------------------------|-------------------------|-------------------------------|-----------------|---------------|-------------------------|
| | | | | | | Internal H x W x D (mm) | External H x W x D (mm) | | | | | |
| HTCR4/28 | 400 | ±0.5 | ±5.0 | 50 | 10 | 305 x 305 x 305 | 880 x 675 x 885 | 2 / 2 | 10 20 | 30 | 1000 | 230V single phase |
| HTCR4/95 | 400 | ±0.5 | ±5.0 | 90 | 10 | 455 x 455 x 455 | 1010 x 810 x 1120 | 3 / 5 | 15 30 | 68 | 3000 | 230V single phase |
| HTCR4/220 | 400 | ±0.5 | ±5.0 | 75 | 16 | 61 x 610 x 610 | 1160 x 1030 x 1280 | 3 / 5 | 10 50 | 121 | 6000 | 230V single phase |
| HTCR4/500 | 400 | ±0.5 | ±5.0 | — | — | 800 x 800 x 800 | 1305 x 1115 x 1450 | 3 / 5 | — | 500 | 7500 | Single phase or 3 phase |
| HTCR4/1000 | 400 | ±0.5 | ±5.0 | — | — | 1000 x 1000 x 1000 | 1310 x 1530 x 1635 | 3 / 5 | — | 1000 | 12000 | 3 phase |
| HTCR5/28 | 500 | ±0.5 | ±5.0 | 75 | 16 | 305 x 305 x 305 | 880 x 675 x 885 | 2 / 2 | 10 20 | 170 | 2000 | 230V single phase |
| HTCR5/95 | 500 | ±0.5 | ±5.0 | 110 | 16 | 455 x 455 x 455 | 1010 x 810 x 1120 | 3 / 5 | 15 30 | 227 | 3000 | Single phase |
| HTCR5/220 | 500 | ±0.5 | ±5.0 | 105 | 16 | 61 x 610 x 610 | 1160 x 1030 x 1280 | 3 / 5 | 10 50 | 340 | 4500 | Single phase or 3 phase |
| HTCR5/500 | 500 | ±0.5 | ±5.0 | — | — | 800 x 800 x 800 | 1305 x 1155 x 1450 | 3 / 5 | 10 20 | 500 | 9000 | Single phase or 3 phase |
| HTCR5/1000 | 500 | ±0.5 | ±5.0 | — | — | 305 x 305 x 305 | 1310 x 1530 x 1635 | 3 / 5 | 15 30 | 1000 | 15000 | 3 phase |
| HTCR6/28 | 600 | ±0.5 | ±5.0 | 110 | 20 | 455 x 455 x 455 | 880 x 675 x 885 | 2 / 2 | 10 50 | 450 | 2000 | 3 phase |
| HTCR6/95 | 600 | ±0.5 | ±5.0 | 110 | 20 | 61 x 610 x 610 | 1010 x 810 x 1120 | 3 / 5 | 10 20 | 850 | 4500 | 3 phase |
| HTCR6/220 | 600 | ±0.5 | ±5.0 | 120 | 20 | 800 x 800 x 800 | 1160 x 1030 x 1280 | 3 / 5 | 15 30 | 1810 | 6000 | 3 phase |
| HTCR6/500 | 600 | ±0.5 | ±5.0 | — | — | 800 x 800 x 800 | 1305 x 1155 x 1450 | 3 / 5 | — | 500 | 12000 | Single phase or 3 phase |
| HTCR6/1000 | 600 | ±0.5 | ±5.0 | — | — | 1000 x 1000 x 1000 | 1310 x 1530 x 1635 | 3 / 5 | — | 1000 | 15000 | 3 phase |



Minimum operating temperature is 50°C

Uniformity values are measured in an empty chamber, with vents closed after a stabilisation period

Shelf loadings are based on evenly distributed weight



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.