CARBOLITE®
a VERDER company



HIGH TEMPERATURE INDUSTRIAL OVEN

HT

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HT

HIGH TEMPERATURE INDUSTRIAL OVEN

The HT high temperature ovens are manufactured in three standard chamber sizes with maximum operating temperatures of 400°C, 500°C, 600°C and 700°C. Their robust construction incorporates heavy duty hinges, door catches and shelving systems.

This range also provides a foundation upon which a wide range of custom modifications can be added.

Typical examples of which are the more sophisticated control systems and data recording that is required for applications such as AMS 2750H heat treatment under Nadcap, or modifications to handle heavier loads or assist in loading and unloading the oven, or simply larger chamber sizes than are offered in the standard range.



HT

STANDARD FEATURES

- 400°C, 500°C, 600°C or 700°C maximum operating temperatures
- 95, 220 or 350 litre capacity
- Carbolite 301 controller, with single ramp to set-point and process timer
- Stainless steel perforated shelves
- Robust construction
- Excellent performance & reliability
- Stainless steel liner
- Door switch

HT

OPTIONS

Specify these at time of order.

- A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available.
- Additional shelves
- Viewing window (not compatible with stoving & curing option)
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- Heavy duty reinforced base and shelves
- Stoving & curing option for extraction of small volumes of volatile solvents; increases the maximum power by 1500 W (not compatible with viewing window option)

HT

TECHNICAL DATA

TEMPERATURE AND PERFORMANCE

Model	Max temp (°C)	Min temp (°C)	Temp stability (°C)	Temp uniformity (°C)	Heat-up time (mins)	Recovery time (mins)
HT4/95	400	Ambient +60	±0.5	±5.0	60	10
HT4/220	400	Ambient +60	±0.5	±5.0	60	10
HT4/350	400	Ambient +60	±0.5	±5.0	60	10
HT5/95	500	Ambient +60	±0.5	±5.0	60	16
HT5/220	500	Ambient +60	±0.5	±5.0	60	16
HT5/350	500	Ambient +60	±0.5	±5.0	60	16
HT6/95	600	Ambient +60	±0.5	±5.0	70	20
HT6/220	600	Ambient +60	±0.5	±5.0	90	20
HT6/350	600	Ambient +60	±0.5	±5.0	90	20
HT7/95	700	Ambient +60	±0.5	±5.0	95	24
HT7/220	700	Ambient +60	±0.5	±5.0	120	24

DIMENSIONS

Model	Internal H × W × D (mm)	External H × W × D (mm)
HT4/95	455 × 455 × 455	1010 × 880 × 1120
HT4/220	610 × 610 × 610	1160 × 1030 × 1280
HT4/350	700 × 700 × 700	1775 × 1750 × 1200
HT5/95	455 × 455 × 455	1010 × 880 × 1120
HT5/220	610 × 610 × 610	1160 × 1030 × 1280
HT5/350	700 × 700 × 700	1775 × 1750 × 1200
HT6/95	455 × 455 × 455	1010 × 880 × 1120
HT6/220	610 × 610 × 610	1160 × 1030 × 1280
HT6/350	700 × 700 × 700	1775 × 1750 × 1200
HT7/95	455 × 455 × 455	1185 × 1005 × 1165
HT7/220	610 × 610 × 610	1185 × 1080 × 1280

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TECHNICAL DATA

SHELVES, LOADING, CAPACITY & POWER

Model	Shelves fitted / accepted	Shelf loading each / total (kg)	Heavy duty base max. weight (kg)	Heavy duty shelves max. quantity	Heavy duty shelves max. weight / shelf (kg)	Volume (litres)	Max power (W)
HT4/95	3 / 4	15 / 30	100	3	25	94	3000
HT4/220	3 / 4	25 / 50	150	4	50	227	4000
HT4/350	3 / 3	25 / 50	250	4	60	343	6000
HT5/95	3 / 4	15 / 30	100	3	25	94	4500
HT5/220	3 / 4	25 / 50	150	4	50	227	6000
HT5/350	3 / 3	25 / 50	250	4	60	343	7500
HT6/95	3 / 4	15 / 30	100	3	25	94	4500
HT6/220	3 / 4	25 / 50	150	4	50	227	6000
HT6/350	3 / 3	25 / 50	250	4	60	343	9000
HT7/95	3 / 4	10 / 30	100	3	25	94	6000
HT7/220	3 / 4	15 / 45	150	4	50	227	10000

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DOWNLOADS

PRODUCT DATA SHEET HT →
carbolite.com/files/450696/product-data-sheet-ht.pdf

LABORATORY/INDUSTRIAL OVENS & FURNACES →
carbolite.com/files/12830/laboratory-industrial-ovens-furnaces.pdf

PRODUCT OVERVIEW →
carbolite.com/files/96107/product-overview.pdf

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