



## HIGH TEMPERATURE INDUSTRIAL OVEN - HT

**The HT high temperature ovens are manufactured in 4 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 2750F 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.

## STANDARD FEATURES

- | 400°C, 500°C, 600°C or 700°C maximum operating temperatures
- | 28, 95, 220 or 350 litre capacity
- | Carbolite 301 controller, with single ramp to set-point & process timer
- | Robust construction
- | Excellent performance & reliability
- | Stainless steel liner
- | Stainless steel perforated shelves
- | Door switch

## OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

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

## TECHNICAL DETAILS (MODELS)

	<b>HT4/28</b>	<b>HT4/95</b>	<b>HT4/220</b>
<b>Max temp (°C)</b>	400	400	400
<b>Min temp (°C)</b>	Ambient +60	Ambient +60	Ambient +60
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0	±5.0	±5.0
<b>Heat-up time (mins)</b>	60	60	60
<b>Recovery time (mins)</b>	10	10	10
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	305 x 305 x 305	455 x 455 x 455	610 x 610 x 610
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	880 x 685 x 885	1010 x 880 x 1120	1160 x 1030 x 1280
<b>Shelves fitted / accepted</b>	2 / 2	3 / 4	3 / 4
<b>Shelf loading each / total (kg)</b>	10 / 20	15 / 30	25 / 50
<b>Optional heavy duty reinforced base max. weight (kg)</b>	40	100	150
<b>Optional heavy duty shelves max. quantity</b>	2	3	4
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	20	25	50
<b>Volume (litres)</b>	28	94	227
<b>Max power (W)</b>	2000	3000	4000

	HT4/350	HT5/28	HT5/95
<b>Max temp (°C)</b>	400	500	500
<b>Min temp (°C)</b>	Ambient +60	Ambient +60	Ambient +60
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0	±5.0	±5.0
<b>Heat-up time (mins)</b>	60	60	60
<b>Recovery time (mins)</b>	10	16	16
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	700 x 700 x 700	305 x 305 x 305	455 x 455 x 455
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1775 x 1750 x 1200	880 x 685 x 885	1010 x 880 x 1120
<b>Shelves fitted / accepted</b>	3 / 3	2 / 2	3 / 4
<b>Shelf loading each / total (kg)</b>	25 / 50	10 / 20	15 / 30
<b>Optional heavy duty reinforced base max. weight (kg)</b>	250	40	100
<b>Optional heavy duty shelves max. quantity</b>	4	2	3
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	60	20	25
<b>Volume (litres)</b>	343	28	94
<b>Max power (W)</b>	6000	2000	4500

	HT5/220	HT5/350	HT6/28
<b>Max temp (°C)</b>	500	500	600
<b>Min temp (°C)</b>	Ambient +60	Ambient +60	Ambient +60
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0	±5.0	±5.0
<b>Heat-up time (mins)</b>	60	60	75
<b>Recovery time (mins)</b>	16	16	20
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	610 x 610 x 610	700 x 700 x 700	305 x 305 x 305
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1160 x 1030 x 1280	1775 x 1750 x 1200	880 x 685 x 885
<b>Shelves fitted / accepted</b>	3 / 4	3 / 3	2 / 2
<b>Shelf loading each / total (kg)</b>	25 / 50	25 / 50	10 / 20
<b>Optional heavy duty reinforced base max. weight (kg)</b>	150	250	40
<b>Optional heavy duty shelves max. quantity</b>	4	4	2
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	50	60	20
<b>Volume (litres)</b>	227	343	28
<b>Max power (W)</b>	6000	7500	2000

	HT6/95	HT6/220	HT6/350
<b>Max temp (°C)</b>	600	600	600
<b>Min temp (°C)</b>	Ambient +60	Ambient +60	Ambient +60
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0	±5.0	±5.0
<b>Heat-up time (mins)</b>	70	90	90
<b>Recovery time (mins)</b>	20	20	20
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	455 x 455 x 455	610 x 610 x 610	700 x 700 x 700
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1010 x 880 x 1120	1160 x 1030 x 1280	1775 x 1750 x 1200
<b>Shelves fitted / accepted</b>	3 / 4	3 / 4	3 / 3
<b>Shelf loading each / total (kg)</b>	15 / 30	25 / 50	25 / 50
<b>Optional heavy duty reinforced base max. weight (kg)</b>	100	150	250
<b>Optional heavy duty shelves max. quantity</b>	3	4	4
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	25	50	60
<b>Volume (litres)</b>	94	227	343
<b>Max power (W)</b>	4500	6000	9000

	HT7/28	HT7/95	HT7/220
<b>Max temp (°C)</b>	700	700	700
<b>Min temp (°C)</b>	Ambient +60	Ambient +60	Ambient +60
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0	±5.0	±5.0
<b>Heat-up time (mins)</b>	90	95	120
<b>Recovery time (mins)</b>	24	24	24
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	305 x 305 x 305	455 x 455 x 455	610 x 610 x 610
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1040 x 780 x 910	1185 x 1005 x 1165	1185 x 1080 x 1280
<b>Shelves fitted / accepted</b>	2 / 2	3 / 4	3 / 4
<b>Shelf loading each / total (kg)</b>	8 / 16	10 / 30	15 / 45
<b>Optional heavy duty reinforced base max. weight (kg)</b>	40	100	150
<b>Optional heavy duty shelves max. quantity</b>	2	3	4
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	20	25	50
<b>Volume (litres)</b>	28	94	227
<b>Max power (W)</b>	3000	6000	10000

#### Please note

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Maximum power and heat up times based on a 240V supply
- Stoving and curing option may require increased maximum power
- Shelf loadings are based on evenly distributed weight
- The uniform volume is smaller than the total chamber volume

[www.carbolite.com/ht](http://www.carbolite.com/ht)