

High Temperature Industrial Oven - HT

General Information

The HT high temperature ovens are manufactured in 4 standard chamber sizes with maximum operating temperatures of 400°C, 500°C and 600°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 2750E 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 or 600°C maximum operating temperatures
- 28, 95, 220 or 350 litre capacity
- Carbolite Gero 301 controller, with single ramp to set-point & process timer
- Robust construction
- Excellent performance & reliability
- Stainless steel liner
- Stainless steel perforated shelves

Options (specify these at time of order)

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- 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 Specifications

High Temperature Industrial Oven - HT

HT4/28

Max temp (°C)	400
Min temp (°C)	Ambient +60
Volume (litres)	28
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	10
Dimensions: Internal H x W x D (mm)	305 x 305 x 305
Dimensions: External H x W x D (mm)	880 x 685 x 885
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Optional heavy duty reinforced base max. weight (kg)	40
Optional heavy duty shelves max. quantity	2
Optional heavy duty shelves max. weight / shelf (kg)	20
Max power (W)	1000

HT4/95

Max temp (°C)	400
Min temp (°C)	Ambient +60
Volume (litres)	94
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	10
Dimensions: Internal H x W x D (mm)	455 x 455 x 455
Dimensions: External H x W x D (mm)	1010 x 880 x 1120
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	15 / 30
Optional heavy duty reinforced base max. weight (kg)	100
Optional heavy duty shelves max. quantity	3
Optional heavy duty shelves max. weight / shelf (kg)	25
Max power (W)	3000

High Temperature Industrial Oven - HT

HT4/220

Max temp (°C)	400
Min temp (°C)	Ambient +60
Volume (litres)	227
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	10
Dimensions: Internal H x W x D (mm)	610 x 610 x 610
Dimensions: External H x W x D (mm)	1160 x 1030 x 1280
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	150
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	50
Max power (W)	3000

HT4/350

Max temp (°C)	400
Min temp (°C)	Ambient +60
Volume (litres)	343
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	06
Recovery time (mins)	10
Dimensions: Internal H x W x D (mm)	700 x 700 x 700
Dimensions: External H x W x D (mm)	1775 x 1750 x 1200
Shelves fitted / accepted	3 / 3
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	250
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	60
Max power (W)	6000

High Temperature Industrial Oven - HT

HT5/28

Max temp (°C)	500
Min temp (°C)	Ambient +60
Volume (litres)	28
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	16
Dimensions: Internal H x W x D (mm)	305 x 305 x 305
Dimensions: External H x W x D (mm)	880 x 685 x 885
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Optional heavy duty reinforced base max. weight (kg)	40
Optional heavy duty shelves max. quantity	2
Optional heavy duty shelves max. weight / shelf (kg)	20
Max power (W)	2000

HT5/95

Max temp (°C)	500
Min temp (°C)	Ambient +60
Volume (litres)	94
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	16
Dimensions: Internal H x W x D (mm)	455 x 455 x 455
Dimensions: External H x W x D (mm)	1010 x 880 x 1120
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	15 / 30
Optional heavy duty reinforced base max. weight (kg)	100
Optional heavy duty shelves max. quantity	3
Optional heavy duty shelves max. weight / shelf (kg)	25
Max power (W)	3000

High Temperature Industrial Oven - HT

HT5/220

Max temp (°C)	500
Min temp (°C)	Ambient +60
Volume (litres)	227
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	16
Dimensions: Internal H x W x D (mm)	610 x 610 x 610
Dimensions: External H x W x D (mm)	1160 x 1030 x 1280
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	150
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	50
Max power (W)	4500

HT5/350

Max temp (°C)	500
Min temp (°C)	Ambient +60
Volume (litres)	343
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Recovery time (mins)	16
Dimensions: Internal H x W x D (mm)	700 x 700 x 700
Dimensions: External H x W x D (mm)	1775 x 1750 x 1200
Shelves fitted / accepted	3 / 3
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	250
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	60
Max power (W)	750

High Temperature Industrial Oven - HT

HT6/28

Max temp (°C)	600
Min temp (°C)	Ambient +60
Volume (litres)	28
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	75
Recovery time (mins)	20
Dimensions: Internal H x W x D (mm)	305 x 305 x 305
Dimensions: External H x W x D (mm)	880 x 685 x 885
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Optional heavy duty reinforced base max. weight (kg)	40
Optional heavy duty shelves max. quantity	2
Optional heavy duty shelves max. weight / shelf (kg)	20
Max power (W)	2000

HT6/95

Max temp (°C)	600
Min temp (°C)	Ambient +60
Volume (litres)	94
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	70
Recovery time (mins)	20
Dimensions: Internal H x W x D (mm)	455 x 455 x 455
Dimensions: External H x W x D (mm)	1010 x 880 x 1120
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	15 / 30
Optional heavy duty reinforced base max. weight (kg)	100
Optional heavy duty shelves max. quantity	3
Optional heavy duty shelves max. weight / shelf (kg)	25
Max power (W)	4500

High Temperature Industrial Oven - HT

HT6/220

Max temp (°C)	600
Min temp (°C)	Ambient +60
Volume (litres)	227
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	90
Recovery time (mins)	20
Dimensions: Internal H x W x D (mm)	610 x 610 x 610
Dimensions: External H x W x D (mm)	1160 x 1030 x 1280
Shelves fitted / accepted	3 / 4
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	150
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	50
Max power (W)	6000

HT6/350

Max temp (°C)	600
Min temp (°C)	Ambient +60
Volume (litres)	343
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0
Heat-up time (mins)	90
Recovery time (mins)	20
Dimensions: Internal H x W x D (mm)	700 x 700 x 700
Dimensions: External H x W x D (mm)	1775 x 1750 x 1200
Shelves fitted / accepted	3 / 3
Shelf loading each / total (kg)	25 / 50
Optional heavy duty reinforced base max. weight (kg)	250
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	60
Max power (W)	9000

High Temperature Industrial Oven - HT

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