



LHT 6/60

LHT-Series, Laboratory High Temperature Ovens

Standard features:

- 400°C, 500°C or 600°C Operating temperatures.
 - 30, 60 & 120 Liter capacities.
 - 301 PID controller with ramp to set point function.
 - Heavy duty convection fan for good uniformity.
 - Low thermal mass insulation for energy efficiency & rapid heating.
 - Corrosion resistant, polished stainless steel interior .
 - 2 Multi-position shelves.
 - Suitable for continuous operation (see options*) .
 - Double skin construction for cool safe outer case .
 - Hard wearing, zinc coated & stoved epoxy polyester coated exterior.
 - Chamber illumination (requires viewing window)**.
 - Variable speed fan.
 - Floor stands & stacking frames.
 - Routine spares kit.
 - Extraction fan (may alter achievable uniformity).
 - Stoving & curing upgrade for use with small volumes of volatile solvent or paint fumes (comprises over temperature protection, extraction fan and an explosion relief panel.
- **The stoving & curing option is not compatible with the viewing door or through door illumination options.

Options:

- Cable entry ports .
- Over temperature protection to DIN 12-880 class 2 (recommended to protect valuable contents & for unattended operation)*.
- A range of sophisticated digital control & multi segment programmers is available.
- Optional over temperature protection recommended for continuous operation & to protect valuable contents.
- Process timer.
- RS232/RS485 communications.
- Viewing window.

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	Volume (Liters)	Max. Power (W)	Weight (kg)	Power Supply
						Internal HxWxD(mm)	External HxWxD(mm)					
LHT4/30	400	±0.5	±5.0	50	10	300x300x305	570x860x550	2	30	1000	73	230V single phase
LHT4/60	400	±0.5	±5.0	-	16	400x400x405	670x930x670	2/3	60	1500	99	230V single phase
LHT4/120	400	±0.5	±5.0	-	20	645x455x405	920x1060x650	2/4	120	2250	179	230V single phase
LHT5/30	500	±0.5	±5.0	-	10	300x300x305	570x860x550	2	30	2000	73	230V single phase
LHT5/60	500	±0.5	±5.0	50	16	400x400x405	670x930x670	2/3	60	2250	99	230V single phase
LHT5/120	500	±0.5	±5.0	-	20	645x455x405	920x1060x650	2/4	120	3000	179	230V single phase or 3 phase
LHT6/30	600	±0.5	±5.0	70	10	300x300x305	570x860x550	2	30	2000	73	230V single phase
LHT6/60	600	±0.5	±5.0	-	10(+)	400x400x405	670x930x670	2/3	60	2250	99	230V single phase
LHT6/120	600	±0.5	±5.0	-	-	645x455x405	920x1060x650	2/4	120	3000	179	230V single phase or 3 phase

3 phase (uses 2 phases & neutral of 380/220V – 415/240V supply)

(+) Recovery to 500°C set -point



HT6/220

HT4/5/6-Series, HT Industrial High Temperature

Ideal for applications such as tempering, glass annealing, preheating and stress relieving these small scale industrial ovens are able to operate efficiently up to 600°C.

Features:

- 400°C, 500°C or 600°C maximum operating temperature.
- 28, 95 or 220 or 350 Liter capacity.
- 301 controller providing single ramp to set point or countdown process timing.
- Rugged well proven design.
- Excellent performance & reliability.
- Door locks easily operated whilst wearing gloves.
- Stainless steel liner.
- Steel section construction.
- Stainless steel mesh shelves.

Options:

- Over-temperature protection to DIN 12-880 class 2 (recommended to protect valuable contents & for unattended operation).
- Digital process timer.
- Programmable controller.
- Additional shelves.
- Stoving & curing kit to extract volatile fumes.
- Chart recorders & paper free digital acquisition (DAQ) devices.
- Viewing window.
- Fixed or castor mounted floor stands.
- Standard spares kit.
- Bespoke specifications are available for AMS 2750 (NADCAP).



HT6/350

Model	Max. Temp. (°C)	Temp. stability (± °C)	Heat-up time to Max. (mins)	Temp. uniformity (± °C)	Recovery time to Max. (mins)	Dimensions		Shelves Fitted/ accepted	Shelf loading Each/ total (kg)	Vol. (Liters)	Max. power (W)	Power Supply
						Internal HxWxD(mm)	External HxWxD(mm)					
HT4/28	400	±0.5	60	±5.0	10	305x305x305	880x675x885	2/2	10 20	28	1000	Single phase
HT4/95	400	±0.5	60	±5.0	10	455x455x455	1010x880x1120	3/4	15 30	94	3000	Single phase
HT4/220	400	±0.5	60	±5.0	10	610x610x610	1160x1030x1280	3/4	25 50	227	4500	Single phase
HT4/350	400	±0.5	-	±5.0	-	700x700x700	1665x1710x1200	3/4	25 50	343	-	Single phase or 3 phase
HT5/28	500	±0.5	60	±5.0	16	305x305x305	880x675x885	2/2	10 20	28	2500	Single phase
HT5/95	500	±0.5	60	±5.0	16	455x455x455	1010x880x1120	3/4	15 30	94	3000	Single phase
HT5/220	500	±0.5	60	±5.0	16	610x610x610	1160x1030x1280	3/4	25 50	227	4500	Single phase or 3 phase
HT5/350	500	±0.5	-	±5.0	-	700x700x700	1665x1710x1200	3/4	25 50	343	-	Single phase or 3 phase
HT6/28	600	±0.5	75	±5.0	20	305x305x305	880x675x885	2/2	10 20	28	2000	Single phase
HT6/95	600	±0.5	70	±5.0	20	455x455x455	1010x880x1120	3/4	15 30	94	4500	Single phase or 2 phase
HT6/220	600	±0.5	90	±5.0	20	610x610x610	1160x1030x1280	3/4	25 50	227	6000	Single phase or 3 phase
HT6/350	600	±0.5	-	±5.0	-	700x700x700	1665x1710x1200	3/4	25 50	343	9000	3 phase

Minimum operating temperature approximately ambient plus 10°C. Uniformity is measured in an empty chamber with vents closed, after a stabilization period. Shelf loadings are based on evenly distributed weight.

HTMA-Series, High Temperature Modified Atmosphere Ovens**HTMA 4/28 & HTMA 4/95****Standard features:**

- 400°C, 500°C or 600°C Operating temperatures.
- 28, 95 & 220 Liter capacities.
- Digital PID temperature control using 301 controller including over-temperature protection.
- Rear mounted fan & side air guides give horizontal 'airflow'.
- Manual gas control via needle valves & flow meters (nickel brass).
- Corrosion resistant, ferritic grade 430, stainless steel interior with perforated non-tip shelves & runners.
- Copper pipe-work with brass flow-meter & solenoid valves .
- Single side hinged door, with metal heat seal & rubber gas tight seal, closed using none slam lever switch.
- Suitable for continuous operation (see options*).
- Double skin construction for cool, safe, outer case.
- Hard wearing, zinc coated & staved epoxy polyester coated exterior.

Options:

- Automatic gas control (requires a 3508 Series programmable controller).
- Manual electronic gas control using 2x flow meters & solenoid valves .
- Stainless steel pipe-work with brass flow-meter & solenoid valves .
- Stainless steel pipe-work, flow-meter & solenoid valves.
- A range of sophisticated digital control and multisegment programmers are available.
- RS232 / RS485 communications.
- Fixed or castor mounted floor stands.

A range of gas tight high temperature ovens for use with inert atmospheres in a batch production environment.

Model	Max. Temp. (°C)	Heat-up time to Max. (mins)	Recovery time to Max. (mins)	Dimensions		Shelves Fitted/ Accepted	Volume (Liters)	Max. Power (W)	Weight (kg)	Power Supply
				Internal HxWxD(mm)	External HxWxD(mm)					
HTMA4/28	400	50	10	305x305x305	880x675x885	2	28	1000	73	230V single phase
HTMA4/95	400	75	16	455x455x455	1010x880x1120	3/4	95	3000	99	230V single phase
HTMA4/220	400	120	20	610x610x610	1160x1030x1280	3/4	220	3000	179	230V single phase
HTMA5/28	500	50	10	305x305x305	880x675x885	2	28	2000	73	230V single phase
HTMA5/95	500	75	16	455x455x455	1010x880x1120	3/4	95	3000	99	230V single phase
HTMA5/220	500	120	20	610x610x610	1160x1030x1280	3/4	220	4500	179	230V single phase or 3 phase
HTMA6/28	600	50	10	305x305x305	880x675x885	2	28	2000	73	230V single phase
HTMA6/95	600	75	16	455x455x455	1010x880x1120	3/4	95	4500	99	230V single phase
HTMA6/220	600	120	20	610x610x610	1160x1030x1280	3/4	220	6000	179	230V single phase or 3 phase

Uniformity is measured in an empty chamber with vents closed, after a stabilization period

* Nominal values based upon a representative sample of products