



## LARGE GENERAL PURPOSE INDUSTRIAL OVEN - LGP

**The LGP large general purpose ovens offer the greatest choice of options in size and maximum temperature. The range spans from 500 to more than 13,000 litres, with a temperature span from 425 °C to 600 °C.**

The LGP range is often customised in order to precisely meet the user's requirements.

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.



[Click to view video](#)

Product Video: LGP 2-1750

## STANDARD FEATURES

- | 600°C maximum operating temperatures
- | 500 to 13,820 litre chamber volumes
- | PID digital set and display using the 3216CC controller
- | Over-temperature protection
- | Large capacity, rugged well proven designs
- | Robust construction, for heavy duty cycles
- | Efficient air circulation and excellent temperature uniformity from heavy duty impellers
- | Corrosion resistant ferritic grade 430 stainless steel interior
- | Steel section & zinc coated, painted mild steel exterior
- | Single & double door models
- | Shelf runners on models up to 1000 litres (optional on models up to 5830 litres)
- | Low thermal mass insulation for high energy efficiency
- | Fully adjustable chamber ventilation
- | Ethernet communications

## 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
- | Bespoke specifications are available for AMS2750F (Nadcap) compliant applications
- | Access ports for cables & pipes
- | Exhaust proving switch
- | Manual or motorised vertically opening doors
- | Vertical airflow impellers
- | Explosion relief panels
- | Interior light (subject to temperature limitations)
- | Standard or heavy duty shelves
- | A wide range of sample loading & handling accessories can also be supplied

## TECHNICAL DETAILS (MODELS)

	<b>LGP 4/500</b>	<b>LGP 4/730</b>	<b>LGP 4/1000</b>
<b>Max temp (°C)</b>	425	425	425
<b>Min temp (°C)</b>	Ambient +35	Ambient +35	Ambient +35
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0 @250°C	±5.0 @250°C	±5.0 @250°C
<b>Heat-up time (mins)</b>	60	60	60
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	800 x 800 x 800	900 x 900 x 900	1000 x 1000 x 1000
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1450 x 1820 x 1520	1550 x 1920 x 1620	1650 x 2020 x 1720
<b>Doors</b>	Single door	Single door	Single door
<b>Shelves fitted / accepted</b>	0 / 4 (shelf runners supplied - shelves available at extra cost)	0 / 4 (shelf runners supplied - shelves available at extra cost)	0 / 4 (shelf runners supplied - shelves available at extra cost)
<b>Shelf loading each / total (kg)</b>	50 / 200	50 / 200	50 / 200
<b>Volume (litres)</b>	500	730	1000
<b>Weight (kg)</b>	--	--	--
<b>Max power (W)</b>	9000	12000	18000

	LGP 4/1500	LGP 4/1750	LGP 4/2160
<b>Max temp (°C)</b>	425	425	425
<b>Min temp (°C)</b>	Ambient +35	Ambient +35	Ambient +35
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0 @250°C	±5.0 @250°C	±5.0 @250°C
<b>Heat-up time (mins)</b>	60	60	60
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	1500 x 1000 x 1000	1200 x 1200 x 1200	1500 x 1200 x 1200
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	2150 x 2620 x 1720	1850 x 2820 x 1920	2150 x 2820 x 1920
<b>Doors</b>	Single door	Single door	Single door
<b>Shelves fitted / accepted</b>	0 / 7 (shelf runners and shelves available at extra cost)	0 / 5 (shelf runners and shelves available at extra cost)	0 / 7 (shelf runners and shelves available at extra cost)
<b>Shelf loading each / total (kg)</b>	50 / 350	50 / 250	50 / 350
<b>Volume (litres)</b>	1500	1750	2160
<b>Weight (kg)</b>	--	--	--
<b>Max power (W)</b>	21000	24000	27000

	LGP 6/500	LGP 6/730	LGP 6/1000
<b>Max temp (°C)</b>	625	625	625
<b>Min temp (°C)</b>	Ambient +35	Ambient +35	Ambient +35
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0 @250°C	±5.0 @250°C	±5.0 @250°C
<b>Heat-up time (mins)</b>	75	75	75
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	800 x 800 x 800	900 x 900 x 900	1000 x 1000 x 1000
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	1450 x 1820 x 1520	1550 x 1920 x 1620	1650 x 2020 x 1720
<b>Doors</b>	Single door	Single door	Single door
<b>Shelves fitted / accepted</b>	0 / 4 (shelf runners supplied - shelves available at extra cost)	0 / 4 (shelf runners supplied - shelves available at extra cost)	0 / 4 (shelf runners supplied - shelves available at extra cost)
<b>Shelf loading each / total (kg)</b>	50 / 200	50 / 200	50 / 200
<b>Volume (litres)</b>	500	730	1000
<b>Weight (kg)</b>	--	--	--
<b>Max power (W)</b>	13500	18000	24000

	LGP 6/1500	LGP 6/1750	LGP 6/2160
<b>Max temp (°C)</b>	625	625	625
<b>Min temp (°C)</b>	Ambient +35	Ambient +35	Ambient +35
<b>Temp stability (°C)</b>	±0.5	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±5.0 @250°C	±5.0 @250°C	±5.0 @250°C
<b>Heat-up time (mins)</b>	75	75	75
<b>Dimensions:</b>			
<b>Internal H x W x D (mm)</b>	1500 x 1000 x 1000	1200 x 1200 x 1200	1500 x 1200 x 1200
<b>Dimensions:</b>			
<b>External H x W x D (mm)</b>	2150 x 2620 x 1720	1850 x 2820 x 1920	2150 x 2820 x 1920
<b>Doors</b>	Single door	Single door	Single door
<b>Shelves fitted / accepted</b>	0 / 7 (shelf runners and shelves available at extra cost)	0 / 5 (shelf runners and shelves available at extra cost)	0 / 7 (shelf runners and shelves available at extra cost)
<b>Shelf loading each / total (kg)</b>	50 / 350	50 / 250	50 / 350
<b>Volume (litres)</b>	1500	1750	2160
<b>Weight (kg)</b>	--	--	--
<b>Max power (W)</b>	30000	36000	40000

#### Please note

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- Minimum operating temperature is approximately ambient +35°C
- Maximum power and heat up time based on a 240V supply
- The uniform volume is smaller than the total chamber volume

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