



## LGP – Large General Purpose Ovens

**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 13000 litres, with a temperature span from 250°C to 700°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 AMS2750E 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.



LGP 2/3370 with exhaust fan option

### Standard features

- 250°C, 425°C, 625°C or 700°C maximum operating temperatures
- PID digital set and display using the 3216CC controller
- 500 to 13820 litre chamber volumes
- 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 fast response & energy efficiency
- Fully adjustable chamber ventilation
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- **NEW** LGP 4/ and LGP 6/ models include independent element over-temperature protection



LGP 4/1000 with exhaust fan option

### Options (specify these at time of order)

- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 106–111)
- Bespoke models are available for AMS2750E (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



## Shelf runners and shelves information

Models 500, 730 and 1000 litres: supplied with 4 pairs of shelf runners as standard. Shelves are available at extra cost.

For the following models the shelf runners and shelves are available at additional cost:

Models 1500, 2160 and 3370 litres: available with 7 pairs of shelf runners.

Model 1750 litres: available with 5 pairs of shelf runners.

Model 5830 litres: available with 9 pairs of shelf runners.

Larger capacity models are not supplied with any shelf runners.

## Technical data

CGH	Max. temp. [°C]	Temp. stability [°C]	Temperature uniformity [°C]	Heat-up time [mins]	Dimensions: Internal H x W x D [mm]	Dimensions: External H x W x D [mm]	Doors	Shelf loading each / total [kg]	Volume [litres]	Max. power [W]
LGP 2/500	250	±0.5	±5.0 @250 °C	60	800 x 800 x 800	1300 x 1710 x 1350	Single door	50 / 200	500	9000
LGP 2/730	250	±0.5	±5.0 @250 °C	60	900 x 900 x 900	1400 x 1810 x 1450	Single door	50 / 200	730	9000
LGP 2/1000	250	±0.5	±5.0 @250 °C	60	1000 x 1000 x 1000	1500 x 1910 x 1550	Single door	50 / 200	1000	12000
LGP 2/1500	250	±0.5	±5.0 @250 °C	60	1500 x 1000 x 1000	2000 x 1910 x 1550	Single door	50 / 350	1500	13500
LGP 2/1750	250	±0.5	±5.0 @250 °C	60	1200 x 1200 x 1200	1700 x 2110 x 1750	Single door	50 / 250	1750	18000
LGP 2/2160	250	±0.5	±5.0 @250 °C	60	1500 x 1200 x 1200	2000 x 2110 x 1750	Single door	50 / 350	2160	18000
LGP 2/3370	250	±0.5	±5.0 @250 °C	60	1500 x 1500 x 1500	2000 x 3010 x 2050	Double door	50 / 350	3370	24000
LGP 2/5830	250	±0.5	±5.0 @250 °C	60	1800 x 1800 x 1800	2300 x 3310 x 2350	Double door	50 / 450	5830	35000
LGP 2/8000	250	±0.5	±5.0 @250 °C	60	2000 x 2000 x 2000	2500 x 3510 x 2550	Double door	-	8000	42000
LGP 2/13820	250	±0.5	±5.0 @250 °C	60	2400 x 2400 x 2400	2900 x 3910 x 2950	Double door	-	13820	60000
LGP 4/500	425	±0.5	±5.0 @250 °C	60	800 x 800 x 800	1450 x 1820 x 1520	Single door	50 / 200	500	9000
LGP 4/730	425	±0.5	±5.0 @250 °C	60	900 x 900 x 900	1550 x 1920 x 1620	Single door	50 / 200	730	12000
LGP 4/1000	425	±0.5	±5.0 @250 °C	60	1000 x 1000 x 1000	1650 x 2020 x 1720	Single door	50 / 200	1000	18000
LGP 4/1500	425	±0.5	±5.0 @250 °C	60	1500 x 1000 x 1000	2150 x 2620 x 1720	Single door	50 / 350	1500	21000
LGP 4/1750	425	±0.5	±5.0 @250 °C	60	1200 x 1200 x 1200	1850 x 2820 x 1920	Single door	50 / 250	1750	24000
LGP 4/2160	425	±0.5	±5.0 @250 °C	60	1500 x 1200 x 1200	2150 x 2820 x 1920	Single door	50 / 350	2160	27000
LGP 4/3370	425	±0.5	±5.0 @250 °C	60	1500 x 1500 x 1500	2150 x 3120 x 2220	Double door	50 / 350	3370	36000
LGP 4/5830	425	±0.5	±5.0 @250 °C	60	1800 x 1800 x 1800	2450 x 3420 x 2520	Double door	50 / 350	5830	48000
LGP 4/8000	425	±0.5	±5.0 @250 °C	60	2000 x 2000 x 2000	2650 x 3620 x 2720	Double door	50 / 450	8000	54000
LGP 6/500	625	±0.5	±5.0 @250 °C	75	800 x 800 x 800	1450 x 1820 x 1520	Single door	50 / 200	500	13500
LGP 6/730	625	±0.5	±5.0 @250 °C	75	900 x 900 x 900	1550 x 1920 x 1620	Single door	50 / 200	730	18000
LGP 6/1000	625	±0.5	±5.0 @250 °C	75	1000 x 1000 x 1000	1650 x 2020 x 1720	Single door	50 / 200	1000	24000
LGP 6/1500	625	±0.5	±5.0 @250 °C	75	1500 x 1000 x 1000	2150 x 2620 x 1720	Single door	50 / 350	1500	30000
LGP 6/1750	625	±0.5	±5.0 @250 °C	75	1200 x 1200 x 1200	1850 x 2820 x 1920	Single door	50 / 250	1750	36000
LGP6/2160	625	±0.5	±5.0 @250 °C	75	1500 x 1200 x 1200	2150 x 2820 x 1920	Single door	50 / 350	2160	40000
LGP 6/3370	625	±0.5	±5.0 @250 °C	75	1500 x 1500 x 1500	2150 x 3120 x 2220	Double door	50 / 350	3370	48000
LGP 6/5830	625	±0.5	±5.0 @250 °C	75	1800 x 1800 x 1800	2450 x 3420 x 2520	Double door	50 / 450	5830	72000
LGP 7/500	700	±0.5	±5.0 @250 °C	-	800 x 800 x 800	1450 x 1820 x 1520	Single door	50 / 200	500	18000
LGP 7/730	700	±0.5	±5.0 @250 °C	-	900 x 900 x 900	1550 x 1920 x 1620	Single door	50 / 200	730	21000
LGP 7/1000	700	±0.5	±5.0 @250 °C	-	1000 x 1000 x 1000	1650 x 2020 x 1720	Single door	50 / 200	1000	27000
LGP 7/1500	700	±0.5	±5.0 @250 °C	-	1500 x 1000 x 1000	2150 x 2620 x 1720	Single door	50 / 350	1500	33000

**i** Please note:

- Minimum operating temperature approximately ambient plus 35 °C
- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Maximum power and heat up time based on a 240 V supply

- Shelf loadings are based on evenly distributed weight
- External dimensions with door closed
- The uniform volume is smaller than the total chamber volume