

Large General Purpose Industrial Oven - LGP

General Information

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 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 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

- 250 °C, 425 °C, 625 °C or 700 °C maximum operating temperatures
- 500 to 13,820 litre chamber volumes
- PID digital set and display using the 3216CC controller
- 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

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
- Bespoke specifications are available for AMS2750 (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

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Technical Specifications

LGP 2/500

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	800 x 800 x 800
Dimensions: External H x W x D (mm)	1300 x 1710 x 1350
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied as standard - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	9000

LGP 2/730

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	730
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	900 x 900 x 900
Dimensions: External H x W x D (mm)	1400 x 1810 x 1450
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied as standard - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	10500

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LGP 2/1000

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	1000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1000 x 1000 x 1000
Dimensions: External H x W x D (mm)	1500 x 1910 x 1550
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied as standard - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	665
Max power (W)	12000

LGP 2/1500

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	1500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1000 x 1000
Dimensions: External H x W x D (mm)	2000 x 1910 x 1550
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	885
Max power (W)	13500

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LGP 2/1750

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	1750
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1200 x 1200 x 1200
Dimensions: External H x W x D (mm)	1700 x 2110 x 1750
Doors	Single door
Shelves fitted / accepted	0 / 5 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 250
Weight (kg)	--
Max power (W)	15800

LGP 2/2160

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	2160
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1200 x 1200
Dimensions: External H x W x D (mm)	2000 x 2110 x 1750
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	18000

Large General Purpose Industrial Oven - LGP

LGP 2/3370

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	3370
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1500 x 1500
Dimensions: External H x W x D (mm)	2000 x 3010 x 2050
Doors	Double door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	24000

LGP 2/5830

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	5830
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1800 x 1800 x 1800
Dimensions: External H x W x D (mm)	2300 x 3310 x 2350
Doors	Double door
Shelves fitted / accepted	0 / 9 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 450
Weight (kg)	--
Max power (W)	35000

Large General Purpose Industrial Oven - LGP

LGP 2/8000

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	8000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	2000 x 2000 x 2000
Dimensions: External H x W x D (mm)	2500 x 3510 x 2550
Doors	Double door
Shelves fitted / accepted	0 / 0
Shelf loading each / total (kg)	--
Weight (kg)	--
Max power (W)	42000

LGP 2/13820

Max temp (°C)	250
Min temp (°C)	Ambient +35
Volume (litres)	13820
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	2400 x 2400 x 2400
Dimensions: External H x W x D (mm)	2900 x 3910 x 2950
Doors	Double door
Shelves fitted / accepted	0 / 0
Shelf loading each / total (kg)	
Weight (kg)	--
Max power (W)	60000

Large General Purpose Industrial Oven - LGP

LGP 4/500

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

LGP 4/730

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	730
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	900 x 900 x 900
Dimensions: External H x W x D (mm)	1550 x 1920 x 1620
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied as standard - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	13500

Large General Purpose Industrial Oven - LGP

LGP 4/1000

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	1000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1000 x 1000 x 1000
Dimensions: External H x W x D (mm)	1650 x 2020 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied as standard - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	18000

LGP 4/1500

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	1500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1000 x 1000
Dimensions: External H x W x D (mm)	2150 x 2620 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	22500

Large General Purpose Industrial Oven - LGP

LGP 4/1750

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

LGP 4/2160

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	3370
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1200 x 1200
Dimensions: External H x W x D (mm)	2150 x 2820 x 1920
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	31500

Large General Purpose Industrial Oven - LGP

LGP 4/3370

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	3370
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1500 x 1500 x 1500
Dimensions: External H x W x D (mm)	2150 x 3120 x 2220
Doors	Double door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	42000

LGP 4/5830

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	5830
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	1800 x 1800 x 1800
Dimensions: External H x W x D (mm)	2450 x 3420 x 2520
Doors	Double door
Shelves fitted / accepted	0 / 9 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	48000

Large General Purpose Industrial Oven - LGP

LGP 4/8000

Max temp (°C)	425
Min temp (°C)	Ambient +35
Volume (litres)	8000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	60
Dimensions: Internal H x W x D (mm)	2000 x 2000 x 2000
Dimensions: External H x W x D (mm)	2650 x 3620 x 2720
Doors	Double door
Shelves fitted / accepted	0 / 0
Shelf loading each / total (kg)	50 / 450
Weight (kg)	--
Max power (W)	54000

LGP 6/500

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

Large General Purpose Industrial Oven - LGP

LGP 6/730

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

LGP 6/1000

Max temp (°C)	625
Min temp (°C)	Ambient +35
Volume (litres)	1000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	75
Dimensions: Internal H x W x D (mm)	1000 x 1000 x 1000
Dimensions: External H x W x D (mm)	1650 x 2020 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	24000

Large General Purpose Industrial Oven - LGP

LGP 6/1500

Max temp (°C)	625
Min temp (°C)	Ambient +35
Volume (litres)	1500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	75
Dimensions: Internal H x W x D (mm)	1500 x 1000 x 1000
Dimensions: External H x W x D (mm)	1650 x 2020 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	27000

LGP 6/1750

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

Large General Purpose Industrial Oven - LGP

LGP 6/2160

Max temp (°C)	625
Min temp (°C)	Ambient +35
Volume (litres)	1750
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	75
Dimensions: Internal H x W x D (mm)	1500 x 1200 x 1200
Dimensions: External H x W x D (mm)	2150 x 2820 x 1920
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	40500

LGP 6/3370

Max temp (°C)	625
Min temp (°C)	Ambient +35
Volume (litres)	3370
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	75
Dimensions: Internal H x W x D (mm)	1500 x 1500 x 1500
Dimensions: External H x W x D (mm)	2150 x 3120 x 2220
Doors	Double door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	48000

Large General Purpose Industrial Oven - LGP

LGP 6/5830

Max temp (°C)	625
Min temp (°C)	Ambient +35
Volume (litres)	5830
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	75
Dimensions: Internal H x W x D (mm)	1800 x 1800 x 1800
Dimensions: External H x W x D (mm)	2450 x 3420 x 2520
Doors	Single door
Shelves fitted / accepted	0 / 9 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 450
Weight (kg)	--
Max power (W)	72000

LGP 7/500

Max temp (°C)	700
Min temp (°C)	Ambient +35
Volume (litres)	500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	--
Dimensions: Internal H x W x D (mm)	800 x 800 x 800
Dimensions: External H x W x D (mm)	1450 x 1820 x 1520
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	18000

Large General Purpose Industrial Oven - LGP

LGP 7/730

Max temp (°C)	700
Min temp (°C)	Ambient +35
Volume (litres)	730
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	--
Dimensions: Internal H x W x D (mm)	900 x 900 x 900
Dimensions: External H x W x D (mm)	1550 x 1920 x 1620
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	24000

LGP 7/1000

Max temp (°C)	700
Min temp (°C)	Ambient +35
Volume (litres)	1000
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	--
Dimensions: Internal H x W x D (mm)	1000 x 1000 x 1000
Dimensions: External H x W x D (mm)	1650 x 2020 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 4 (shelf runners supplied - shelves available at extra cost)
Shelf loading each / total (kg)	50 / 200
Weight (kg)	--
Max power (W)	30000

Large General Purpose Industrial Oven - LGP

LGP 7/1500

Max temp (°C)	700
Min temp (°C)	Ambient +35
Volume (litres)	1500
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	--
Dimensions: Internal H x W x D (mm)	1500 x 1000 x 1000
Dimensions: External H x W x D (mm)	2150 x 2620 x 1720
Doors	Single door
Shelves fitted / accepted	0 / 7 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 350
Weight (kg)	--
Max power (W)	36000

LGP 7/1750

Max temp (°C)	700
Min temp (°C)	Ambient +35
Volume (litres)	1750
Temp stability (°C)	±0.5
Temp uniformity (°C)	±5.0 @250°C
Heat-up time (mins)	--
Dimensions: Internal H x W x D (mm)	1200 x 1200 x 1200
Dimensions: External H x W x D (mm)	1850 x 2820 x 1920
Doors	Single door
Shelves fitted / accepted	0 / 5 (shelf runners and shelves available at extra cost)
Shelf loading each / total (kg)	50 / 250
Weight (kg)	--
Max power (W)	48000

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