



GP – General Purpose Ovens

The GP general purpose 300 °C industrial ovens are supplied in three sizes and two configurations: vertical (A) and horizontal (B) airflow.

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 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.



GP 450A with 3216P1 programmer option and over-temperature protection, plus AMS2750E thermocouple connection loops

GP 330B with 3508P1 programmer and exhaust fan option

Standard features

- 300 °C maximum operating temperature
- Carbolite Gero 301 controller with single ramp to setpoint facility
- 430 grade ferritic stainless steel internal case
- Robust external construction from steel section & zinc coated mild steel panels
- Mineral insulated metal sheathed heating elements
- Adjustable chamber ventilation

NEW Heavy duty options

Model	Reinforced base	Heavy duty shelves	
	Max. weight [kg]	Max. quantity	Max. weight / shelf [kg]
GP 220A	150	3	50
GP 330A	200	4	50
GP 450A	250	5	50
GP 220B	150	3	50
GP 330B	225	3	75
GP 450B	225	3	75

Please note: Reinforced base, shelf runners and shelves supplied as a package

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)
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- Port for independent thermocouple
- Cable access ports
- Bespoke models are available for AMS2750E (Nadcap) compliant applications
- Additional shelves
- Door interlock activated by temperature alarm relay (3216, CC-T1, 3508 or nanodac) or program segment output (CC-T1, 3508 or nanodac)
- Stoving & curing for extraction of small volumes of volatile solvents (not compatible with viewing window option)
- Viewing window (not compatible with stoving & curing option)
- Interior light (not compatible with stoving & curing option)
- Air exhaust fan
- Moisture extraction option (comprising sealed seams and air exhaust fan)

Technical data

Model	Max. temp. [°C]	Temp. stability [°C]	Temp. uniformity [°C]	Heat-up time [mins]	Recovery time [mins]	Dimensions: Internal H x W x D [mm]	Dimensions: External H x W x D [mm]	Shelves fitted / accepted	Shelf loading each / total [kg]	Doors	Volume [litres]	Air changes / hr	Max. power [W]
GP 220A	300	±0.5	±5.0	75	24	610 x 610 x 610	1240 x 862 x 850 (Bench-top)	3 / 5	15 / 45	Single door	220	107*	3000
GP 330A	300	±0.5	±5.0	80	28	915 x 610 x 610	1545 x 862 x 850 (Floor-standing or optional stand)	4 / 8	15 / 60	Single door	330	76*	4500
GP 450A	300	±0.5	±5.0	75	30	1220 x 610 x 610	1850 x 862 x 850 (Floor-standing)	5 / 11	15 / 75	Single door	450	59*	6000
GP 220B	300	±0.5	±5.0	75	24	610 x 610 x 610	910 x 1190 x 850 (Bench-top)	3 / 5	15 / 45	Single door	220	107*	3000
GP 330B	300	±0.5	±5.0	80	30	610 x 915 x 610	910 x 1495 x 850 (Bench-top)	3 / 5	15 / 45	Double Door	330	76*	4500
GP 450B	300	±0.5	±5.0	75	35	610 x 1220 x 610	910 x 1800 x 850 (Bench-top)	3 / 5	20 / 60	Double Door	450	59*	6000

i Please note:

- Minimum operating temperature approximately ambient plus 30 °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
- Stoving and curing option may require increased maximum power
- Shelf loadings are based on evenly distributed weight
- External dimensions with door closed

- The uniform volume is smaller than the total chamber volume
- * When equipped with optional exhaust fan