



GENERAL PURPOSE INDUSTRIAL OVEN - GP

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

The industrial oven range also provides a foundation upon which a large variety 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 AMS2750F 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

- | 300°C maximum operating temperature
- | Carbolite 301 controller, with single ramp to set-point & process timer
- | Powerful vertical (A) or horizontal (B) airflow for optimum uniformity
- | Built to withstand the rigours of a production environment
- | Long lasting, polished 430 grade ferritic stainless steel internal case
- | Robust external construction from steel section & zinc coated mild steel panels
- | Mineral insulated metal sheathed heating elements
- | Low thermal mass insulation for high energy efficiency
- | Adjustable chamber ventilation

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
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | Access port for independent thermocouple
- | Cable entry ports
- | Bespoke specifications are available for AMS2750F (Nadcap) compliant applications
- | Additional shelves
- | Heavy duty reinforced base and shelves
- | Optional floor stand
- | Stoving & curing option for extraction of small volumes of volatile solvents

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EXAMPLES



GP220A



GP 330B, 330 litre model with
3508P1 programmer and exhaust
fan option



GP 450A with 3216P1
programmer option and
overtemperature protection, plus
AMS2750H thermocouple
connection loops

TECHNICAL DETAILS (MODELS)

| | GP220A | GP330A | GP450A |
|---|------------------|------------------|------------------|
| Max temp (°C) | 300 | 300 | 300 |
| Heat-up time (mins) | 75 | 80 | 75 |
| Recovery time (mins) | 24 | 28 | 30 |
| Temp stability (°C) | ±0.5 | ±0.5 | ±0.5 |
| Temp uniformity (°C) | ±5.0 | ±5.0 | ±5.0 |
| Dimensions: | | | |
| Internal H x W x D (mm) | 610 x 610 x 610 | 915 x 610 x 610 | 1220 x 610 x 610 |
| Dimensions: | | | |
| External H x W x D (mm) | 1240 x 862 x 850 | 1545 x 862 x 850 | 1850 x 862 x 850 |
| Shelves fitted / accepted | 3 / 5 | 4 / 8 | 5 / 11 |
| Shelf loading each / total (kg) | 15 / 45 | 15 / 60 | 15 / 75 |
| Optional heavy duty reinforced base max. weight (kg) | 150 | 200 | 250 |
| Optional heavy duty shelves max. quantity | 3 | 4 | 5 |
| Optional heavy duty shelves max. weight / shelf (kg) | 50 | 50 | 50 |
| Doors | Single door | Single door | Single door |
| Configuration | Bench-top | Floor-standing | Floor-standing |
| Volume (litres) | 220 | 330 | 450 |
| Air changes / hr (with optional exhaust fan) | 107 | 76 | 59 |
| Max power (W) | 3000 | 4500 | 6000 |

| | GP220B | GP330B | GP450B |
|---|------------------|------------------|------------------|
| Max temp (°C) | 300 | 300 | 300 |
| Heat-up time (mins) | 75 | 80 | 75 |
| Recovery time (mins) | 24 | 30 | 35 |
| Temp stability (°C) | ±0.5 | ±0.5 | ±0.5 |
| Temp uniformity (°C) | ±5.0 | ±5.0 | ±5.0 |
| Dimensions: | | | |
| Internal H x W x D (mm) | 610 x 610 x 610 | 610 x 915 x 610 | 610 x 1220 x 610 |
| Dimensions: | | | |
| External H x W x D (mm) | 910 x 1190 x 850 | 910 x 1495 x 850 | 910 x 1800 x 850 |
| Shelves fitted / accepted | 3 / 5 | 3 / 5 | 3 / 5 |
| Shelf loading each / total (kg) | 15 / 45 | 15 / 45 | 20 / 60 |
| Optional heavy duty reinforced base max. weight (kg) | 150 | 225 | 225 |
| Optional heavy duty shelves max. quantity | 3 | 3 | 3 |
| Optional heavy duty shelves max. weight / shelf (kg) | 50 | 75 | 75 |
| Doors | Single door | Double door | Double door |
| Configuration | Bench-top | Bench-top | Bench-top |
| Volume (litres) | 220 | 330 | 450 |
| Air changes / hr (with optional exhaust fan) | 107 | 76 | 59 |
| Max power (W) | 3000 | 4500 | 6000 |

Please note

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- Maximum power and heat up times based on a 240V supply
- The uniform volume is smaller than the total chamber volume
- Minimum operating temperature is approximately ambient +30°C

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