

## General Purpose Industrial Chamber Furnace - GPC

### General Information

The GPC general purpose chamber furnaces are large floor-standing models. Available at 1200 °C and 1300 °C with capacities ranging from 131 to 350 litres.

The following models have been renamed CWF: GPC 12/36, GPC 13/36, GPC 12/65 & GPC 13/65.



### Standard features

- 1200 °C or 1300 °C maximum operating temperature
- 131, 200, 300 or 350 litre chamber volumes
- Programmable 3216P1 controller
- Over-temperature protection
- Free radiating coiled wire elements on two sides and roof
- All models have under hearth heating
- Low thermal mass insulation for high energy efficiency
- Vertical lift door keeps heated surface away from the user
- Hard wearing refractory hearth plate resists damage & supports heavier loads
- Heating elements are easily serviced

### 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
- A range of metallic retorts to work with modified atmospheres up to 1150 °C
- AMS 2750E Nadcap compatible models are available for aerospace applications
- Various loading and unloading management options can be supplied

### Technical Specifications

#### GPC 12/131B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1200                      |
| Volume (litres)                                      | 131                       |
| Max continuous operating temp (°C)                   | 1100                      |
| Heat-up time (mins)                                  | 150                       |
| Dimensions:<br>Internal H x W x D (mm)               | 350 x 500 x 750           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 1860 x 1260 x 1230 (1860) |
| Max power (W)  | 24000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 400                       |

## General Purpose Industrial Chamber Furnace - GPC

### GPC 12/200B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1200                      |
| Volume (litres)                                      | 200                       |
| Max continuous operating temp (°C)                   | 1100                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 400 x 600 x 900           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 1930 x 1360 x 1380 (1930) |
| Max power (W)  | 30000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 518                       |

### GPC 12/300B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1200                      |
| Volume (litres)                                      | 300                       |
| Max continuous operating temp (°C)                   | 1100                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 550 x 600 x 900           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 2080 x 1360 x 1380 (2080) |
| Max power (W)  | 36000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 600                       |

### GPC 12/350B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1200                      |
| Volume (litres)                                      | 350                       |
| Max continuous operating temp (°C)                   | 1100                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 550 x 600 x 1050          |
| Dimensions: External H x W x D<br>(mm) H (door open) | 2080 x 1360 x 1530 (2080) |
| Max power (W)  | 39000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 650                       |

## General Purpose Industrial Chamber Furnace - GPC

### GPC 13/131B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1300                      |
| Volume (litres)                                      | 131                       |
| Max continuous operating temp (°C)                   | 1200                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 350 x 500 x 750           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 1860 x 1260 x 1280 (1860) |
| Max power (W)  | 24000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 400                       |

### GPC 13/200B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1300                      |
| Volume (litres)                                      | 200                       |
| Max continuous operating temp (°C)                   | 1200                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 400 x 600 x 900           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 1930 x 1360 x 1380 (1930) |
| Max power (W)  | 30000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 518                       |

### GPC 13/300B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1300                      |
| Volume (litres)                                      | 300                       |
| Max continuous operating temp (°C)                   | 1200                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 550 x 600 x 900           |
| Dimensions: External H x W x D<br>(mm) H (door open) | 2080 x 1360 x 1380 (2080) |
| Max power (W)  | 36000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 600                       |

## General Purpose Industrial Chamber Furnace - GPC

### GPC 13/350B

|  |                           |
|--|---------------------------|
| Max temp (°C)  | 1300                      |
| Volume (litres)                                      | 350                       |
| Max continuous operating temp (°C)                   | 1200                      |
| Heat-up time (mins)                                  | --                        |
| Dimensions:<br>Internal H x W x D (mm)               | 550 x 600 x 1050          |
| Dimensions: External H x W x D<br>(mm) H (door open) | 2080 x 1360 x 1530 (2080) |
| Max power (W)  | 39000                     |
| Thermocouple type                                    | R                         |
| Weight (kg)  | 650                       |

#### Please note:

- Heat up rate is measured to 100°C below maximum, using an empty chamber
- Holding power is measured at continuous operating temperature