PN – Natural Convection Ovens

The Peak range 300 °C laboratory ovens are available in both PN natural convection and in the PF fan convection models. All PN models are bench mounted.

In the PN ovens air circulation depends upon natural convection. The resulting slow airflow is preferable, for example, for processes involving powders which may be disturbed by fan convection or where there is a risk of cross contamination between samples.
The reduced complexity makes natural convection a less expensive option.

PN 60 with 301 controller option

Standard features

- 300 °C maximum operating temperature
- R38 PID controller (see below for other controller options)
- Economical natural convection models
- Chemically resistant stainless steel liner
- Two nickel-chrome plated wire shelves
- Lever latch door & airtight silicone seal
- Compliant with safety standard BS EN 61010-2-010:2003

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)
- Access port for independent thermocouple
- Accessory shelves & runners
- Cable access ports
- Viewing window
- Interior light
- Stacking frame
- Lockable door
- Door interlock activated by temperature alarm relay (3216, CC-T1, 3508 or nanodac) or program segment output (CC-T1, 3508 or nanodac)
- Door switch to isolate elements
- Floor stands & wheeled trolleys
- Routine spares kit

NEW Heavy duty options

Model	Reinforced base	Heavy duty shelves	
	Max. weight [kg]	Max. quantity	Max. weight / shelf [kg]
PN 30	40	2	20
PN 60	60	3	20
PN 120	80	3	25
PN 200	100	4	25

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

Technical data

CGH Model	Max. temp. [°C]	Temp. stability [°C]	Temperature 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]	Volume [litres]	Max. power [W]	Holding power [W]	Weight [kg]
PN 30	300	±0.5	±7.0 @ 300 °C	52	8.5	255 x 330 x 320	470 x 665 x 470	2 / 3	10 / 20	27	750	300	37
PN 60	300	±0.5	±7.0 @ 300 °C	52	8.5	350 x 392 x 420	570 x 765 x 570	2 / 5	10 / 30	57	1000	480	55
PN 120	300	±0.5	±7.0 @ 300 °C	52	8.5	450 x 492 x 520	670 x 865 x 670	2 / 9	10 / 40	115	1500	720	74
PN 200	300	±0.5	±7.0 @ 300 °C	58	10	700 x 592 x 520	920 x 965 x 670	2 / 15	10 / 50	215	2250	1160	96

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

up to 300°C

0 1000 2000 3000 [°C]

PF – Fan Convection Ovens

The Peak range 300 °C laboratory ovens are available as both PF fan convection and PN natural convection models.

Fan convection provides greater temperature uniformity and faster recovery rates than natural convection.

PF 60 with 301 controller and optional exhaust fan and over-temperature control

Standard features

- 300 °C (PF 30 to PF 200) or 250 °C (PF 400, PF 800) maximum operating temperatures
- R38 PID controller (see below for other controller options)
- 28 to 910 litre chamber volumes
- Fan convection for rapid heating & recovery & excellent uniformity
- Chemically resistant stainless steel liner
- Two nickel-chrome plated wire shelves (The PF 400 is supplied with 3 wire shelves, the PF 800 with 3 perforated stainless steel shelves)
- Lever latch door & airtight silicone seal
- Compliant with safety standard BS EN 61010-2-010:2003

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)
- Access port for independent thermocouple
- Cable entry port
- Variable speed fan control
- 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)
- Lockable door
- Door interlock activated by temperature alarm relay (3216, CC-T1, 3508 or nanodac) or program segment output (CC-T1, 3508 or nanodac)
- Door switch to isolate elements and fan

NEW Heavy duty options

Model	Reinforced base	Heavy duty shelves	
	Max. weight [kg]	Max. quantity	Max. weight / shelf [kg]
PF 30	40	2	20
PF 60	60	3	20
PF 120	80	3	25
PF 200	100	4	25
PF 400	150	5	25
PF 800	225	5	75

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

Technical data

CG H 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]	Volume [litres]	Air changes / hr	Max. power [W]	Holding power [W]	Weight [kg]
PF 30	300	±0.2	±5.0 @ 300°C	40	4	300 x 290 x 320	470 x 665 x 470 (Bench-top)	2 / 3	10 / 20	28	50 / 312*	1000	560	37
PF 60	300	±0.2	±5.0 @ 300°C	36	4	400 x 390 x 420	570 x 765 x 570 (Bench-top)	2 / 5	10 / 30	66	21 / 137*	1500	775	55
PF 120	300	±0.2	±5.0 @ 300°C	35	4	500 x 490 x 520	670 x 865 x 670 (Bench-top)	2 / 9	10 / 40	127	11 / 72*	2000	900	74
PF 200	300	±0.2	±5.0 @ 300°C	42	5	750 x 590 x 520	920 x 965 x 670 (Bench-top)	2 / 15	10 / 50	230	6 / 40*	2700	1180	96
PF 400	250	±0.2	±5.0 @ 250°C	85	25	1500 x 605 x 510	1835 x 1025 x 1100 (Floor-standing)	3 / 14	10 / 75	460	66*	6000	2200	200
PF 800	250	±0.2	±5.0 @ 250°C	100	30	1500 x 1200 x 510	1835 x 1615 x 1100 (Floor-standing)	3 / 7	10 / 100	910	33*	9000	3500	280

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

* When equipped with optional exhaust fan