

## Fan Convection Laboratory Oven - PF

### General Information

Laboratory ovens of the Peak series 300°C 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.

### Standard features

- 300°C (PF 30 to PF 200) or 250°C (PF 400, PF 800) maximum operating temperatures
- 28 to 910 litre chamber volumes
- Equipped with the R38 digital PID temperature controller
- 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)

- 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
- Access port for independent thermocouple
- Accessory shelves & runners
- Heavy duty reinforced base and shelves
- Cable entry ports
- Variable speed fan control
- Stoving & curing options 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)
- Stacking frame to enable units to be stacked one upon another
- Lockable door
- Door switch to isolate elements and fan
- Fixed or castor mounted floor stands
- Low voltage options for use below 220 V
- Routine spares kit

### Technical Specifications

## Fan Convection Laboratory Oven - PF

### PF30

Max temp (°C)	300
Min temp (°C)	Ambient +30
Volume (litres)	28
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 300°C
Heat-up time (mins)	40
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	300 x 290 x 320
Dimensions: External H x W x D (mm)	470 x 665 x 470
Shelves fitted / accepted	2 / 3
Shelf loading each / total (kg)	10 / 20
Optional heavy duty reinforced base max. weight (kg)	40
Optional heavy duty shelves max. quantity	2
Optional heavy duty shelves max. weight / shelf (kg)	20
Configuration	Bench-top
Air changes / hr	50 / 360*
Max power (W)	1000
Holding power (W)	560
Weight (kg)	30

### PF60

Max temp (°C)	300
Min temp (°C)	Ambient +30
Volume (litres)	66
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 300°C
Heat-up time (mins)	36
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	400 x 390 x 420
Dimensions: External H x W x D (mm)	570 x 765 x 570
Shelves fitted / accepted	2 / 5
Shelf loading each / total (kg)	10 / 30
Optional heavy duty reinforced base max. weight (kg)	60
Optional heavy duty shelves max.	3

## Fan Convection Laboratory Oven - PF

quantity

Optional heavy duty shelves max. weight / shelf (kg)	20
Configuration	Bench-top
Air changes / hr	21 / 153*
Max power (W)	1500
Holding power (W)	775
Weight (kg)	45

### PF120

Max temp (°C)	300
Min temp (°C)	Ambient +30
Volume (litres)	127
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 300°C
Heat-up time (mins)	35
Recovery time (mins)	4
Dimensions: Internal H x W x D (mm)	500 x 490 x 520
Dimensions: External H x W x D (mm)	670 x 865 x 670
Shelves fitted / accepted	2 / 9
Shelf loading each / total (kg)	10 / 40
Optional heavy duty reinforced base max. weight (kg)	80
Optional heavy duty shelves max. quantity	3
Optional heavy duty shelves max. weight / shelf (kg)	25
Configuration	Bench-top
Air changes / hr	11 / 79*
Max power (W)	2000
Holding power (W)	900
Weight (kg)	60

## Fan Convection Laboratory Oven - PF

### PF200

Max temp (°C)	300
Min temp (°C)	Ambient +30
Volume (litres)	230
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 300°C
Heat-up time (mins)	42
Recovery time (mins)	5
Dimensions: Internal H x W x D (mm)	750 x 590 x 520
Dimensions: External H x W x D (mm)	920 x 965 x 670
Shelves fitted / accepted	2 / 15
Shelf loading each / total (kg)	10 / 50
Optional heavy duty reinforced base max. weight (kg)	100
Optional heavy duty shelves max. quantity	4
Optional heavy duty shelves max. weight / shelf (kg)	25
Configuration	Bench-top
Air changes / hr	6 / 44*
Max power (W)	2700
Holding power (W)	1180
Weight (kg)	75

### PF400

Max temp (°C)	250
Min temp (°C)	Ambient +30
Volume (litres)	460
Temp stability (°C)	±0.2
Temp uniformity (°C)	±5.0 @ 250°C
Heat-up time (mins)	85
Recovery time (mins)	25
Dimensions: Internal H x W x D (mm)	1500 x 605 x 510
Dimensions: External H x W x D (mm)	1835 x 1025 x 1100
Shelves fitted / accepted	3 / 14
Shelf loading each / total (kg)	10 / 75
Optional heavy duty reinforced base max. weight (kg)	150
Optional heavy duty shelves max.	5

## Fan Convection Laboratory Oven - PF

quantity

Optional heavy duty shelves max. 25

weight / shelf (kg)

Configuration Floor-standing

Air changes / hr 30

Max power (W) 6000

Holding power (W) 2200

Weight (kg) 200

### PF800

Max temp (°C) 250

Min temp (°C) Ambient +30

Volume (litres) 910

Temp stability (°C) ±0.2

Temp uniformity (°C) ±5.0 @ 250°C

Heat-up time (mins) 100

Recovery time (mins) 30

Dimensions: 1500 x 1200 x 510

Internal H x W x D (mm)

Dimensions: 1835 x 1615 x 1100

External H x W x D (mm)

Shelves fitted / accepted 3 / 7

Shelf loading each / total (kg) 10 / 100

Optional heavy duty reinforced base 225

max. weight (kg)

Optional heavy duty shelves max. 5

quantity

Optional heavy duty shelves max. 75

weight / shelf (kg)

Configuration Floor-standing

Air changes / hr 15

Max power (W) 9000

Holding power (W) 3500

Weight (kg) 280

### Please note:

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- The uniform volume is smaller than the total chamber volume
- Maximum power and heat up times based on a 240V supply
- Stoving and curing option may require increased maximum power
- \* When equipped with optional exhaust fan