

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. weight / shelf (kg)	25
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: Internal H x W x D (mm)	1500 x 1200 x 510
Dimensions: External H x W x D (mm)	1835 x 1615 x 1100
Shelves fitted / accepted	3 / 7
Shelf loading each / total (kg)	10 / 100
Optional heavy duty reinforced base max. weight (kg)	225
Optional heavy duty shelves max. quantity	5
Optional heavy duty shelves max. weight / shelf (kg)	75
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