

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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.