



## FAN CONVECTION LABORATORY OVEN - PF

**The PF oven range comprise four sizes of bench mounted units with maximum operating temperatures of 300°C. Fan convection provides greater temperature uniformity and faster recovery rates than natural convection.**

## STANDARD FEATURES

- | 300°C maximum operating temperatures
- | 28 to 230 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
- | 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, multisegment programmers and data loggers with digital communication options is available - more information about controllers
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | 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

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# EXAMPLES



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



PF 200

## TECHNICAL DETAILS (MODELS)

	<b>PF30</b>	<b>PF60</b>
<b>Max temp (°C)</b>	300	300
<b>Min temp (°C)</b>	Ambient +30	Ambient +30
<b>Temp stability (°C)</b>	±0.2	±0.2
<b>Temp uniformity (°C)</b>	±5.0 @ 300°C	±5.0 @ 300°C
<b>Heat-up time (mins)</b>	40	36
<b>Recovery time (mins)</b>	4	4
<b>Dimensions: Internal H x W x D (mm)</b>	300 x 290 x 320	400 x 390 x 420
<b>Dimensions: External H x W x D (mm)</b>	470 x 665 x 470	570 x 765 x 570
<b>Shelves fitted / accepted</b>	2 / 4	2 / 6
<b>Shelf loading each / total (kg)</b>	10 / 20	10 / 30
<b>Optional heavy duty reinforced base max. weight (kg)</b>	40	60
<b>Optional heavy duty shelves max. quantity</b>	2	3
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	20	20
<b>Configuration</b>	Bench-top	Bench-top
<b>Volume (litres)</b>	28	66
<b>Air changes / hr</b>	50 / 360*	21 / 153*
<b>Max power (W)</b>	1000	1500
<b>Holding power (W)</b>	560	775
<b>Weight (kg)</b>	37	55

	PF120	PF200
<b>Max temp (°C)</b>	300	300
<b>Min temp (°C)</b>	Ambient +30	Ambient +30
<b>Temp stability (°C)</b>	±0.2	±0.2
<b>Temp uniformity (°C)</b>	±5.0 @ 300°C	±5.0 @ 300°C
<b>Heat-up time (mins)</b>	35	42
<b>Recovery time (mins)</b>	4	5
<b>Dimensions: Internal H x W x D (mm)</b>	500 x 490 x 520	750 x 590 x 520
<b>Dimensions: External H x W x D (mm)</b>	670 x 865 x 670	920 x 965 x 670
<b>Shelves fitted / accepted</b>	2 / 10	2 / 16
<b>Shelf loading each / total (kg)</b>	10 / 40	10 / 50
<b>Optional heavy duty reinforced base max. weight (kg)</b>	80	100
<b>Optional heavy duty shelves max. quantity</b>	3	4
<b>Optional heavy duty shelves max. weight / shelf (kg)</b>	25	25
<b>Configuration</b>	Bench-top	Bench-top
<b>Volume (litres)</b>	127	230
<b>Air changes / hr</b>	11 / 79*	6 / 44*
<b>Max power (W)</b>	2000	2700
<b>Holding power (W)</b>	900	1180
<b>Weight (kg)</b>	74	96

#### 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

[www.carbolite.com/pf](http://www.carbolite.com/pf)