

PF-Series, 300°C Ovens



This modern range of ovens provides a combination of excellent performance & reliability. Increased power and low thermal mass encased fibre insulation ensure both fast heat up times & reduced recovery times. Reduced holding power once at set temp., together with the insulation, makes the range economical & outer case temperatures have been significantly reduced. Both gravity & forced air circulation models are available with a wide choice of control options allowing the most critical performance criteria to be met. Where processes involve the liberation of flammable VAPORS, a stoving & curing option is available. Also, where processes involve large amounts of water, a moisture extraction option is available.

Features: The outer cases are fabricated from corrosion resistant zinc coated mild steel & finished in two tone hard wearing stoved epoxy/polyester coating. The inner case is constructed from polished stainless steel. All units are provided with non-tilt bright nickel wire plated shelves with multi-position settings for convenient loading & unloading.

Adjustable air ventilation

The chamber ventilation and exhaust vent are easily adjustable from the front control panel, on all bench top models.

Digital temperature control

The control module is able to house many variations of digital instrumentation with simultaneous display of measured and set temperature. Microprocessor based PID controllers are fitted as standard.

Economy and efficiency

Insulation around the oven chamber utilizes totally encased fibre material. This material has a very low thermal mass and thermal conductivity, ensuring very efficient insulation. This also ensures reduced holding power, making the units economical to operate once set temperature has been reached.

Door action

A flush fitting door latch with a concealed mechanism is both simple to use & provides a handle when unlatched. The lever action ensures gentle closure. The door seal design includes a newly formulated silicone compound, providing longer life & durability at maximum temp. The design also allows convenient replacement if necessary.

Control panel

The side mounted control panel avoids damage from accidental spillage.

Safety standards

All units meet the relevant European health and safety at work legislation & the performance criteria of BS 2648 & DIN 50-011. They are manufactured to comply with BS EN 61010: safety standard & also the low voltage & EMC European Directives.

Options:

- Range of over temp. protection systems in accordance with DIN12-880 Part 2.
- Stoving & curing option available for processes involving liberation of flammable vapors.
- Timers: Process timers-manual or automatic. Mechanical or electronic time switches.
- Top access port for independent probe.
- Lockable door latch.
- Exhaust fan *
- Variable speed fan *
- Inert gas connection *
- Flow meter & needle valve.
- Viewing window in door *
- Interior light.
- Air inlet filter.
- Cable entry port *
- Door switch.
- Stands & trolleys.
- Chart recorders.

Model	PF30	PF60	PF120	PF200
Max. Temp (°C)	300	300	300	300
Chamber Dimensions (mm)	(H) 300 (W) 292 (D) 320	400 392 420	500 492 520	750 592 520
Outside Dimensions (mm)	(H) 470 (W) 665 (D) 470	570 765 570	670 865 670	920 965 670
Chamber Capacity (Liters)	28	66	128	230
Weight (kg)	30	45	60	75
Shelves				
Number Supplied	2	2	2	2
Max. Possible	3	5	9	15
Max. Dist load/shelf kg	10	10	10	10
Max load kg	20	30	40	50
Performance				
Power Rating at 240V (watts)	1000	1500	2000	2700
Holding Power* at Max. temp. (watts)	350	600	800	1250
Temp. Uniformity* (at Max. temp. as a%)	±1.0	±1.0	±1.0	±1.0
Temp. Stability on/off control (°C)	±1.0	±1.0	±1.0	±1.0
Temp. Stability PID control (°C)	±2.0	±2.0	±2.0	±2.0
Heat up Times* 100°C (Mins)	4.5	4.5	4.5	5.5
200°C	12	12	12	14
240V 300°C	25	25	25	30
Recovery Times* 100°C (Mins)	1	1	1	1.5
200°C	2.5	2.5	2.5	3
Door Open 60sec 300°C 240V	4	4	4	5
Air Exchanges vol (l/h) @ 100°C	1400	1400	1400	1400
Air Exchanges	50	21	11	6

* These options may affect Chamber Uniformity

Note: A uniformity of ±1%=±1°C at 100°C

*With vents closed.