



## NATURAL CONVECTION LABORATORY OVEN - PN

**The PN natural convection oven is a bench mounted laboratory oven capable of temperatures up to 300°C.**

In the PN ovens air circulation depends upon natural convection. The resulting slow airflow is preferable, for example, for processes involving powders which may be disturbed by fan convection or where there is a risk of cross contamination between samples.

## STANDARD FEATURES

- | Economical natural convection models
- | 300°C maximum operating temperature
- | Equipped with the R38 digital PID temperature controller
- | 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
- | Viewing window
- | Interior light
- | Stacking frame
- | Lockable door
- | Door switch to isolate elements
- | Floor stands & wheeled trolleys
- | Routine spares kit

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## EXAMPLES



PN 60 with 301 controller option



PN 30 with Moisture Extraction Option (MEO)

## TECHNICAL DETAILS (MODELS)

	PN30	PN60
Max temp (°C)	300	300
Min temp (°C)	Ambient +30	Ambient +30
Temp stability (°C)	±0.5	±0.5
Temp uniformity (°C)	±7.0 @ 300°C	±7.0 @ 300°C
Heat-up time (mins)	52	52
Recovery time (mins)	8.5	8.5
Dimensions: Internal H x W x D (mm)	255 x 330 x 320	350 x 392 x 420
Dimensions: External H x W x D (mm)	470 x 665 x 470	570 x 765 x 570
Shelves fitted / accepted	2 / 3	2 / 5
Shelf loading each / total (kg)	10 / 20	10 / 30
Optional heavy duty reinforced base max. weight (kg)	40	60
Optional heavy duty shelves max. quantity	2	3
Optional heavy duty shelves max. weight / shelf (kg)	20	20
Volume (litres)	27	57
Max power (W)	750	1000
Holding power (W)	300	480
Weight (kg)	37	55
Power supply	220V - 240V, 50-60Hz, single phase	220V - 240V, 50-60Hz, single phase

	PN120	PN200
Max temp (°C)	300	300
Min temp (°C)	Ambient +30	Ambient +30
Temp stability (°C)	±0.5	±0.5
Temp uniformity (°C)	±7.0 @ 300°C	±7.0 @ 300°C
Heat-up time (mins)	52	58
Recovery time (mins)	8.5	10
Dimensions: Internal H x W x D (mm)	450 x 492 x 520	700 x 592 x 520
Dimensions: External H x W x D (mm)	670 x 865 x 670	920 x 965 x 670
Shelves fitted / accepted	2 / 9	2 / 15
Shelf loading each / total (kg)	10 / 40	10 / 50
Optional heavy duty reinforced base max. weight (kg)	80	100
Optional heavy duty shelves max. quantity	3	4
Optional heavy duty shelves max. weight / shelf (kg)	25	25
Volume (litres)	115	215
Max power (W)	1500	2250
Holding power (W)	720	1160
Weight (kg)	74	96
Power supply	220V - 240V, 50-60Hz, single phase	220V - 240V, 50-60Hz, single phase

**Please note**

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- Maximum power and heat up times based on a 240V supply
- The uniform volume is smaller than the total chamber volume

[www.carbolite-gero.com/pn](http://www.carbolite-gero.com/pn)