

# NATURAL CONVECTION LABORATORY OVEN - PN



PN 60 with 301 controller option

**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

### NATURAL CONVECTION LABORATORY OVEN - PN

## EXAMPLES



PN 60 with 301 controller option



PN 30 with Moisture Extraction Option (MEO)

## TECHNICAL DETAILS (MODELS)

	<b>PN30</b>	<b>PN60</b>
<b>Max temp (°C)</b>	300	300
<b>Min temp (°C)</b>	Ambient +30	Ambient +30
<b>Temp stability (°C)</b>	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±7.0 @ 300°C	±7.0 @ 300°C
<b>Heat-up time (mins)</b>	52	52
<b>Recovery time (mins)</b>	8.5	8.5
<b>Dimensions: Internal H x W x D (mm)</b>	255 x 330 x 320	350 x 392 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 / 3	2 / 5
<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>Volume (litres)</b>	27	57
<b>Max power (W)</b>	750	1000
<b>Holding power (W)</b>	300	480
<b>Weight (kg)</b>	37	55
<b>Power supply</b>	220V - 240V, 50-60Hz, single phase	220V - 240V, 50-60Hz, single phase

	<b>PN120</b>	<b>PN200</b>
<b>Max temp (°C)</b>	300	300
<b>Min temp (°C)</b>	Ambient +30	Ambient +30
<b>Temp stability (°C)</b>	±0.5	±0.5
<b>Temp uniformity (°C)</b>	±7.0 @ 300°C	±7.0 @ 300°C
<b>Heat-up time (mins)</b>	52	58
<b>Recovery time (mins)</b>	8.5	10
<b>Dimensions: Internal H x W x D (mm)</b>	450 x 492 x 520	700 x 592 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 / 9	2 / 15
<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>Volume (litres)</b>	115	215
<b>Max power (W)</b>	1500	2250
<b>Holding power (W)</b>	720	1160
<b>Weight (kg)</b>	74	96
<b>Power supply</b>	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)