

Genlab Heavy Duty Ovens



Model Shown - HDO/45/250/NPCR



Model Shown - HDO/20

The Genlab range of Heavy Duty Ovens (HDO) suit most industrial applications for the controlled warming and drying of products. Eleven standard size ovens are available, or bespoke units can be manufactured for a variety of applications that take into consideration all factors such as load, temperature and location. Built around a heavy duty panelled framework, we can offer increased load capability in this range.

A range of custom built shelves and bespoke trolley and racking systems are available to suit all units and applications. Larger units also available upon request.

Features

- 11 sizes 1,000 to 20,000 litre capacity
- Temperature range 50°C to 150°C
- Flat sheet steel floor with chamfered edges for easy access / loading
- Dual door with heaving duty 2 point locking mechanism
- Internal safety release lock
- Manual overheat reset
- High velocity fan assisted circulation
- Excellent stability <0.8 °C
- Low chamber uniformity

Options

- 250 °C continuous operation (insulated floor only)
- Stainless steel chamber
- Profile / cascade controllers
- Process recorders with ethernet and USB output
- Count down timers
- Explosion relief panels
- Heavy duty shelving / trolleys
- Access ports (25, 50, 75 or 100mm)
- Traceable calibration to national standards
- Temperature uniformity surveys
- Extractor units/bifurcated fans

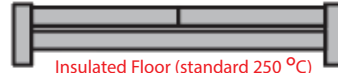


Design

Genlab HDO units are constructed from a powder coated heavy duty framework which is fitted with powder coated panels and have a minimum of 65mm high density insulation. The interior chamber is made from mild steel coated with aluminium, with stainless steel chambers available as an option. All units have fan circulation in the top of the oven, however, exterior designs can be changed for rear mounted circulation if preferred.



Standard Floor - (standard 150 °C)
Door closes against floor with brushes



Insulated Floor (standard 250 °C)
Oven floor raised 50mm with reinforced insulated base



Insulated Track Floor (optional extra TR)
Insulation on base floor with inverted tracks for trolleys

Heating

Units are heated by Incoloy sheathed elements positioned in the roof of the oven, and have high speed fans for high velocity air circulation. Heated air is forced down internal side walls of the oven for optimum uniformity conditions.

Controls

An external control panel is mounted on the right hand side of the oven (left upon request). They are populated with market leading controllers or recorders from Eurotherm and have premium switchgear for longevity and reliable operation. Each oven has an independent overheat protection and fan motor protection, both requiring manual reset to ensure safe operation.



Sizes and Specifications

Genlab Reference Number	Capacity (litres)	Internal Dims (H x W x D cms)	External Dims (H x W x D cms)	Wattage (KW)	Voltage	Fans (No x size)	Weight (kg)
Flat sheet floor (150 °C)							
HDO/10	1000	100 x 100 x 100	152 x 175 x 128	9	415	1 x 0.55	700
HDO/15	1500	150 x 100 x 100	202 x 175 x 128	12	415	1 x 0.55	750
HDO/20	2000	200 x 100 x 100	252 x 175 x 128	12	415	2 x 0.55	850
HDO/25	2500	150 x 140 x 120	202 x 215 x 148	15	415	2 x 0.55	950
HDO/30	3000	150 x 130 x 150	202 x 205 x 178	18	415	2 x 0.55	1150
HDO/45	4500	180 x 160 x 155	232 x 235 x 183	18	415	2 x 1.5	1300
HDO/60	6000	200 x 200 x 150	252 x 275 x 178	24	415	4 x 0.55	1450
HDO/80	8000	200 x 200 x 200	252 x 275 x 228	30	415	4 x 0.55	1550
HDO/100	10000	250 x 200 x 200	302 x 275 x 228	36	415	4 x 1.5	1600
HDO/150	15000	250 x 300 x 200	302 x 375 x 228	48	415	6 x 1.5	1900
HDO/200	20000	250 x 300 x 265	302 x 375 x 293	60	415	6 x 1.5	2200
Insulated floor (250 °C)							
HDO/10/250	1000	100 x 100 x 100	168 x 175 x 128	9	415	1 x 0.55	750
HDO/15/250	1500	150 x 100 x 100	218 x 175 x 128	12	415	1 x 0.55	800
HDO/20/250	2000	200 x 100 x 100	268 x 175 x 128	15	415	2 x 0.55	900
HDO/25/250	2500	150 x 140 x 120	218 x 215 x 148	18	415	2 x 0.55	1000
HDO/30/250	3000	150 x 130 x 150	218 x 205 x 178	18	415	2 x 0.55	1200
HDO/45/250	4500	180 x 160 x 155	248 x 235 x 183	24	415	2 x 1.5	1350
HDO/60/250	6000	200 x 200 x 150	268 x 275 x 178	30	415	4 x 0.55	1500
HDO/80/250	8000	200 x 200 x 200	268 x 275 x 228	36	415	4 x 0.55	1600
HDO/100/250	10000	250 x 200 x 200	318 x 275 x 228	36	415	4 x 1.5	1650
HDO/150/250	15000	250 x 300 x 200	318 x 375 x 228	48	415	6 x 1.5	1950
HDO/200/250	20000	250 x 300 x 265	318 x 375 x 293	60	415	6 x 1.5	2250

Ordering

All units have a CLAD interior with an external control panel mounted on the right hand side. Units rated above 150°C will come with an insulated raised floor and additional cooling around the framework. Where options are required, simply add the option code to the original reference

E.g. HDO/10/250 with insulated track floor and recorder becomes HDO/10/250/TR/REC

Contact sales for bespoke options.

Option Codes

Stainless Steel Chamber - SS
Explosion Relief Panels - EXP
Profile Control - 3016CP
25mm Access Ports - AP

Insulated Track Floor - TR
Extraction Systems - BIEXT
10 Stage Profile - 3016PC10
50mm Access Ports - AP50

3 Point Calibration - 3PC
Count Down Timer - TDT
Recorder - NCR
75mm Access Ports - AP75

9 Point TUS - 9PC
Real Time Clock - RTC
Recorder with Multi Profile - NPCR
Door Contact - DC



Tanhouse Lane, Widnes, Cheshire WA8 0SR
Tel 0151 424 5001 enquiries@genlab.co.uk www.genlab.co.uk

