



Genlab Heavy Duty Ovens



(Trolley is optional extra)

Model Shown - HDO/20/250/TR

The Genlab range of Heavy Duty Ovens (HDO) suit most industrial applications for the controlled warming and drying of products. Eight 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.

Features

- 8 sizes 1,000 to 10,000 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	Weight (kg)
Flat sheet floor (150 °C)						
HDO/10	1000	100 x 100 x 100	152 x 175 x 125	9	415	700
HDO/15	1500	150 x 100 x 100	202 x 175 x 125	12	415	750
HDO/20	2000	200 x 100 x 100	252 x 175 x 125	15	415	850
HDO/25	2500	150 x 140 x 120	202 x 215 x 145	18	415	950
HDO/30	3000	150 x 130 x 150	202 x 205 x 175	18	415	1150
HDO/45	4500	180 x 160 x 155	232 x 235 x 180	21	415	1300
HDO/60	6000	200 x 200 x 150	252 x 275 x 175	27	415	1450
HDO/100	10000	250 x 200 x 200	302 x 275 x 225	36	415	1600
Insulated floor (250 °C)						
HDO/10/250	1000	100 x 100 x 100	162 x 175 x 125	9	415	750
HDO/15/250	1500	150 x 100 x 100	212 x 175 x 125	12	415	800
HDO/20/250	2000	200 x 100 x 100	262 x 175 x 125	15	415	900
HDO/25/250	2500	150 x 140 x 120	212 x 215 x 145	18	415	1000
HDO/30/250	3000	150 x 130 x 150	212 x 205 x 175	18	415	1200
HDO/45/250	4500	180 x 160 x 155	242 x 235 x 180	21	415	1350
HDO/60/250	6000	200 x 200 x 150	262 x 275 x 175	27	415	1500
HDO/100/250	10000	250 x 200 x 200	312 x 275 x 225	36	415	1650

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

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