HDO/45/250

HDO/150/NPCR

# Heavy Duty Ovens

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
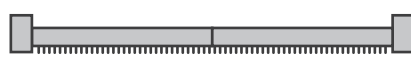- Low chamber uniformity

## 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 100mm 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 Dimensions (H x W x D cm) | External Dimensions (H x W x D cm) | 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 | 152 x 175 x 128 | 9 | 415 | 1 x 0.55 | 750 |
| HDO/15/250 | 1500 | 150 x 100 x 100 | 202 x 175 x 128 | 12 | 415 | 1 x 0.55 | 800 |
| HDO/20/250 | 2000 | 200 x 100 x 100 | 252 x 175 x 128 | 15 | 415 | 2 x 0.55 | 900 |
| HDO/25/250 | 2500 | 150 x 140 x 120 | 202 x 215 x 148 | 18 | 415 | 2 x 0.55 | 1000 |
| HDO/30/250 | 3000 | 150 x 130 x 150 | 202 x 205 x 178 | 18 | 415 | 2 x 0.55 | 1200 |
| HDO/45/250 | 4500 | 180 x 160 x 155 | 232 x 235 x 183 | 24 | 415 | 2 x 1.5 | 1350 |
| HDO/60/250 | 6000 | 200 x 200 x 150 | 252 x 275 x 178 | 30 | 415 | 4 x 0.55 | 1500 |
| HDO/80/250 | 8000 | 200 x 200 x 200 | 252 x 275 x 228 | 36 | 415 | 4 x 0.55 | 1600 |
| HDO/100/250 | 10000 | 250 x 200 x 200 | 302 x 275 x 228 | 36 | 415 | 4 x 1.5 | 1650 |
| HDO/150/250 | 15000 | 250 x 300 x 200 | 302 x 375 x 228 | 48 | 415 | 6 x 1.5 | 1950 |
| HDO/200/250 | 20000 | 250 x 300 x 265 | 302 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/NCR**. Contact sales for bespoke options.

## Option Codes

| | | | | | |
|---|---|---|---|---|---|
| **SS** | Stainless Steel Chamber | **TR** | Insulated Track Floor | **BIEXT** | Extraction Systems |
| **3016CP** | Profile Control | **3016P10** | 10 Stage Profile | **TDT** | Countdown Timer |
| **NCR** | Recorder | **NPCR** | Recorder with Multi Profile | **RTC** | Real Time Clock |
| **AP** | 25mm Access Ports | **AP50** | 50mm Access Ports | **AP75** | 75mm Access Ports |
| **DC** | Door Contact | **3PC** | 3 Point Calibration | **TUS** | 9 Point TUS |