Genlab Prime XL Multi-Purpose Incubators - 4 Available

Stock No	GEN500
Manufacturer	Genlab
Model	PRI/1600H/TDIG PRIME XL
Year of Manufacture	2023
Condition	Brand New, Excellent Condition, Unused, Current Model
Internal Size (WxDxH mm)	750 x 1300 x 1500mm (TBC)
Max Temp	100°C
Location	Wetherby, Leeds, UK
Weight (kgs)	375kg (TBC)
External Dimensions (WxDxH mm)	950mm x 1850mm x 2000mm (TBC)

Description

The Genlab 1600H Prime XL multi-purpose incubator is a high capacity, fan assisted unit engineered for demanding industrial, R&D, and production environments. Built to Genlab's high manufacturing standards, these ovens offer an enhanced temperature accuracy and an extended operating range up to 100°C.

Suitable for uniform heating for a wide variety of laboratory and production applications.

Featuring a robust heavy duty panelled construction, a mirror polished stainless steel chamber, reinforced shelving for

increased load capacity, and precision PID temperature control via the intuitive TDIG touchscreen controller.

Preliminary Announcement - Secure Now Before the Full Release

Whether you need one unit or multiple, be the first to secure machinery in this exclusive clearance for brand new, unused incubators.
Available immediately due to a cancelled manufacturing contract, these high quality machines have never entered production and offer a rare opportunity to acquire multiple of the same model machine without the lead time.

Temperature Specification

- **Fast, uniform heating** – Incoloy sheathed heating elements, positioned within the side fan duct, provide rapid heat-up and excellent temperature distribution throughout the chamber.
- **Wide operating range** – Reliable temperature control from ambient +8°C to 100°C for a broad range of incubation applications.
- **Outstanding precision** – 0.1°C control resolution with <0.4°C control accuracy ensures repeatable, dependable test conditions.
- **Excellent temperature stability** – Maintains ±0.2°C stability at 37°C for consistent incubation performance.
- **Uniform chamber conditions** – Achieves ±1.0°C temperature uniformity at 37°C, helping ensure reliable results across the entire load.
- **Quick to operating temperature** – Reaches 37°C in approximately 20–22 minutes, reducing waiting time between test cycles.
- **Rapid temperature recovery** – Returns to setpoint in around 5 minutes after a 30-second door opening, minimising disruption to sensitive samples.
- **Enhanced safety protection** – Independent Pt100A overheat protection with configurable alarms and automatic or manual reset safeguards both the chamber and valuable contents.

Controls

- **Intuitive 3.2" colour touchscreen** – TDIG PID controller with real-time clock for simple, user-friendly operation.
- **Dual sensor protection** – Independent Pt100A control and overheat sensors deliver accurate temperature regulation with built-in safety.
- **Advanced process programming** – Configure countdown timers, 8-stage profiles, cyclic operation and 24/7 scheduling to automate complex heating cycles.
- **Comprehensive data logging** – Monitor temperature trends for up to 48 hours on-screen, with USB export of raw process data and energy consumption.
- **Integrated energy monitoring** – Built-in kWh meter helps track power usage and improve operational efficiency.
- **Customisable operation** – Advanced control features can be enabled or disabled to suit specific applications, with optional alarm output upgrades available.
- **Convenient access** – Side-mounted control panel provides easy operation while maximising chamber accessibility.

Construction

- **Robust industrial construction** – Structural steel frame with a powder-coated exterior for long-lasting durability.
- **Stainless steel chamber** – 304 polished stainless steel interior offers excellent corrosion resistance and easy cleaning.
- **Thermal efficiency** – High density insulation and high-temperature silicone door seals minimise heat loss and improve energy efficiency.
- **Uniform heating** – Fan assisted horizontal airflow ensures consistent temperatures throughout the chamber.
- **Easy loading access** – Twin horizontal doors provide convenient access to large or multiple product loads.
- **Flexible shelving system** – Adjustable stainless steel shelves with 30–40kg capacity per shelf accommodate a wide variety of products and sample sizes.
- **Built for mobility** – Heavy-duty castor wheels allow the incubator to be easily positioned within laboratories or production environments.

Dimensions & Capacity

- **Internal Volume** – 1600 Litres
- **External dimension (WxDxH)** ~ 950mm x 1850mm x 2000mm (TBC)
- **Internal Dimensions (WxDxH)** ~ 750mm x 1300mm x 1500mm (TBC)
- **Weight** ~ 375kg (TBC)

Electrical Requirements

- 415 V AC, 3 phase + N + E

Safety Systems

The built in safety system provides reliable protection through an independent overheat probe, configurable alarm limits, and hysteresis control. With flexible reset options and intelligent power-failure behaviour, the system can either enter a safe standby mode or automatically resume operation to the default setpoint, ensuring secure and controlled performance.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.