PCR Sterile Cabinets with HEPA - Titan

Description

The Titan series PCR workstations are very compact and equipped with state-of-the-art laminator technology. Titan sterile cabinets combine energy-saving design with HEPA filtration. They offer full mobility and allow for flexible positioning in the laboratory.

The device offers the safest and most reliable way to achieve consistent results in your daily PCR procedures:

- Laminar airflow with sterile air eliminates the risk of cross-contamination during operation and prevents chamber contamination.
- The chamber is the safest and most reliable method for achieving consistent results in your daily PCR procedures.
- The combination of UV light and sterile air, with an easy-to-clean stainless steel chamber, a large working opening, and optimal ease of use makes Titan PCR the best choice for your laboratory.

The integrated control panel with LCD display is optimally positioned for easy viewing and operation. Incorporating easy programming with functions for operating time, lighting adjustments, exhaust and down flow air alarms, correct window position, ensuring optimal performance and safety characteristics at all times.

How does the airflow work?

Air flows into the sterile chamber from above and passes through a pre-filter before the main HEPA filter to create a true laminar flow, ensuring optimal product protection.
The airflow then exits at both the front opening and the rear of the work surface, creating a positive pressure environment (see illustration).
The turbulence-free airflow ensures a clean, sterile workspace and fully protects your products from microbiological contamination.

Titan PCR Workstation with HEPA

Titan PCR Workstation air flow

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Specifications

Optimal ease of use

- Glare-free lighting
- Easy access (400 mm working opening)
- Low noise level
- Mobility: Easy positioning on existing laboratory tables or workbenches. When not in use, the device can be easily moved, removed, or stored.

Ultra clean environment – Safety first

- The HEPA filters have a depth of 110 mm with efficiency at 99,999% against 0,3 µm particles, ensuring a clean sterile work chamber environment.
- Unique laminator/diffuser technology giving turbulent-free air flow, protecting your samples against particle contamination.
- Easy cleaning and disinfection of all surfaces.
- Angled pre-filter for easy inspection and filter exchange.
- Easy maintenance, with all service functions being performed from the front of the cabinet, including changing of the HEPA filters, pcb's and sensors. Similarly, all adjustments of alarms and fan speed also are made from the control panel at the front.
- Down flow air speed can be fixed or adjustable from 0 to 0.6 m/s to suit your procedures. The standard setting is 0.28 m/s.

Energy saving benefits

- Latest energy-efficient EC fan ensuring low energy consumption of less than 0.2 Amp. Saving up to 85% of energy compared to the old AC fans.
- Annual operating costs are reduced due to the low energy fan, which allows for the use of the HEPA filters with a depth of 110 mm, giving a 50% longer filter life.
- Low energy consumption results in less heat transmission to the work chamber and to the laboratory contributing significantly to a reduction of overall energy costs.
- Possibility to connect a PIR sensor to the cabinet which allows operation at reduced speed when unattended, maintaining the cabinet's integrity.
- Full operation is initiated when the operator inserts his hands into the working aperture.

UV Safety

- UV light control with timer and delay function.
- Front closing plate with interlock, protects against UV exposure.

Applications

- PCR
- Cell culture
- Microbiology applications
- Microprocessor manufacturing
- Plant tissue culture
- Micro-electronics assembly …

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Technical Data

Exterior dimensions (H x W x D)	340 × 627 × 990 mm
Interior Dimensions working area (H x W x D)	285 × 573 × 535 mm
Opening of working area (W x H)	573 x 400 mm
Air velocity, down flow (continuously adjustable)	0.28 m/s
Air velocity, deviation	+/-10 %
Noise level, EN 11201	49 dB (A)
HEPA filter, EN 1822	99,999% efficiency H14
UV	Yes
Voltage / Frequency	220-240 V / 50-60 Hz
Power consumption of ventilation	0,2 A
Fuses	10 A
Weight	25 kg
Screen material	Polycarbonate
Working surface	Stainless Steel AISI 304
Housing material	Steel powder-coated