

# Biological safety cabinet

Laboratory Equipment Division

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CYTOSTAR

## Applications

# Cytostar

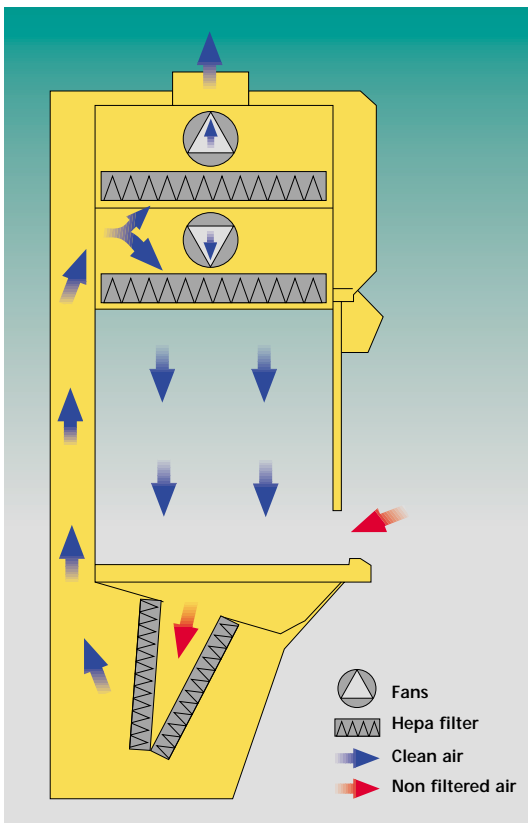
Cytostar cabinet provides personnel, environmental and product protection in applications involving biological agents. These cabinets have been designed according to DIN 12980 for safety handling of Cytotoxic drugs and are meeting or exceeding requirements of DIN 12950, NSF 49, BS 5726 and NFX 44-201.

Each cabinet is factory-certified by TÜV-GS registered laboratory to meet the specified performance requirements.



## General

# features



Cytostar cabinet is 70% recirculating down flow enclosure Class II A/B equipped with three high efficiency HEPA filters:

- HEPA filtered laminar air flow Class 10 which is recirculated in the work zone creates an ultra clean work environment for product protection. A room air barrier at the front opening prevents escape of pathogens into the worker's area.
- Vertical down flow together with room air inflow are filtered for HEPA filtering set of 9 filters under the work surface to ensure non-contaminated area inside the cabinet and long lifetime for exhaust and down-flow filters.
- Exhaust HEPA filter provides with additional safety features. No part of the main cabinet is under positive pressure to the laboratory.
- There are constantly 2 filters operating in series providing dual air filtration.

The design of Cytostar permits easy and safe service. Impulsion and exhaust filters are in clean area and accessible from the front. Filters

# Control

# system

Main switch with key and microprocessor control system. Alphanumeric luminiscent display providing following data:

- Exhaust air flow m<sup>3</sup>/h.
- Laminar flow air velocity m/s.
- Cabinet temperature °C.
- Fans elapsed hour meter.
- U.V. lamp elapsed hour meter.
- HEPA filters last exchange date.

Safety and regulation systems controlled by the microprocessor. Visual and auditory alarms shown on the display:

- Low exhaust flow.
- Low downflow air velocity.
- Exhaust fan malfunction.
- Front window opened.

Control system is also providing safety features as:

- U.V. interlocking when front window is open.
- Air flow and lighting interlocking when U.V. lamp is on.
- Impulsion and exhaust fans providing a double safety system: In case of eventual stop of the exhaust fan, the impulsion one is automatically stopped. In case of eventual stop of the impulsion fan, the exhaust one increases its speed in order to maintain underpressure conditions in the working space.
- Microprocessor compensates for gradual increase in filters resistance: inflow and downflow are maintained in any condition.



under the working surface are accessible from the working space and are changed with downflow air on, to protect the personnel servicing the cabinet and to facilitate disposal. Contaminated filters are never exposed to room ambient so avoiding any hazard.

Stove-enamel coated steel cabinet. Easy access for working and cleaning. Working space in stainless steel AISI 304. Segmented working surface. Laminated safety front window with gas springs. Three HEPA filter stages H 14 efficiency 99,999% for particles >0,3 µm easily accessible for replacement.



Filter cartridges guarantee safe and easy filter replacement



Working table sectioned allows easy cleaning and manipulation



Standard delivery includes U.V. lamp, electrical socket and two stop-cocks

