



CYTOSAFE-N 2000

CYTOTOXIC SAFETY CABINET



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FOREWORD

The CYTOSAFE-N 2000 cabinet has been designed to protect both the material to be manipulated from contamination and to protect the operator and the environment from cytotoxic contamination and microbial hazards.

CYTOSAFE-N 2000 has been manufactured according to EN12469 and DIN-12980 standards, with about 70% laminar flow recirculated air and 30% exhausted air with prior HEPA filtering.

Built for handling cytotoxic drugs CYTOSAFE-N 2000 is also suitable for the treatment of class CDC-1/2/3, DHSS-C/B1/B2 groups and wherever a product-personnel-environment cross-protection is required.



APPLICATIONS

Cytosafe-N 2000 cabinet is especially suitable for applications such as:

- Preparation and handling of cytotoxic drugs
- Preparation and manipulation of anti-neoplastic chemo-therapeutics
- Presence of agents likely to cause genetic alterations or synergetic activities with other materials.

Since Cytosafe-N 2000 cabinets meet also EN-12469 as for Class II Biohazard cabinets, they can be used also for :

- Microbiology
- Virology
- Haematology
- Cell culture
- Recombinant DNA

BENEFITS

- ✓ CYTOSAFE-N 2000 cabinets monitor work conditions to ensure the correct laminar airflow and a protective air barrier.
- ✓ CYTOSAFE-N 2000 is provided with an automatic regulation system to keep the airflow speed (0.4 m/sec) in the work chamber constant. This system counters the effects of the gradual clogging of the three HEPA filters
- ✓ CYTOSAFE-N 2000 can be easily serviced through the front panel
- ✓ **CYTOSAFE-N 2000 has a removable base 255 mm high . Without this base the cabinet is 1995 mm high, thus it can easily pass through doors only 2 m high.**

TECHNICAL DATA

- ✓ AISI-304 working area with radiussed angles and corners and work surface of AISI-316L stainless steel.
- ✓ Structure of corrosion resistant epoxy powder painted steel
- ✓ Two centrifugal fans, direct driven motors. IP-55 protection factor
- ✓ Three absolute HEPA filters with efficiency over 99.995% MPPS, D.O.P. tested

The filter located under the work surface is an HEPA filter, multidihedral type, with efficiency over 99.995% MPPS D.O.P. tested.

- ✓ Motor-fans with automatic and independent regulation to keep airflow speed constant
- ✓ The microprocessor monitoring system displays all relevant data with regard to the operating functions, the different alarms and the error messages.
- ✓ DOP test inlet, IP-44 electric power point, a gas tap with solenoid valve, a manual tap for gas or vacuum available as standard
- ✓ Safe and easy replacement of HEPA filters according to DIN-12980 standard.

- ✓ AISI -316 work surface partially solid (as standard) or completely perforated (as option) for a better laminarity in the work area.
- ✓ Available in 90, 120, 180 cm versions

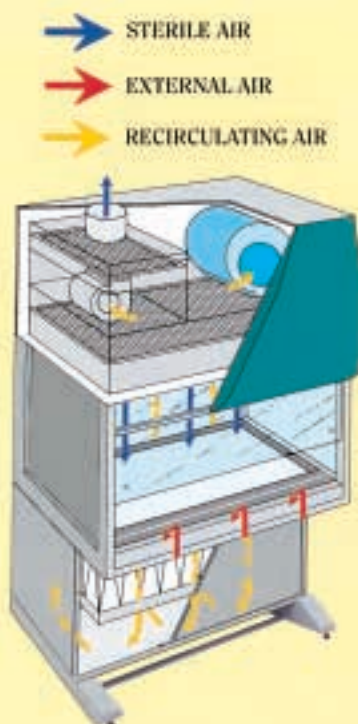
OPTIONS

U.V. Lamp installed on the aluminium front closing panel

SPECIAL USES

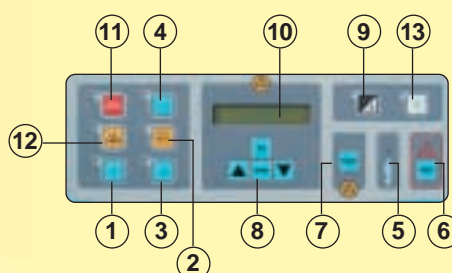
For special uses a version with activated charcoal filter instead of the multidihedral HEPA filters, located under the work surface, is available.

OPERATIONAL PRINCIPLES



BH-EN-2000 TOUCH SENSITIVE OPERATING BOARD

- 1 - Light switch
- 2 - U.V. Lamp switch
- 3 - Electrical socket switch
- 4 - Solenoid valve switch
- 5 - Power supply LED
- 6 - Alarm LED
- 7 - Control parameters keys
- 8 - Programming area
- 9 - Main switch
- 10 - Rearlit alpha numeric LCD display
- 11 - Speed reduction key
- 12 - U.V. timer key
- 13 - Correct working status





The 3rd HEPA filter is easily replaced without risks for the service personnel and environment. Simply remove the work surface, seal the clogged filter with a plastic cover and easily remove it by the lower part of the cabinet, and then put it in a bag for the thermo-distruction.

TECHNICAL CHARACTERISTICS

| CODE | MODEL | USEFUL DIMENSIONS mm | | | OVERALL DIMENSIONS mm | | | POWER Kw | WEIGHT Kg |
|-------------------|-----------------|----------------------|-----|-----|-----------------------|------|-----|----------|-----------|
| | | W | H | D | W | H | D | | |
| F74 600310 | Cytosafe-N 2003 | 885 | 660 | 580 | 1090 | 2245 | 785 | 1.2 | 242 |
| F74 600320 | Cytosafe-N 2004 | 1190 | 660 | 580 | 1395 | 2245 | 785 | 1.2 | 329 |
| F74 600340 | Cytosafe-N 2006 | 1800 | 660 | 580 | 2005 | 2245 | 785 | 1.5 | 463 |

| Front Aperture | Exhaust duct | Temperature rise | Noise level | Volt / Hz | Lighting | Vibrations |
|----------------|--------------|------------------|-------------|-----------|-----------|----------------|
| 200 mm | Ø 200 mm | < 4° C | < 60 dBA | 230 / 50 | > 900 lux | < 0,005 mm RMS |

ACCESSORIES

| CODE | DESCRIPTION |
|-------------------|----------------------------------|
| F74 600500 | UV lamp for Cytosafe-N |
| F72 799510 | Antiblow back valve |
| F72 702050 | Additional electrical socket |
| F72 702060 | Additional gas-vacuum manual tap |

- Please ask to your local distributor for any others accessories

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