

Description

Cytotoxic drugs are therapeutic agents intended for, but not limited to, the treatment of cancer. These drugs are known to be highly toxic to cells, mainly through their action on cell reproduction. Many have proved to be carcinogens, mutagens or teratogens. Cytotoxic drugs are increasingly being used in a variety of healthcare settings, laboratories and veterinary clinics for the treatment of cancer and other medical conditions such as rheumatoid arthritis, multiple sclerosis and auto-immune disorders. Health effects attributed to exposure to occupational cytotoxic drugs can be very serious. Research shows that where a high standard of risk control is in place, threats to healthcare are reduced. No exposure limits are set for cytotoxic drugs. Medical opinion is such that even low-level exposure to cytotoxic drugs should be avoided as much as possible. Research has shown that the implementation of suitable safety precautions reduces the incidence of adverse health effects. Cytotoxic drugs preparation Cabinet S@femate Cyto is manufactured in accordance with DIN 12980 standard and provides the laboratory technician



Technical Innovations

- ✓ State of the art microprocessor control system
- ✓ Large digital display, high resolution
- ✓ Air and aerosol-tight sliding sash, electrically operated by finger touch
- ✓ Alarms for low air flow and wrong front window position
- ✓ Sloped front and back wall for the most comfortable access
- ✓ Front access for tertiary filter stage maintenance and service
- ✓ Bag-in bag-out tertiary filter stage changing technology (avoiding rupture of isolation continuity of the work area during filter changing according to KTA 3601 Lüftungstechnische Anlagen in Kernkraftwerken)

Applications

- ✓ Cytotoxic drugs handling
- ✓ Manipulations of microorganisms, bacteria, fungi, virus and parasites risk groups 1, 2 and 3
- ✓ Isolation and culture of samples
- ✓ Quantification Methods
- ✓ Microscopy techniques and sample preparation
- ✓ Identification and typing of microorganisms
- ✓ Genetic Manipulation

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Serial equipment

- ✓ Vacuum tap
- ✓ Electrical outlet Schuko

Optional equipment

- ✓ Several types of adapters at the expulsion



Technical features

- ✓ Four levels of safety are therefore provided:
 1. Safety for the operator, (extremely high Aperture protection factor) identical to the one provided by a Biological Safety Cabinet
 2. Safety for the environment (double H14 filtration stage in the exhaust)
 3. Safety for the product and between products (class 100 in the work area)
 4. Safety for the engineers when changing the tertiary filter stage (bag-in bag-out procedure)
- ✓ Microprocessor controlled motor blower, with volumetric sensor for exhausted air flow monitoring
- ✓ State of the art Microprocessor control system offering:
 - Large screen monitor.
 - Automatic control of preset airflow volumes
 - Sliding sash window with smart control
 - Permanent monitoring of HEPA filters life span
 - Alarms. Multilevel alarms, with redundancy functions
 - Permanent display of working conditions
 - Highest air flow stability both in case of transitional disturbances or to progressive filter clogging
 - Semi-automatic fumigation cycle (EN 12297 tested and certified)
 - Continuous monitoring of front barrier air flow for the highest operator safety
 - Low barrier alarm
 - Power failure alarm
- ✓ Volt-free contact for remote monitoring of exhaust fan
- ✓ Automatic reset of initial conditions in case of power failure

Technical features

Models	Sizes		Weight (kg)
	internal (mm) LxDxH	external (mm) LxDxH	
SafeMate Cyto 0.9	924x600x700	1074x840x2220	350
SafeMate Cyto 1.2	1230x600x700	1380x840x2220	400
SafeMate Cyto 1.8	1840x600x700	1990x840x2220	750

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