CYTOTOXIC SAFETY CABINET

DOP TEST PORTS

LOW NOISE LEVEL

EASY FILTER CHANGE

LOW ENERGY CONSUMPTION

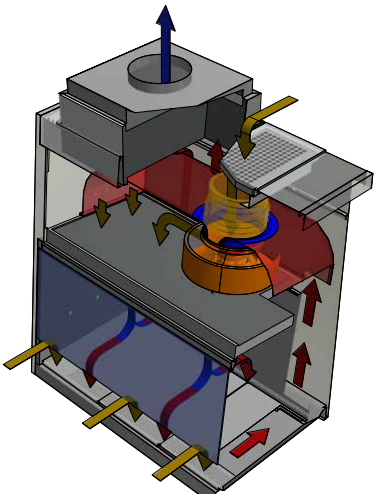
EASY TRANSPORT AND ASSEMBLY

ISO 14644

CE

Provides you with the highest level of operator safety to protect you and your personnel from the hazardous compounds used in cytotoxic drugs.

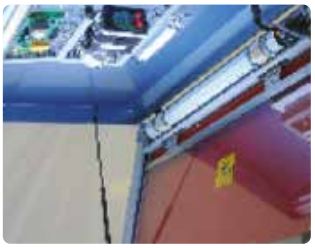
CYTOTOXIC SAFETY CABINET AIRFLOW DIAGRAM



Metisafe Cytotoxic work cabinets works under principles with full exhaust of Pre/HEPA filtered fresh air to outer athmosphere without recirculation. Exhausting through HEPA filter protects also environment. Those Airflow principles provide safe work with cytotoxic / antineoplastic materials beside of biologicals. Non-recirculated airflow cytotoxic cabinet also prevents possible dangers against volatile vaporizing chemical substances. The room air is pulled in through the perforations located at front of the work plate and directed to blower plenum (inflow air). This airflow direction prevents reaching dirty air to materials over the working plate. Pre/HEPA filtered air supplied through top of the cabinet provides the work area protecting the work zone under ISO-5 class laminar airflow. Total air in the working cabinet fully exhausted without recirculation through exhaust blower fan to athmosphere by keeping working area under negative air pressure. In addition to primary air barrier within the working zone negative plenum design of the Metisafe cabinet prevents particle escape to surroundings and zero leakage is ensured.

DOP Test Ports
Low Noise Level
Easy Filter Change
EN 12469 Certificated
Low Energy Consumption
Easy Transport and Assembly

Removable monoblock or sterilization available partited, high strength, non-vibrating stainless steel work plate



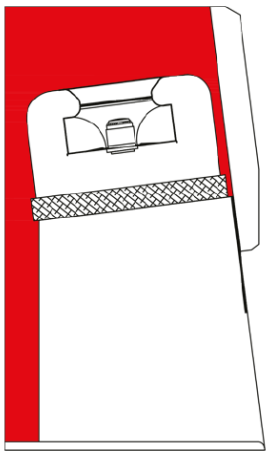
Isolated electrical components assembly from contaminated zones, easy to reach for servicing

Automatic filter compensation, cruise control airflow rate. Energy efficient high performance EC fan technology

Scratch-proof stainless steel, monoblock interior cabinet surface with easy to clean continous radiused corners

Back sloped front panel design according to anthropometric rules provides increased viewing angle, operator comfort and ergonometric for long period of works

Monoblock and piston supported openable front panel for comfort sash window backside cleaning



Plenum cast design creates negative pressure around contaminated work area and ensures zero leakage

Waste Management System Integrated
Metisafe Cytotoxic Safety Cabinet

MICROPROCESSOR CONTROL UNIT

Easy adjusted working parameters by touch pad control panel Continous airflow velocity measuring sensors and cruise controlled automated airflow rate adjustment
Audio and visual alarm activation on airflow rate changes Manually cancellable alarm
Real time information available large LCD screen: Airflow velocity, Airflow rate, Total work time, UV and fluorescent lamp work time, Alarm activation memory data, Filter change periods, Filter integrity state, Alarm activation log data

ACCESSORIES & OPTIONS

Full Automatic Decontamination System

- Corrosion resistant exhaust blower
- Homogenous and cruise control laminar airflow
- Advanced filter compensation system keeping steady air velocity under increased filter resistance
- Continous work suitable HEPA Fan/Filter Unit
- Contamination proof antimicrobial coated steel main body frame
- Auto set-up available motorized sash window
- Homogenous illumination
- Timer controlled effective disinfection UV Lamp

Hanger Apparatus

Anti-vibration weighing balance table

Monoblock or partited working table

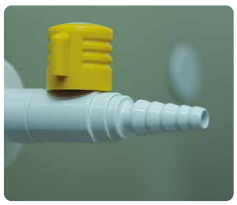
Pre-Filter

Document Holder

- Carbon Filter
- Semi/Full Automatic Decontamination
- Manual Fumigation
- Key/Lock Mechanism
- Adjustable LED illumination
- High Capacity HEPA/ULPA Filter
- High Capacity Exhaust Fan Motor
- Heater & Microscope Assembly Base
- Solenoid / Backflow Valve
- Cleanroom Chair
- Voltage Regulator
- Arm Rest Apparatus
- Disinfection dispenser
- Acrobat Document Holder
- IR Sensored Bunsen Burner
- Portative Germicidal UV lamp
- Height adjustable support stand
- Mechanical Airflow Velocity Sensor
- UPS (Uninterruptible Power Supply)
- BSC Microbiological Test Equipments
- + 5 Year Extended Warranty

Table

Microincinerator

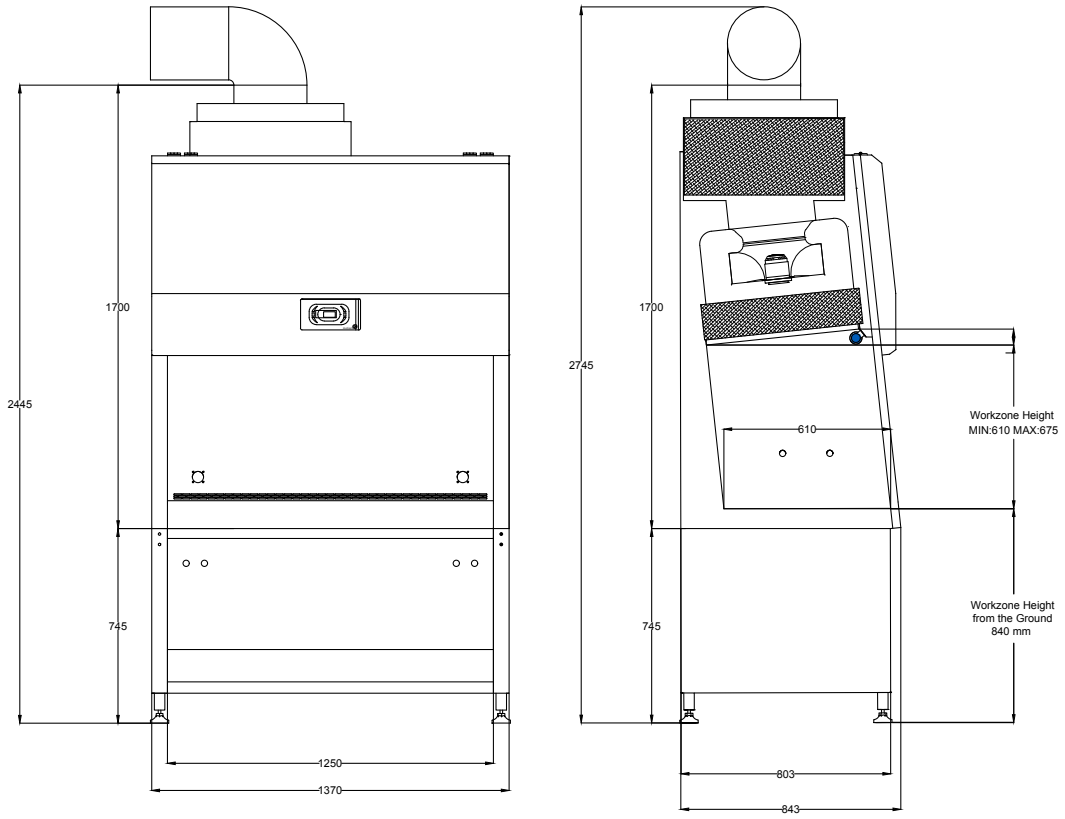


Gas / Vacum Valves

IP 54 Electrical Socket

Waste Management

METİSAFE CYTOTOXIC SAFETY CABINET



METİSAFE CYTOTOXIC SAFETY CABINET TECHNICAL SPECIFICATIONS

Model		MSC-IIB-90	MSC-IIB-120	MSC-IIB-150	MSC-IIB-180
DIMENSIONS & WEIGHT					
Internal Dimensions (W x D x H) mm		875x520x 695	1250x610x614	1480x520x695	1785x520x 697
External Dimensions (W x D x H) mm		995x740x1600	1370x850x1700	1600x740x1607	1905 x 740 x 1607
Support Stand Dimensions (W x D x H) mm		995x702 x745	1370x810x745	1600x700x745	1905 x700 x 745
Packing Dimensions (Excluding Support Stand) (W x D x H) mm		1100 x 870 x 2030	1470 x 970 x 2125	1700 x 890 x 1985	2010 x 890 x 1985
Packing Dimensions (Including Support Stand) (W x D x H) mm		1100 x 1000 x 2030	1470 x 1100 x 2125	1700 x 1020 x 1985	2010 x1020 x 1985
Net Cabinet Weight		187 kg	236 kg	254 kg	271 kg
Support Stand Weight		29 kg	39 kg	37 kg	40 kg
Packed Total Weight		216 kg	275 kg	291 kg	311 kg
HEPA FILTER & AIRFLOW DYNAMICS					
Airflow (m/s)	Inflow	0.40 - 0.60 m/s			
	Downflow	0.25 - 0.50 m/s			
Filters (EN 1822)	Pre Filter	EU4/EU5			
	Main Filter	H14 HEPA, 0,3 µm particle %99.995< filtration efficiency			
	Exhaust Filter	H14 HEPA, 0,3 µm particle %99.995< filtration efficiency			
Clean Area Class	EN ISO 14644-3	< ISO 5			
	US FED 209E	< Class 100			
Exhaust Fan Motor Capacity		Appropriate for 10 m Horizontal and 3 m Vertikal Air Duct			
ENERGY					
"Energy Consumption 230 VAC- 50Hz"	Fan Filter	530 W	550 W	590 W	600 W
	Illumination	18 W	36 W	36 W	36 W
	UV Lamp	15 W	30 W	30 W	30 W
	Power Socket Power / Current	2x1150 W / 2x5 A	2x1150 W / 2x5 A	2x1150 W / 2x5 A	2x1150 W / 2x5 A
Total Power/ Current		2863 W / 12.5 A	2916 W / 12.7 A	2956 W / 12.9 A	2966 W / 13 A
"Energy Consumption in Normal Work Conditions 230 VAC- 50Hz"		548 W	586 W	626 W	636 W
ERGONOMY & COMFORT					
Sash Window Aperture (mm)	Standart-Preset	200 ± 10mm			
	Max Height	440 ± 10mm			
Work-Table Height From the Ground		840 mm			
Sound Level	Normal Mode	< 55 dB(A)	< 55 dB(A)	< 58 dB(A)	< 60 dB(A)
	Eco Mode	< 50 dB(A)	< 50 dB(A)	< 50 dB(A)	< 50 dB(A)
Woring Area Illumination (Lux)		750 – 1100 Lux			
Sloped Front Panel For Work Comfort		<7°			
WORK ZONE					
Working Table	Standard	304 Stainless Steel			
	Optional	316L Stainless Steel			
Front Glass Thickness		< 6 mm Laminated			
Microprocessor Control Unit & Display Parameters		One key touch on-off, Timer setting, Inflow/Downflow Air Velocity/Airflow Rate, System, Ready/Not-Ready message/ warning, Normal/Stand-by option button, Automated airflow rate and velocity compensation system, HEPA Filter Life (percent), Total working Time, UV and FL Lamp working times, Automatic Stand-by status at sash window closure, Motorized sash window level position setting, One key sash window preset position, Automatic UV Lamp-Off protection at sash window opening, Sash window position message, Servicing records, Password protected technical service key			
Audio-Visual Alarm Parameters		Audible and Visual Alarms for Air Flow/Rate System ready/not-ready information, Filter/Lamps replacement warning, Service need warning, Alarm cancel button, Unproper sash window position warning			