



CSC224– Cytotoxic Safety Cabinet

Cytotoxic Safety Cabinet is an essential piece of laboratory equipment designed to provide a safe working environment when handling cytotoxic drugs, hazardous materials, biohazardous agents etc. These cabinets are engineered to minimize exposure to harmful substances for the user while maintaining a contamination-free workspace. With features such as high-efficiency particulate air (HEPA) filtration, controlled airflow, and ergonomic design, the cabinet ensures operator safety and protection of the surrounding environment.

Cytotoxic Safety Cabinets are necessary equipment in clinical and pharmaceutical laboratories, research environments, and facilities where the preparation, formulation, or analysis of cytotoxic drugs is required. microbiology, biomedical, DNA recombinant, animal experiment, and biological products. Especially in the occasion that operator need to adopt protective measure, such as medical and health, medical research.



ULPA Filter 99,9995% efficient



Motorized front window

Sliding Front panel and rollers included. Two-layer laminated toughened glass 6mm, anti UV



Foot Switch & Remote control

Adjust front window height by foot. All function can be realized by remote control



LCD Display

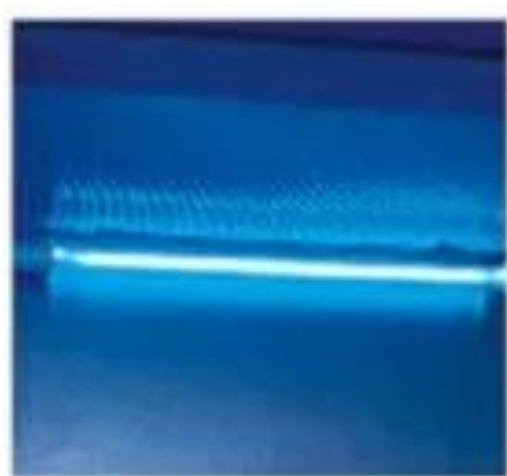


Visual and audio alarm

Visual and audio alarm for window abnormal opening/over height, filter replacement, abnormal air flow velocity.

- Main body made from cold rolled steel with antibacterial powder coating
- Filter life indicator
- Three protection: operator, sample and environment
- Audio and visual alarm: Abnormal airflow velocity, filter replacement, window over height, high filter pressure
- Two water proof sockets
- ULPA and HEPA filter with efficiency 99.9995%;
- The internal temperature of the chamber is monitored and displayed through a mobile application connected via Wi-Fi
- LCD display, following parameters are displayed on:
 - exhaust filter and downflow filter pressure,
 - filter and UV lamp working time,
 - inflow and downflow velocity,
 - filter life,
 - humidity,
 - temperature,
 - system working time...
- Memory function in case of power-failure
- Motorized front window
- UV and LED lamp
- Foot switch
- Castors with leveling function and movement locking mechanism- Foot master caster

Cabinet type	CSC224	CSC225
Internal Size (W*D*H) mmm	910x600x630	1220x600x630
External size (W*D*H) mmm	1087x760x2100	1380x760x2100
Tested opening safety height mm	200 mm	
Maximum opening	440 mm	
Inflow velocity	0.53±0.025 m/s	
Down flow velocity	0,33 ±0,025m/s	
Exhaust volume	347 m³/h	465 m³/h
Air Supply Filter	ULPA filter, efficiency>99.9995% for particle size at 0.12µm	
Exhaust Filter	ULPA filter: first exhaust filter: 0.12µm efficiency 99.9995%; HEPA filter: secondary exhaust filter: 0.3µm efficiency 99.995%	
Noise	≤67 dB	
Filter life indicator	Yes	
Front window	Motorized, two-layer laminated toughened glass N6mm, anti-UV	
UV Lamp	20Wx1	30W*x1
UV Lamp specification	UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination.	
LED Lamp	12Wx2	14Wx2
Illumination LED lamp	≥1000 Lux	
Consumption	700W	900W
Waterproof Socket	2, total load of two sockets 500W (possibility for 2 additional)	
Food switch	Adjust front window height by foot	
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity, filter life, humidity and temperature, system working time...	
Visual and audio alarm	Abnormal airflow velocity, filter replacement, window over height, high filter pressure	
Control system	Microprocessor	
Airflow system recirculation/Exhaust	70% air recirculation 30% air exhaust	
Material	Work zone: 304 stainless steel , Main body: Cold rolled steel with anti-bacterial coating	
Caster	Foot master caster	
Power supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz	
Standard configuration	LED Lamp*2, UV lamp*2, drain valve, remote control , 2* waterproof sockets, base stand, foot switch, water tap * 1, gas tap * 1	
Optional configuration	Armrest, Formalin fumigation sterilizer, Infrared sterilizer, Airflow tester	



UV Lamp



Footmaster Caster



Remote Control



Water and Gas tap

Please note

If this Biological Safety Cabinet does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

COLO LabExperts



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