

# MEDICAL BIOLOGICAL SAFETY CABINETS



# MEDICAL BIOLOGICAL SAFETY CABINETS

A medical biological safety cabinet is a negative pressure safety device that protects the laboratory environment, and experimental materials from the exposure of infectious aerosols and splash while performing the laboratory experiments such as primary cultures, bacterial strains, and diagnostic specimens. The HEPA filters installed in the biological safety cabinets help to avoid contamination of the processed samples and to protect the environment. Used in Drug processing, Pharmaceutical, Laboratory, Research.

## LTCBS10-2 PCR CABINET

### SPECIFICATIONS

Model	LTCBS10-2
Air Flow Velocity	0.3~0.5 m/s, speed adjustable
Pre-Filter	Polyester fiber, Washable
Fluorescent Lamp	40 Wx1
UV Lamp	20 Wx2, UV timer
Illumination	≥1000 lux
Work Surface Height	750 mm
Max Opening	320 mm
Inner Dimension (WxDxH)	900x595x560 mm
Overall Dimension (WxDxH)	1000x705x1770 mm
Package Size	1160x920x1350 mm
Caster	Universal Caster with leveling feet
Front Window	Manual, 5 mm toughened glass, Anti-UV
Chamber Material	Main Body: Cold-rolled steel with anti-bacteria powder coating, Work Table: 304 stainless steel
Socket	Two, total load≤500 W
Shelf with IV bar	Stainless steel, 492x140x55 mm
Weight	≤60 dB
Power	150 kg
Power Supply	380 W

# LTCBS10-7 CYTOTOXIC SAFETY CABINET

- Stainless Steel 304 table for operation
- Digital LCD display for easy monitoring of all parameters
- Emission of 253.7 nm for highly efficient decontamination
- Motored front window with timer function
- Two-layered marinated toughened glass ( $\geq 5\text{mm}$ ) motorized front window
- Negative air pressure provides personnel protection by constant movement of air in working area
- Remote control operation including front sash movement and fan speed control
- Foot switch to adjust the height of the front window
- Centrifugal fan speed adjustable: H14 HEPA filter
- Intrinsic sterilization is achieved after activating cabinet for 30 min via UV timing
- Air drawn into the cabinet through air grill
- Filter Life Indicator: Pressure value displayed to show life utility of main filter
- Low noise and high energy efficiency for operational cost savings
- Audio and visual alarm for filter replacement, front window over height and abnormal airflow



## SPECIFICATIONS

Model	LTCBS10-7
Type	Class II, Type A2
Filter	ULPA Filter, efficiency > 99.9995% for particle size at 0.12 $\mu\text{m}$
Inflow Velocity	0.53 $\pm$ 0.025 m/s
Down Flow Velocity	0.33 $\pm$ 0.025 m/s
Exhaust	Exhaust Filter: ULPA Filter: First exhaust filter:0.12 $\mu\text{m}$ efficiency 99.9995%. HEPA Filter: Secondary exhaust filter:0.3 $\mu\text{m}$ efficiency 99.9995%. Exhaust Volume: 465m <sup>3</sup> /h
Tested Opening	Safety height 200 mm (8" )
Max Opening	440 mm (17")
UV Lamp	30Wx1 Emission of 253.7 nanometers for most efficient decontamination UV life indicator, UV timer
LED Lamp	16Wx2
Illumination	$\geq 1000$ lux
Display	LCD Display
Control System	Microprocessor
Humidity and Temperature	Humidity and Temperature can be displayed on the control panel
Work Zone Material	304 Stainless steel
Main Body Material	Cold roller steel with anti bacteria powder coating
Front Window	Motorized, two layer laminated toughened glass $\geq 6$ mm, Anti UV
Caster	Footmaster Caster
Visual and Audio Alarm	Abnormal airflow velocity; filter replacement; front window at unsafe height; High filter pressure alarm
Noise	$\leq 67$ dB
Waterproof Socket	Two, total load of sockets: <500W
Standard Accessory	Base Stand, Drain Valve, Waterproof sockets x2, Remote control, LED lamp x2, UV lamp x1, Water tap x1, Gas tap x1
Optional Accessory	Armrest, Formalin fumigation sterilizer, Infrared sterilizer, Airflow tester
Internal Size (WxDxH)	1220x600x630 mm
External Size (WxDxH)	1380x760x2100 mm

Package Size (WxDxH)	1540x910x2280 mm
Gross Weight	371 kg
Consumption	900W
Power Supply	AC220V+10% 50/60Hz ; 110V+, 60Hz

## ACCESSORIES

Accessory Code	Name
6200808015	UV Lampx2

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
2400808008	Infrared Sterilizer	150x95x210 mm	
2400808009	Airflow Tester		
2400808010	Formalin Fumigation Sterilizer		300x200x160 mm
2400808011	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
2400808012	Armrest		
2400808013	Laboratory Chair		
2400808014	Dust Particle Counter		
2400808015	Digital Sound Level Meter		
2400808016	Illumination Meter		
2400808017	Air Flow Anemometer		
2400808018	Protective Garment		
2400808019	Protective Gloves		

## LTCBS20 PCR CABINET

Global exclusive

Small dimension, save space, economical and convenient.

Automatic air speed adjustable with filter block.

With memory function in case of power-failure.

Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window

Audio and visual alarm: Filter replacement, window over height, abnormal air flow velocity etc

Time reserve function: This can set the UV lamp and fan working time



## SPECIFICATIONS

Model	LTCBS20-1	LTCBS20-2	LTCBS20-3
Type	PCR Cabinet		
Air Flow Velocity	Reagent Preparation area: 0.3-0.45 (m/s)	-	-

Specimen Preparation Area	Airflow Velocity - Downflow: 0.33±0.025 (m/s) Inflow: 0.53±0.025 (m/s) Airflow Volume - 210 (m3/h) Exhaust Type - TypeA2, 30% exhaust, 70% recirculation Pressure - Negative Operating Area Size (LxWxH) - 560x560x510 mm	Airflow Velocity - Downflow: 0.33±0.025 (m/s) Inflow: 0.53±0.025 (m/s) Airflow Volume - 250 (m3/h) Exhaust Type - TypeA2, 30% exhaust, 70% recirculation Pressure - Negative Operating Area Size (LxWxH) - 660x560x510 mm	Airflow Velocity - Downflow: 0.33±0.025 (m/s) Inflow: 0.53±0.025 (m/s) Airflow Volume - 400 (m3/h) Exhaust Type - TypeA2, 30% exhaust, 70% recirculation Pressure - Negative Operating Area Size (LxWxH) - 1060x560x610 mm
Amplification Analysis Area	Airflow Velocity - ≥0.4 (m/s) Airflow Volume - ≥160 (m3/h) Exhaust Type - 30% exhaust, 70% recirculation Pressure - Negative Operating Area Size (LxWxH) - 440x560x510 mm	Airflow Velocity - ≥0.4 (m/s) Airflow Volume - ≥180 (m3/h) Exhaust Type - 100% exhaust Pressure - Negative Operating Area Size (LxWxH) - 640x560x510 mm	Airflow Velocity - ≥0.4 (m/s) Airflow Volume - ≥180 (m3/h) Exhaust Type - 100% exhaust Pressure - Negative Operating Area Size (LxWxH) - 640x560x610 mm
ULPA Filter	Four ,99.999% efficiency at 0.12µm.		
Clean Level	Class 100(ISO Class 5)	Class 100, Except Amplification Analysis Area	
Front Window	Manual, Toughened glass, Anti UV		
Max opening	400 mm		480 mm
Noise	≤67 dB (A)		
Vibration	≤ 5µm		
UV Lamp	15W x3, UV timer, UV life indicator		30W x1,15W x2
LED Lamp	4W x6	8W x6	8W x4,12W x2
Illumination	≥500 (Each area)	≥650 (Each area)	
Display	Touch Screen		
Control System	Microprocessor		
Waterproof Socket	The load of two sockets (Each area): 500W, total 6 sockets		
Visual and Audio Alarm	Filter replacement, window over height, abnormal air flow velocity		
Work Surface height	750 mm		
Material	Work Zone Material: 304 stainless steel Main Body Material: Cold-rolled steel with anti-bacteria powder coating		
Standard Accessory	LED lamp x6 UV lamp x4, Waterproof sockets x6	LED lamp x6 UV lamp x4, Windproof plate x2, Waterproof sockets x6	
External Size (WxDxH)	1600x710x1900 mm	2100x710x2000 mm	2500x850x2100 mm
Package Size (WxDxH)	1750x980x1400 mm	2250x980x1400 mm	2650x1120x1400 mm
Gross Weight	400 Kg	450 Kg	500 Kg
Consumption	600W, total 2100W (With load)		1000W, total 2500W
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz		
Reagent Preparation Area	-	Airflow Velocity - 0.3-0.45 (m/s) Airflow Volume - 290-430 (m3/h) Exhaust Type - / Pressure - Positive Operating Area Size (LxWxH) - 640x560x510 mm	Airflow Velocity - 0.3-0.45 (m/s) Airflow Volume - 380-560 (m3/h) Exhaust Type - / Pressure - Positive Operating Area Size (LxWxH) - 640x560x610 mm



LTCBS20-1



LTCBS20-2



LTCBS20-3



**Labtare Analytical Instruments**

Email: [info@labtare.com](mailto:info@labtare.com) | Website: [labtare.com](http://labtare.com)