

# MEDICAL BIOLOGICAL SAFETY CABINET



# MEDICAL BIOLOGICAL SAFETY CABINET

It is designed to provide a controlled environment for the manipulation and amplification of DNA and RNA. From Dead-Air boxes to Laminar Flow UV Cabinets with HEPA filtration we have a solution to support your application. Safety is kept in mind for changing the filter.

Used in Drug processing, Pharmaceutical, Laboratory, Research.

Also known as Medical Biosafety Cabinet, Cytotoxic Safety Cabinet, PCR Cabinet.

## BSC41-0900 PCR CABINET

### SPECIFICATIONS

|                           |   |
|---------------------------|---|
| Model                     | BSC41-0900  |
| 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   |

# BSC41-1220 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 laminated toughened glass (≥5mm) 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                    | BSC41-1220  |
| Type                     | Class II, Type A2   |
| Filter                   | ULPA Filter, efficiency > 99.9995% for particle size at 0.12 μm   |
| Inflow Velocity          | 0.53±0.025 m/s  |
| Down Flow Velocity       | 0.33±0.025 m/s  |
| Exhaust                  | Exhaust Filter: ULPA Filter: First exhaust filter:0.12μm efficiency 99.9995%. HEPA Filter: Secondary exhaust filter:0.3μm 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             | ≥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 ≥ 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                    | ≤67dB   |
| 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      |
|----------------|-----------|
| 5900505012     | UV Lampx2 |

## OPTIONAL ACCESSORIES

| Accessory Code | Name                                    | External Dimension | Package Size (mm) |
|----------------|---|--------------------|-------------------|
| 2100505005     | Infrared Sterilizer                     | 150x95x210 mm      |                   |
| 2100505006     | Airflow Tester                          |                    |                   |
| 2100505007     | Formalin Fumigation Sterilizer          |                    | 300x200x160 mm    |
| 2100505008     | Ammonium Hydrogen Carbonate Neutralizer |                    | 300x200x160 mm    |
| 2100505009     | Armrest                                 |                    |                   |
| 2100505010     | Laboratory Chair                        |                    |                   |
| 2100505011     | Dust Particle Counter                   |                    |                   |
| 2100505012     | Digital Sound Level Meter               |                    |                   |
| 2100505013     | Illumination Meter                      |                    |                   |
| 2100505014     | Air Flow Anemometer                     |                    |                   |
| 2100505015     | Protective Garment                      |                    |                   |
| 2100505016     | Protective Gloves                       |                    |                   |

## BSC41 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             | BSC41-400                                   | BSC41-400A | BSC41-480 |
|-------------------|---|------------|-----------|
| Type              | PCR Cabinet                                 |            |           |
| Air Flow Velocity | Reagent Preparation area:<br>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  |



BSC41-400



BSC41-400A



BSC41-480

***LABSTAC***

**Labstac LLC**

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA  
Email: [contact@labstac.com](mailto:contact@labstac.com) | Website: [labstac.com](http://labstac.com)