



TempinTM
preserving life

Class III



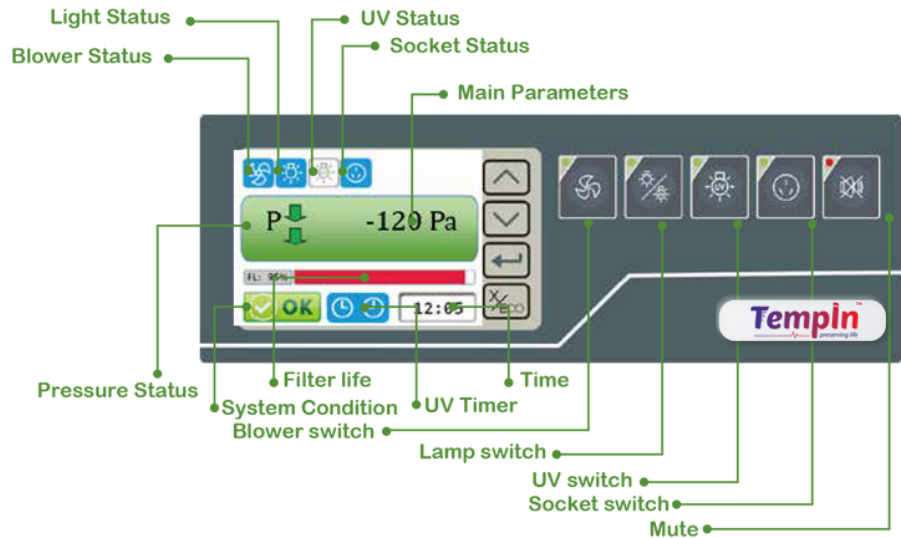
Class III

Features

Biological safety cabinet Class III is 100% exhaust type, it ensures that there is no contamination on the samples and no air leakage to laboratory environment. It is the necessary equipment in BSL-4 laboratory

Intelligence Controlling System

The Biological Safety Cabinet Class III is designed to provide the highest level of containment when working with hazardous materials involving highly infectious microbiological agents in BSL-4 Cabinet laboratories. These gas-tight enclosures protect the operator, the environment as well as the work in progress..



ULPA/HEPA Filter:

HV brand filter, US imported

- ULPA filter, efficiency $\geq 99.9995\%$ @0.12 μm micron
- HEPA filter, efficiency $\geq 99.995\%$ @0.3 μm micron
- Removable uniform-flow film to protect filter from liquor

Velocity Meter:

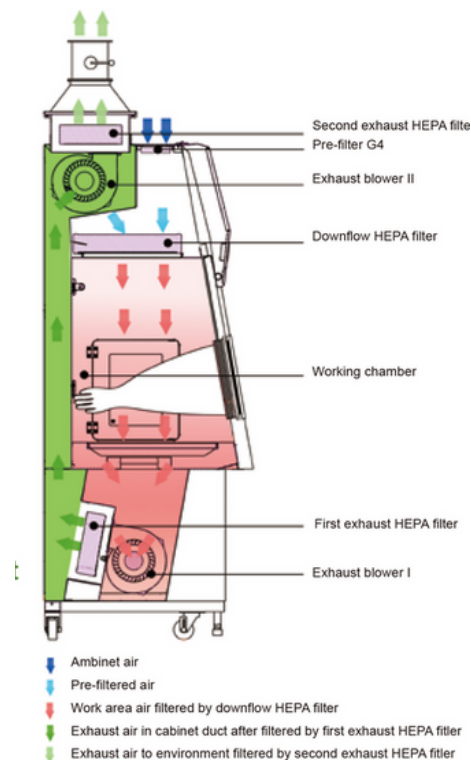
SHIBURA brand (Japan imported) velocity meter for down flow.

- E +E brand (Austria imported) velocity meter for exhaust airflow



Excellent Filtration System

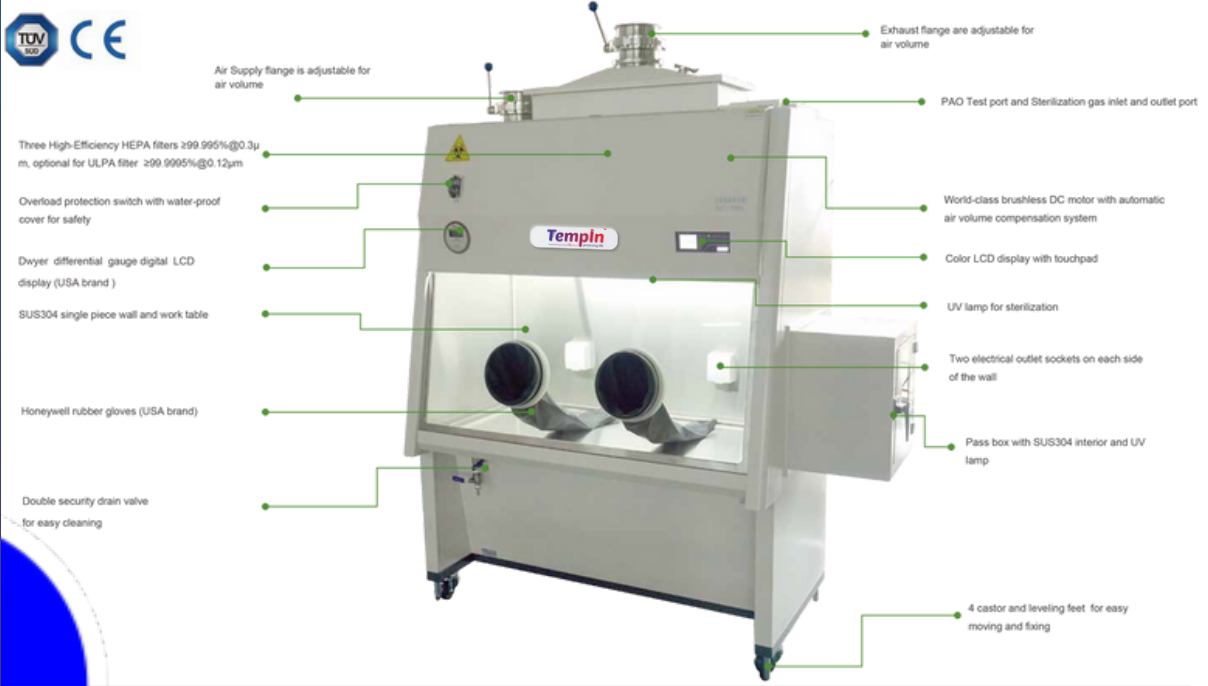
1. Ambient air is pulled into the cabinet through a pre-filter G4 whichTM can trap larger particles and prolong the main filter service life.
2. Air is passed through the downflow HEPA filter into the work zone as a vertical laminar flow air stream. The uniform non-turbulent air stream protects the samples against cross contamination in work area.
3. The downflow air stream near the work surface splits and exits the chamber through perforations around work zone.
4. Air from work zone passes through the first exhaust HEPA filter below the work surface, before traveling through internal Ducting. Then the filtered air passing through the second exhaust HEPA filter located above the cabinet's main chamber to outside environment



Adjustable Air supply valve and exhaust valve

Biosafety cabinet class III can automatically adjust the air volume by Air supply valve collar and exhaust valve collar and can protect dust and particles entering into the cabinet through room and ducting line.





International Standards

| | Biosafety cabinet | For Air Quality | For Filtration | For Electrical safety |
|---------------------|-------------------|---|--|--|
| Standard Compliance | NSF/ANSI 49 | ISO 14644, 1 Class 3, Worldwide IEST-G-CC1001, USA IEST-G-CC1002, USA | IEST-RP-CC034, 1, Worldwide IEST-RP-CC007, 1, Worldwide IEST-RP-CC001, 3, Worldwide EN 1822 (H14), Europe | IEC 61010-1, Worldwide EN 61010-1, Europe UL 61010-1, USA CAN/CSA-22.2, No. 61010-1 |



GENERAL SPECIFICATIONS

| Model | TIBSC-A3 | TIBSC-A3 | TIBSC-A3 | TIBSC-A3 |
|---|---|---------------------|---------------------|---------------------|
| Normal size | 3 feet | 4 feet | 5 feet | 6 feet |
| Internal Dimension (W*D*H,mm) | 1000*600*690 | 1300*600*690 | 1600*600*690 | 1800*600*690 |
| External Dimension (W*D*H,mm) | 1470*790*2100 | 1770*790*2100 | 2070*790*2100 | 2270*790*2100 |
| Internal work area | 0.60 m ² | 0.78 m ² | 0.96 m ² | 1.08 m ² |
| Number of glove port | HONEYWELL Butyl gloves 8" | | | |
| Glove type | 250m3/h | 350m3/h | 450m3/h | 500m3/h |
| Initial air volume | ≥0.05m/s | | | |
| Air Volume processing | -120PA | | | |
| Negative work zone pressufe | G4 Filter | | | |
| Prefilter | Standard HEPA filter, ≥99.995%(@0.3µm) Optional for ULPA filter, ≥99.9995% | | | |
| ULPA Filter Typical | NSF/ANSI 49 | | | |
| Efficiency (Downflow, 1st Exhaust, 2nd Exhaust) | ≤ 65dB(A) | | | |
| Production Standard | Electrostatic Powder Spraying Cold Rolled Steel | | | |
| Noise level (NSF/ANSI 49) | Stainless steel Type 304 | | | |
| Main body material | Stainless steel Type 304 | | | |
| Work Zone | 24.5W | 31W | 36W | 36W |
| LED lamp | 20W | 30W | 40W | 40W |
| UV lamp (Work Zone) | 8W | | | |
| UV lamp (Pass Box) | ≥650Lx | | | |
| Illumination 1) | ≥650Lx | | | |
| Max.Power (with socket) | 2.1 KVA | 2.3 KVA | 2.5 KVA | 2.5 KVA |
| Rated Power | 1 KVA | 1.2 KVA | 1.4 KVA | 1.4 KVA |
| Voltage | 220~240V/50HZ,single phase | | | |
| Net weight | 350KG | 420KG | 490KG | 540KG |
| Gross weight | 430KG | 520KG | 600KG | 620KG |



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