



## BIOSAFETY CABINETS

**Bilser** has been developing R&D studies and manufacturing in the field of biosafety.

As a result of many years of experience, Bilser manufactures Biosafety Cabinets, Laminar Air Flow Cabinets, PCR Cabinets, UV Cabinets, Macroscopic Cabinets, Fume Hood, Semi-Automatic Infusion Chemotherapy Systems, Fully Automatic Infusion Chemotherapy Systems and Robotic Infusion Chemotherapy Systems.

In Biosafety cabinets applications, Bilser offers the widest range of models in the world, from class I to biosafety systems integrated with robotic systems.

Bilser, designs and produces systems according to all relevant standards, especially ISO EN 12469 and ISO EN 14644-1 Norms. Bilser, designs biosafety solutions for your needs. With Robotic, Full-automatic, Semi-automatic infusion systems.

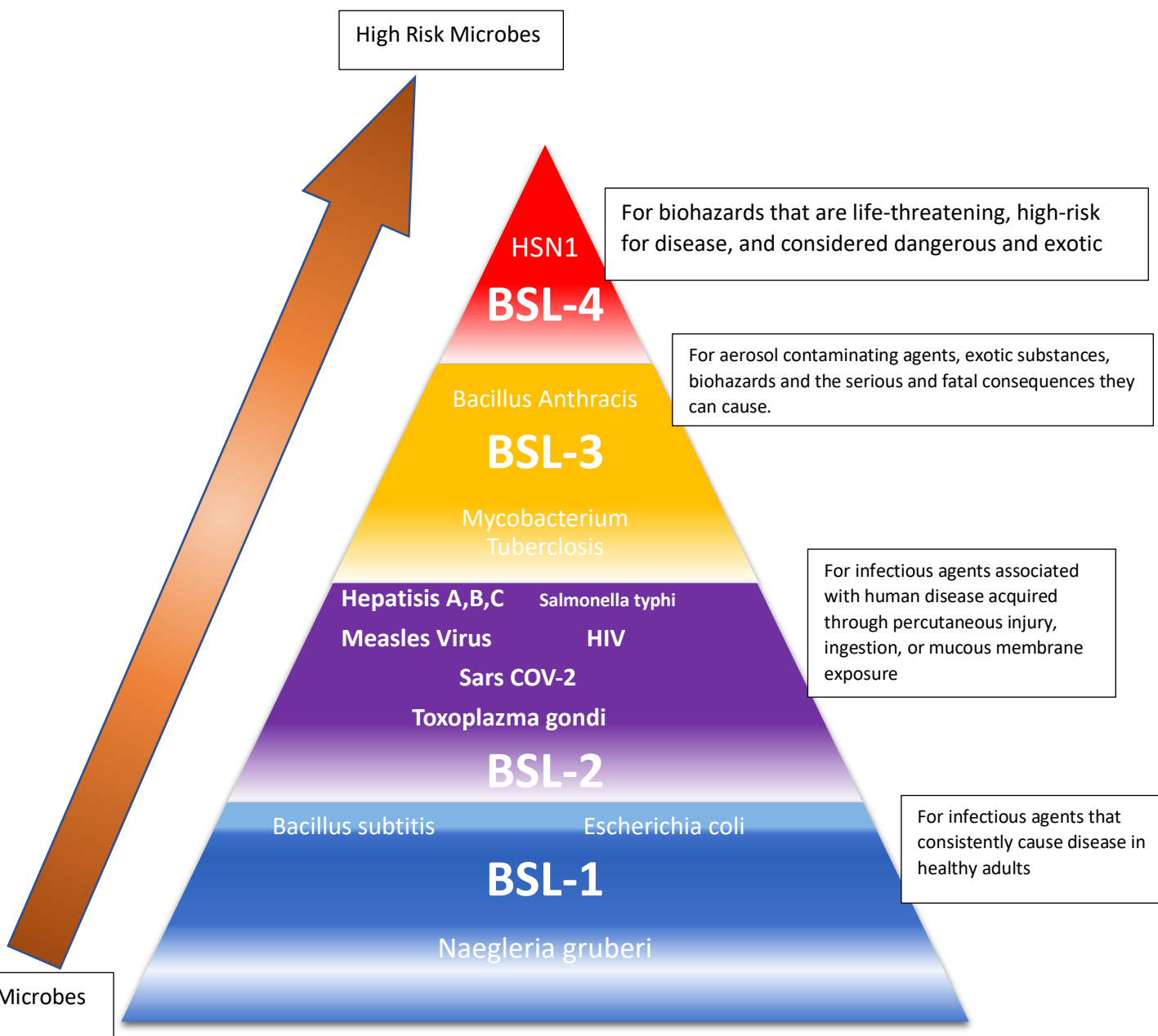


EN 12469, ISO 14001:2015 , ISO 9001:2015  
ISO 13485:2016 , TS 12426, CE,

## Determination of Biosafety Level

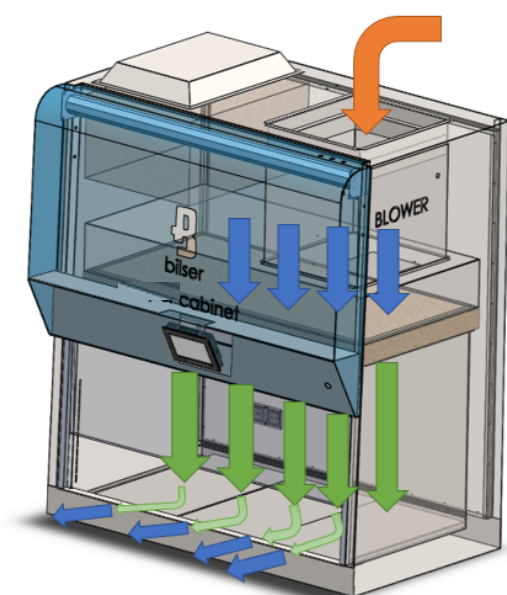
Biosafety Level from 1 to 4, created by the Centers for Disease Control (CDC) and the National Institutes of Health (NIH) and it is a combination of laboratory applications and techniques, safety equipments and facilities. All of these levels are appropriate for the biohazard and laboratory activity which created by agents.

**Biosafety Cabinet selections that comply with Biosafety Risk Levels explains in tables.**



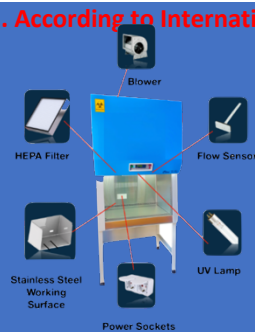
| Protection Type   | Biosafety Cabinet Selection                        |
|---|--|
| Personnel Protection, Microorganisms in BSL 1-3   | Laminar Flow, Class I, Class II, Class III         |
| Personnel Protection for BSL 4, Microorganisms, Glove Box Type Laboratories                 | Class III  |
| Personnel Protection for BSL 4, Microorganisms  | Class II, Class III                                |
| Product Protection  | Class II, Class III                                |
| Volatile radionuclide/chemical shielding, which must be recirculated to the work area       | Class II Type B1, Class II Type A2                 |
| Volatile radionuclide/chemical shielding, which should not be recirculated to the work area | Class I, Class II Type B2, Class III, Laminar Flow |

## Laminar Flow



Laminar flow cabinets provide an controlled work surface for applications requiring a sterile work space whereas contaminant access is being prevented by a constant filtered airflow across the surface.

● Contaminated working area air
 ● Contaminated room air
 ● HEPA filtered air



Cabinet Technical Details

| Model                             |                       | ELiT BSC 70  | ELiT BSC 90    | ELiT BSC 120   | ELiT BSC 140   | ELiT BSC 180   |
|-----------------------------------|-----------------------|--|----------------|----------------|----------------|----------------|
| External dimensions (mm) (WXHxD)  |                       | 750x1500x880   | 1050x1500x880  | 1350x1500x880  | 1580x1500x880  | 1950x1500x880  |
| Internal dimensions(mm) (WXHxD)   |                       | 580x670x620  | 880x670x620    | 1180x670x620   | 1480x750X600   | 1780x670x620   |
| Working window opening (mm)       |                       | 200  |                |                |                |                |
| Maximum window opening (mm)       |                       | 500  |                |                |                |                |
|                                   |                       | Vertical clean airflow directed downward onto the cabinet work zone  |                |                |                |                |
| Average inflow air velocity (m/s) |                       | 0.50 (100 fpm) with High capacity blower   |                |                |                |                |
| Filter details                    |                       | Replacable pre-filter for tapping large Particles  |                |                |                |                |
|                                   |                       | Exhaust and intake HEPA Filters  |                |                |                |                |
|                                   |                       | (H14 class, 99.99 % MPPS efficiency against 0.3 µm or larger particles HEPA type<br>or %99,999 MPPS efficiency ULPA Filter (Optional)) |                |                |                |                |
| Average Sound Level (dBA)         |                       | < 65   |                |                |                |                |
| Average Illuminance Level (lux)   |                       | 1000 lux light intensity   |                |                |                |                |
| Control Panel                     |                       | control for time , set-up and monitoring air velocity via sensors  |                |                |                |                |
| Cleaning and Sterilization        |                       | Stainless steel filter screen, UV lights in work Area  |                |                |                |                |
| Alarm Systems                     |                       | Audible and Visual alarm system for compromised airflow, filter life, UV life  |                |                |                |                |
| Cabinet Material Type             | Exterior Body         | Stainless Steel with Anti-Corrosion Coating  |                |                |                |                |
|                                   | Interior Work Surface | Good quality stainless steel (Type of 304)   |                |                |                |                |
|                                   | Front Panel           | Adjustable angled transparent front panel with secure gasket and seal  |                |                |                |                |
| Accessories                       |                       | 2 EU Standard sockets for electrical devices in workspace area ,<br>Compatible stand for installation                                  |                |                |                |                |
| Net Weight (kg)                   |                       | 175  | 230            | 260            | 330            | 400            |
| Shipping weight (kg)              |                       | 190  | 245            | 275            | 345            | 415            |
| Shipping dimensions(mm)           |                       | 950x1650x1180  | 1250x1650x1180 | 1500x1650x1180 | 1800x1650x1180 | 2100x1650x1180 |
| Power Supply                      |                       | 220V ±10% , 50/60 Hz   |                |                |                |                |