



BIOSAFETY CABINET

Biosafety Cabinet

A Class II Biosafety cabinet is a specialized laboratory enclosure engineered to provide simultaneous protection for the operator, the work sample, and the surrounding environment. The ToronSafeCab™ series utilizes advanced HEPA filtration—retaining ≥ 99.995% of particles—to create an ISO Class 5 sterile work zone.

The series is divided into two primary configurations:

- Type A2 (ToronSafeCab™ S): Recirculates approximately 70% of HEPA-filtered air while exhausting 30%, making it the most versatile choice for standard biological research.
- Type B2 (ToronSafeCab™ TE): A total-exhaust system that expels 100% of air through a hard-duct connection, specifically designed for applications involving volatile toxic chemicals or radionuclides.

Application

The ToronSafeCab™ Biosafety cabinet series is suitable for a wide range of BSL-1 and BSL-2 applications:

- Microbiology & Cell Culture: Sterile handling of biological agents and pathogens.
- Pharmaceutical & Clinical: Aseptic drug preparation, chemotherapy compounding, and specimen processing.
- Molecular Biology: PCR setup and nucleic acid research.
- Specialized Research: Radioisotope handling, tissue engineering, and environmental microbial testing.

Product Table Comparison

Feature	ToronSafeCab™ S Series	ToronSafeCab™ TE Series
Best For	Versatility & Sterile Research: Ideal for standard microbiology and sterile product protection.	Toxic & Volatile Safety: Essential when working with volatile chemicals or radionuclides.
Cabinet Type	Class II Type A2	Class II Type B2

Feature	ToronSafeCab™ S Series	ToronSafeCab™ TE Series
Airflow Configuration	70% Recirculation / 30% Exhaust	100% Total Exhaust
Exhaust Requirement	Recirculates to room or canopy duct	Hard-duct to building HVAC required
Inflow Velocity	0.55 m/s	
Internal Material	SUS304 Stainless Steel	SUS304 Stainless Steel

Why Choose the ToronSafeCab™ Series for Your Biosafety Cabinet?

Selecting a ToronSafeCab™ Biosafety cabinet ensures your laboratory meets the highest international safety standards, including NSF/ANSI 49 and EN 12469.

- **Intelligent Constant-Wind-Speed Technology:** High-performance sensors automatically adjust blower output to compensate for filter loading, maintaining safe air velocities throughout the filter's life.
- **Superior Ergonomics:** A 10-degree tilted front window reduces operator fatigue during long procedures, while the split-style modular design allows for easy transport and positioning.
- **Advanced Control Systems:** A full-color HD LCD display provides real-time monitoring of inflow/downflow speeds, filter lifespan, and active alarms for full situational awareness.
- **Enhanced Decontamination:** Features include programmable UV sterilization with scheduling functions and a removable brushed stainless steel work surface for thorough autoclave sterilization.
- **Robust Compliance:** Designed in conformance with WHO guidelines and CE marking for electrical and biological safety.



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