

INTRODUCTION

The Class II Biological Safety Cabinet is mainly used for handling pathogenic biological samples or for applications that require a sterile work zone.

This equipment is designed to have: an inflow to protect the operator, an ULPA/HEPA-filtered downflow which creates an ISO Class 3 work surface and prevents cross-contamination to protect the sample, and an ULPA/HEPA-filtered exhaust to protect the environment. These cabinets are further classified by 2 standards: EN 12469:2000 and NSF/ANSI 49.



EN12469

EN 12469:2000 Biotechnology Performance criteria for microbiological safety cabinets is the new harmonized European standard for microbiological safety cabinets, published by CEN, the European Committee for Standardization. This standard classifies BSCs into Class I, Class II, and Class III.



The NSF International (formerly The National Sanitation Foundation) Biological Safety Cabinetry Program was initiated during the 1970's at the request of the regulatory community, including the Centers for Disease Control, National Institutes of Health, and the National Cancer Institute. This standard further classified Class II Biosafety Cabinets according to subtypes based on air circulation: Class II Type A1, Class II Type A2, Class II Type B1, and Class II Type B2.

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Esco Class II Biological Safety Cabinets



LA2-4S_G4
Class II Type A2 BSC

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CLASS II BIOLOGICAL SAFETY CABINETS

Streamline® (E-series) G4 Class II BSC

- Single piece internal wall
- Dimmable LED lighting system
- Centurion touchscreen controller
- S-Series: Single-piece work tray, stainless steel sidewalls
- E-Series: Multi-piece work tray, glass sidewalls
- Available width sizes: 4 ft, and 6 ft



Model: SC2-E G4



Airstream® (E-series) G4 Class II BSC

- Single piece internal wall
- Dimmable LED lighting system
- Centurion touchscreen controller
- Standby mode feature
- S-Series: Single-piece work tray, stainless steel sidewalls
- E-Series: Multi-piece work tray, glass sidewalls
- Available width sizes: 2 ft, 3 ft, 4 ft, 5 ft, and 6 ft



Model: AC2-E G4



Airstream® Gen 3 Class II BSC (Dual blower)

- Equipped with two DC ECM blowers for redundant system that provides protection in case of a power failure
- Dual Exhaust filters
- Sentinel™ Gold Microprocessor controller
- Low noise level
- Options:
 - (G-Series) Glass side walls, multi-piece work tray
 - (D-Series) Stainless steel side walls, single-piece work tray
- Available width sizes: 4 and 6 ft



Model: AC2-D



Airstream® Plus Class II BSC (Dual blower)

- Equipped with two DC ECM blowers for up to 70% energy savings
- Motorized sash window
- Stainless steel and glass hybrid walls
- LED lighting system
- Sentinel™ Gold Microprocessor controller
- Optional H₂O₂ Injection Port
- Options:
 - S-Series: Single-piece work tray, stainless steel sidewalls
 - E-Series: Multi-piece work tray, glass sidewalls
- Available width sizes: 3, 4, 5, and 6 ft



Model: AC2-E-TU



CLASS II TYPE A2 BIOLOGICAL SAFETY CABINETS

Airstream® NS (S-series) G4 Class II Type A2

- Single piece internal wall
- Dimmable LED lighting system
- Centurion touchscreen controller
- Standby Mode
- S-Series: Single-piece work tray, stainless steel sidewalls
- E-Series: Multi-piece work tray, glass sidewalls
- Available width sizes: 2 ft, 3 ft, 4 ft, 5 ft, and 6 ft



Model: AC2-NS G4



Labculture® G4 Class II Type A2 BSC

- Single piece internal wall
- Centurion touchscreen controller
- Available in three sash opening models: 8", 10", and 12"
- Dimmable LED light
- With USB port, cable port
- Single piece, stainless steel worktop
- Low power consumption
- Available width sizes: 3 ft, 4 ft, 5 ft, and 6 ft



Model: LA2 G4



Airstream® G4 Reliant Class II Type A2 BSC

- LED lighting system
- Default cable port
- Single piece, stainless steel worktop
- Low power consumption
- Rocker switches and pressure gauge
- Available width sizes: 3 ft, 4 ft, 5 ft, and 6 ft



Model: AR2 G4



CLASS II TYPE B1 BIOLOGICAL SAFETY CABINET

Labculture® Class II Type B1 BSC

- ISO Class 3 work zone
- Equipped with DC ECM blower for up to 70% energy savings
- Dynamic Chamber™ prevents contaminants from escaping
- Sentinel™ Gold Microprocessor controller
- Angled front 8.5° to optimize user comfort and ergonomics
- Available size: 4 ft



Model: LB1-B-E



CLASS II TYPE B2 BIOLOGICAL SAFETY CABINETS

Airstream® Class II Type B2 BSC (Total Exhaust)

- Dynamic Chamber™ plenum design delivers quiet, uniform airflow
- Double-wall construction with negative pressure plenum
- Fail-safe system
- Low noise level
- Available sizes: 3, 4, 5, and 6 ft



Model: AB2



Labculture® G4 Class II Type B2 BSC (Total Exhaust)

- Centurion touchscreen controller
- Dimmable LED light
- With USB port, cable port
- Single piece, stainless steel worktop
- Low power consumption
- Available width sizes: 3 ft, 4 ft, 5 ft, and 6 ft



Model: LB2 G4



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