

# Logic® Class II, Type A2 Biosafety Cabinets

## Features & Benefits

### Class II Airflow

Provides Personnel, Product, and Environmental protection from hazardous pathogens and particles.

### Type A2

- Approximately 70% Recirculated, 30% Exhausted
- Recirculating or Canopy Ducted

### NSF 49 Listed

Each Labconco Class II BSC exceeds globally recognized performance and construction requirements.

### Unitized Construction

A welded 304 stainless steel cabinet hull, dished work surface, and solid steel plenum are built to last.

### Long-Life HEPA Filters

Dual filters are 99.99+% efficient (at 0.3 microns), providing ISO Class 5 or better air.

### Sustainable Design

Each cabinet is constructed with more than 70% recycled materials. An ECM motor and LED lighting consume as little as 150 watts.

### Inclination Technology

A sloped sash, curved airfoil that functions as armrest, large working area, and eye-level display maximize comfort.

### Logic OS

Conveniently displays all cabinet information on a bright 5" line-of-sight touchscreen.

### Constant Airflow Profile™ (CAP)

Continuously monitors and maintains safe inflow and downflow to protect users and samples.

### Advanced ECM Blower

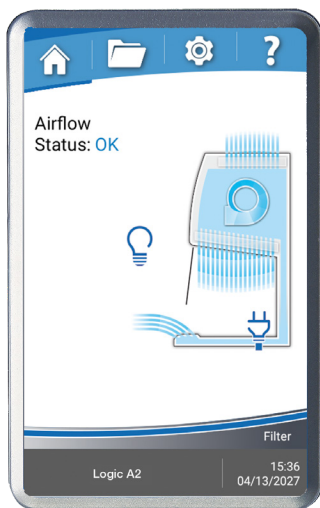
Combined with CAP™ technology, reduces energy consumption and noise, improving user comfort and safety.

### Mag-Zone™ Area

Unique storage area organizes your BSC and improves cleanability. Holds multiple accessories for pipettes, biohazard waste, and more.

### Effortless Disinfection

304 stainless steel interior withstands routine disinfection. Coved corners and dished work surface are easily cleanable.



## Logic OS Information Center

### Touchscreen Display

Large 5" screen clearly visualizes cabinet conditions for effortless monitoring of cabinet behaviors.

### Filter Life Indicator

Accurately displays remaining HEPA filter life. Alerts users at 20% and 10% before alarming at 0%.

### Airflow Status

Displays current status of airflow within cabinet for consistent confirmation of safety.

### Smart-Start™

Automatically start and stop your cabinet blower and lights by simply moving the sash.

### Night-Smart™

Keeps the cabinet interior clean between uses with minimal energy use.

### Alerts & Alarms

Large, clear visual and audible signals notify users of unsafe cabinet conditions.

### User Convenience

Logic OS includes a programmable experiment and UV light timer, data logging and a full certification menu.

### Data Logging & Connectivity

Export system data logs and records via USB, or connect to Logic OS remotely for 24/7 cabinet monitoring with Remote Communication Board accessory.

# Logic® Class II, Type A2 Biosafety Cabinets

## Ordering Information

### Catalog Number Configurator:

Use this key to configure the nine digit catalog number to order your Logic or Cell Logic Class II, Type A2 Biosafety Cabinet.



Select **CELL LOGIC PACKAGE(S)**. This is the second digit of your catalog number.

- 0 = None
- 2 = Temp-Zone. Fifth digit is 9 and sixth digit is 1
- 3 = Scope-Ready. Fifth digit is 9 and sixth digit is 1
- 4 = Temp-Zone and Scope-Ready. Fifth digit is 9 and sixth digit is 1

Select the **WIDTH** of your cabinet. This is the fourth digit of your catalog number.

- 3 = 3'    4 = 4'    5 = 5'    6 = 6'

Select the **SASH OPENING HEIGHT**. This is the fifth digit of your catalog number.

- 1 = 10" (25.4 cm)    2 = 12" (30.5 cm)
- 8 = 8" (20.3 cm)    9 = 9" (22.9 cm) - Cell Logic only

Select the **ACCESSORY PACKAGE** option. This is the sixth digit of your catalog number.

- 0 = None
- 1 = Includes factory-installed right-side service fixture, UV lamp and a Vacu-Pass™ Cord & Cable Portal on each side. Package standard on all Cell Logic models.

Select the **TELESCOPING BASE STAND** option. This is the seventh digit of your catalog number.

- 0 = None    1 = Included

Select the **ELECTRICAL CONFIGURATION** and **PLUG TYPE**. These are the eighth and ninth digits of your catalog number.

- 02 = 115V, 15/20A, 60 Hz, with plug for North America
- 12 = 230V, 50/60 Hz, with plug for North America
- 22 = 100V, 15/20A, 50/60 Hz, with plug for Japan
- 32 = 230V, 50/60 Hz, with Schuko plug
- 42 = 230V, 50/60 Hz, with plug for China/Australia
- 52 = 230V, 50/60 Hz, with plug for Great Britain (UK)
- 72 = 230V, 50/60 Hz, with plug for India

### Plug Configurations



115V, 15A  
for North America  
100V, 15A for Japan  
(3' and 4' widths)



115V, 20A  
for North America  
100V, 20A for Japan  
(5' and 6' widths)



230V  
for North America



230V  
Schuko



230V  
for China/Australia



230V  
for Great Britain (UK)



230V  
for India

### Technical Specifications

Nominal Width	Energy Requirements*		Watts				Shipping Weight	Shipping Weight with Stand
	100V or 115V	230V	8"	9"	10"	12"		
3'	12A	6A	150	158	165	195	621 lbs. (282 kg)	697 lbs. (316 kg)
4'	12A	6A	180	193	205	240	725 lbs. (329 kg)	808 lbs. (367 kg)
5'	16A	8A	205	238	270	340	862 lbs. (391 kg)	953 lbs. (432 kg)
6'	16A	8A	350	385	420	490	992 lbs. (450 kg)	1091 lbs. (495 kg)

\* Dedicated, non-GFI outlet required. Acceptable voltage range +/-10% nominal value.

# Logic® Class II, Type A2 Biosafety Cabinets

## Specifications



### All models feature:

- Long-life DC Electronically Commutated Motor (ECM)
- \* Constant Airflow Profile™ (CAP) airflow monitoring system
- \* BalanceFlow™ plenum provides energy-efficiency and ultra-quiet operation\*
- \* Easy clean top cover that promotes even exhaust airflow from the top cover
- \* Mag-Zone™ area on interior right side manages storage challenges with Labconco Magnetic Mag-Zone accessories
- Intrinsically-safe negative pressure design
- Fully scannable 99.99+% supply and exhaust HEPA filters. 99.999% efficient ULPA filters or H14 HEPA filters also available
- \* Logic OS and 5" interior-mounted, line-of-sight touchscreen information center with:
  - Smart-Start™ System allows user-to start up and shut down cabinet functions by raising and lowering the sash
  - Night-Smart™ System for idling the blower when the sash is fully closed
  - Full operational maintenance and certification logs for detailed record keeping
  - Status line for alarm conditions and alerts to warn when filter life diminishes to 20% and 10% before alarming at 0%
  - Interval/elapsed timer for experiment monitoring
  - UV light timer (on models with UV)
  - Password protection for cabinet settings
  - 8 Languages
- Bright, glare-free LED lighting up to 180 foot-candles (1937 lux). Located outside the contaminated work area
- \* Curved, stainless steel inlet grill with waterfall design and Reserve-Air™ Secondary Airflow Slots
- \* Air-Wave™ Entry System at access opening to enhance containment

\* Labconco exclusive feature

- \* Contain-Air™ Negative Pressure Channel at top of sash to enhance containment
- \* Two electrical outlets. Flush mounted stainless steel cover with dampened hinges
  - 115V GFCI, double receptacles, maximum amperage draw 5A
  - 230V, single receptacles, maximum amperage draw 3A
- 10° angled, fully closing sash. 1/4" tempered safety glass with counterbalanced, anti-racking, easy-to-lift mechanism
- Unitized, pressure tested stainless steel interior. Optic White epoxy-coated steel exterior
- Removable towel catch located under work surface
- 8", 10", or 12" (20.3, 25.4, or 30.5 cm) working sash height
- \* 22.5" (57 cm) max. sash opening & 27.0" (69 cm) viewing height
- Removable, seamless type 304 stainless steel, dished work surface with lift out knobs
- Nominal inflow velocity of 105 fpm (0.53 m/sec)
- Nominal downflow velocity of 55 fpm (0.28 m/sec). 6' x 12" sash models nominal downflow velocity of 50 fpm (0.25 m/s)
- Approximately 70% air recirculation
- Noise level 60 dB (4ft 10" model)
- 10' (3 m) power cord with plug
- Six year warranty

### Models conform to the following standards:

- NSF/ANSI Standard 49 listed
- NSF/ANSI 49 compliant (Cell Logic models)
- ISO Class 5 (Grade A) per ISO 14644-1
- UL Standard 61010-1
- CAN/CSA 22.2 No. 61010-1
- CE/UKCA Mark (230V models)
- \* ADA-compliant

### Options include:

- Unassembled, NSF-approved, epoxy-coated steel non-welded telescoping base stand with leveling feet
- Accessory Package: UV lamp (254 nm), right-side service fixture with ball-type valve and right and left-side Vacu-Pass™ Cord & Cable Portal
- Ventus™ II Canopy Connection: See page 37
- Cell Logic Packages: See page 35

### All models require (not included):

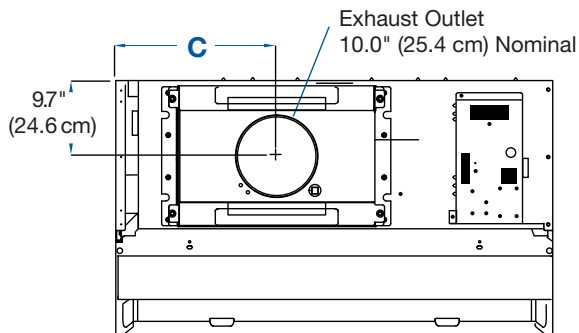
- Supporting base if non-welded stand option is not selected



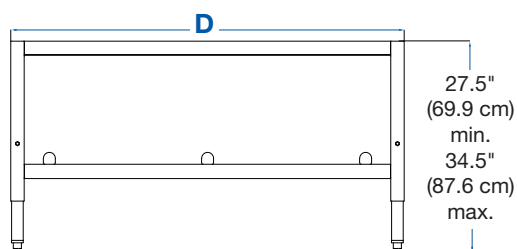
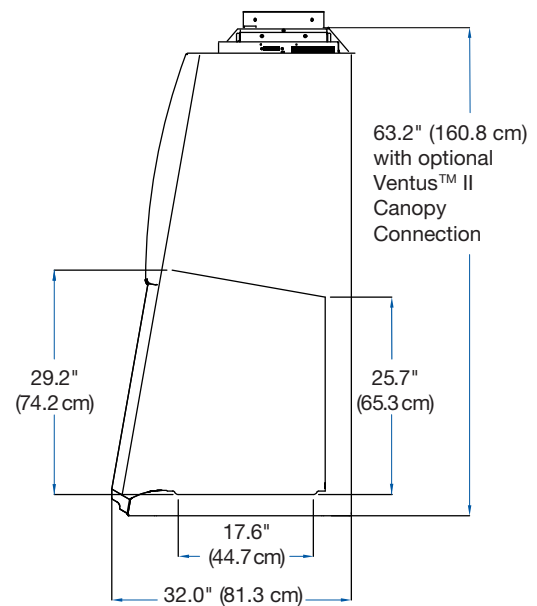
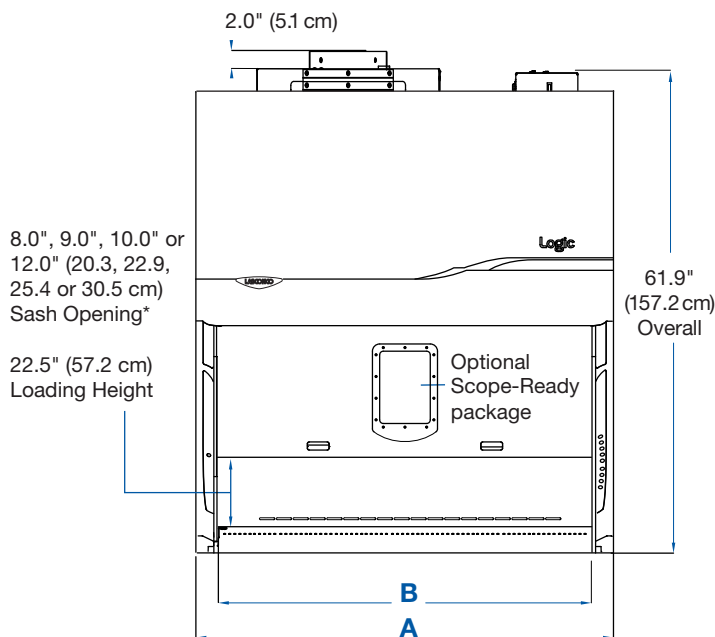
\*U.S. Patent Pending

# Logic® Class II, Type A2 Biosafety Cabinets

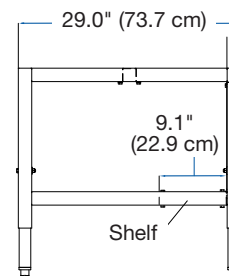
## Dimensional Data



Nominal Width	A	B	C	D
3'	42.4" (107.7 cm)	36.5" (92.7 cm)	14.5" (36.8 cm)	38.5" (97.8 cm)
4'	54.4" (138.2 cm)	48.5" (123.2 cm)	19.9" (50.5 cm)	50.5" (128.3 cm)
5'	66.4" (168.7 cm)	60.5" (153.7 cm)	26.8" (68.1 cm)	62.5" (158.8 cm)
6'	78.4" (199.1 cm)	72.5" (184.2 cm)	32.9" (83.6 cm)	74.5" (189.2 cm)



FRONT



SIDE

\*Sash opening working height varies. All Cell Logic Class II, Type A2's have a 9.0" working height. Remaining models have either an 8.0", 10.0" or 12.0" working height.

# Logic® Class II, Type B2 Biosafety Cabinets

## Features & Benefits

### Class II Airflow

Provides Personnel, Product, and Environmental protection from hazardous pathogens and particles.

### Type B2

- 100% Ducted (no recirculation)
- Requires dedicated ductwork and remote blower

### NSF 49 Listed

Each Labconco Class II BSC exceeds globally recognized performance and construction requirements.

### Unitized Construction

A welded 304 stainless steel cabinet hull, dished work surface, and solid steel plenum are built to last.

### Long-Life HEPA Filters

Dual filters are 99.99+% efficient (at 0.3 microns), providing ISO Class 5 or better air.

### Sustainable Design

Each cabinet is constructed with more than 70% recycled materials. An ECM motor and LED lighting consume as little as 105 watts.

### Inclination Technology

A sloped sash, curved airfoil that functions as armrest, large working area, and eye-level display maximize comfort.

### Logic OS

Conveniently displays all cabinet information on a bright 5" line-of-sight touchscreen center.

### Seamless Exhaust

Integrated board ensures easy communication between cabinet and remote blower. Software directly communicates with Labconco Spectrum Blower.

### Advanced ECM Blower

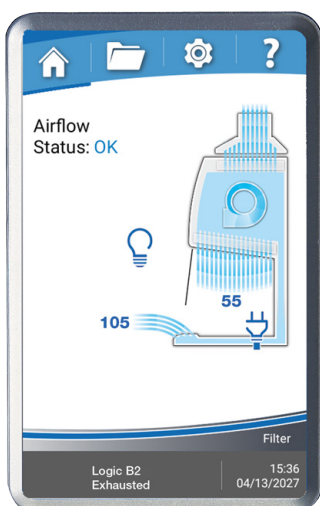
Combined with CAP™ technology, reduces energy consumption and noise, improving user comfort and safety.

### Mag-Zone™ Area

Unique storage area organizes your BSC and improves cleanability. Holds multiple available accessories for pipettes, biohazard waste, and more.

### Effortless Disinfection

304 stainless steel interior withstands routine disinfection. Covered corners and dished work surface are easily cleanable.



## Logic OS Information Center

### Touchscreen Display

Large 5" screen clearly visualizes cabinet conditions for effortless monitoring of cabinet behaviors.

### Filter Life Indicator

Accurately displays remaining HEPA filter life. Alerts users at 20% and 10% before alarming at 0%.

### Airflow Status

Displays current status of airflow within cabinet for consistent confirmation of safety. Displays realtime inflow and downflow values.

### Smart-Start™

Automatically start and stop your cabinet blower and lights by simply moving the sash.

### Alerts & Alarms

Large, clear visual and audible signals notify users of unsafe cabinet conditions.

### User Convenience

Logic OS includes a programmable experiment and UV light timer, data logging and a full certification menu.

### Data Logging & Connectivity

Export system data logs and records via USB, or connect Logic OS remotely for 24/7 cabinet monitoring.

# Logic® Class II, Type B2 Biosafety Cabinets

## Ordering Information

### Catalog Number Configurator:

Use this key to configure the nine digit catalog number to order your Logic or Cell Logic Class II, Type B2 Biosafety Cabinet.

3  3  8

Select the **CELL LOGIC PACKAGE(S)**. This is the second digit of your catalog number.

0 = None

2 = Temp-Zone package. Sixth digit is 1

3 = Scope-Ready package. Sixth digit is 1

4 = Temp-Zone and Scope-Ready packages.  
Sixth digit is 1

Select the **WIDTH** of your cabinet. This is the fourth digit of your catalog number.

4 = 4'    6 = 6'

Select the **ACCESSORY PACKAGE** option: This is the sixth digit of your catalog number.

0 = None

1 = Includes factory-installed right-side service fixture, UV lamp and a Vacu-Pass™ Cord & Cable Portal on each side. Package standard on all Cell Logic models.

Select the **TELESCOPING BASE STAND** option. This is the seventh digit of your catalog number.

0 = None

1 = Included

Select the **ELECTRICAL CONFIGURATION** and **PLUG TYPE**. These are the eighth and ninth digits of your catalog number.

02 = 115V, 15A, 60 Hz, with plug for North America

12 = 230V, 50/60 Hz, with plug for North America

22 = 100V, 15A, 50/60 Hz, with plug for Japan

32 = 230V, 50/60 Hz, with Schuko plug

42 = 230V, 50/60 Hz, with plug for China/Australia

52 = 230V, 50/60 Hz, with plug for Great Britain (UK)

72 = 230V, 50/60 Hz, with plug for India

### Plug Configurations



115V, 15A  
for North America  
100V, 15A for Japan



230V  
for North America



230V  
Schuko



230V  
for China/Australia



230V  
for Great Britain (UK)



230V  
for India

### Exhaust Requirements & Shipping Weights

Nominal Width	Exhaust Volume Initial Static Pressure*	Energy Requirements** (Dedicated, non-GFI outlet required)		Watts	Shipping Weight	Shipping Weight with Stand
		100V or 115V	230V			
4'	818 CFM @ 1.8" w.g.	12A	6A	105	728 lbs. (330 kg)	811 lbs. (368 kg)
6'	1382 CFM @ 2.5" w.g.	12A	6A	359	992 lbs. (450 kg)	1091 lbs. (495 kg)

\* Concurrent Balance Values (CBV) obtained via Pitot tube traverse of exhaust duct. 4' units start at 1.8" w.g. and 6' units start at 2.5" w.g. Static pressure will increase as filters load. Design exhaust system to accommodate 3.5-4" w.g. to account for filter loading.

\*\*Acceptable voltage range +/-10% nominal value.



# Logic® Class II, Type B2 Biosafety Cabinets

## Specifications



### All models feature:

- 100% exhausted design for work involving high volumes of volatile chemicals
- \* Long-life DC Electronically Commutated Motor (ECM)
- \* BalanceFlow™ plenum provides energy-efficiency and ultra-quiet operation.\*
- Intrinsically-safe negative pressure design
- \* Mag-Zone™ area on interior right side manages storage challenges with Labconco Magnetic Mag-Zone accessories
- \* Constant Airflow Profile™ (CAP) airflow monitoring system
- \* Air-Wave™ Entry System at access opening to enhance containment
- \* Contain-Air™ Negative Pressure Channel at top of sash to enhance containment
- \* Includes airflow sensor to display inflow and downflow on display
- 99.99+% efficient supply and exhaust HEPA filters. 99.999% efficient ULPA filters or H14 HEPA filters also available
- Logic OS and 5" interior-mounted, line-of-sight touchscreen information center with:
  - Smart-Start™ System allows user to start up and shut down cabinet functions by raising and lowering the sash
  - Full operational maintenance and certification logs for detailed record keeping
  - Status line for alarm conditions and alerts to warn when filter life diminishes to 20% and 10% before alarming at 0%
  - Interval/elapsed timer for experiment monitoring
  - UV light timer (on models with UV)
  - Password protection for cabinet settings
  - 8 Languages

\* Labconco exclusive feature

- Bright, glare-free LED lighting up to 180 foot-candle (1937 lux). Located outside the contaminated work area
- 10° angled, fully closing sash. 1/4" tempered safety glass sash with counterbalanced, anti-racking, easy-to-lift mechanism
- \* Curved, stainless steel inlet grill with waterfall design and Reserve-Air™ Secondary Airflow Slots
- Removable, seamless type 304 stainless steel, dished work surface with lift out knobs
- \* Two electrical outlets. Flush mounted stainless steel cover with dampened hinges.
  - 115V GFCI, double receptacles, maximum amperage draw 5A.
  - 230V, single receptacles, maximum amperage draw 3A.
- Unitized, pressure tested stainless steel interior. Optic White epoxy-coated steel exterior
- Removable towel catch located under work surface
- 8" (20.3 cm) working sash height
- \* 22.5" (57 cm) max. sash opening & 27.0" (69 cm) viewing height
- Airtight damper with 10" (25.4 cm) nominal round connection
- Noise level <67 dBA
- Nominal inflow velocity of 105 fpm (0.53 m/sec)
- Nominal downflow velocity of 55 fpm (0.28 m/sec)
- 10' (3 m) power cord with plug
- Six year warranty

### Models conform to the following standards:

- CAN/CSA 22.2 No. 61010-1
- UL Standard 61010-1
- NSF/ANSI Standard 49 listed
- NSF/ANSI 49 compliant (Cell Logic models)
- CE/UKCA Mark (230V models)
- ISO Class 5 (Grade A) per ISO 14644-1
- \* ADA-compliant

### Options include:

- Unassembled, NSF-approved, epoxy-coated steel, non-welded telescoping base stand with leveling feet
- Accessory Package: UV lamp (254 nm), right-side service fixture with ball-type valve and right and left-side Vacu-Pass™ Cord & Cable Portal
- Cell Logic Packages: See page 35

### All models require (not included):

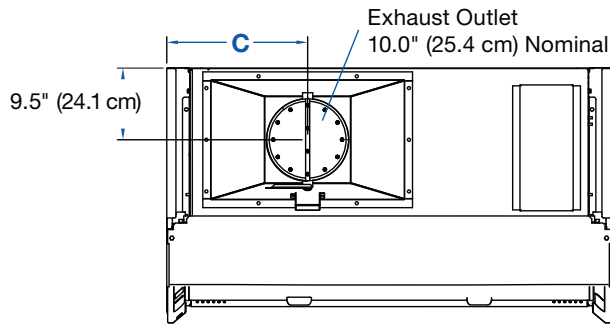
- Dedicated ductwork and remote blower required for each Type B2 BSC per CETA CAG-007: See page 36
- Supporting base if non-welded stand option is not selected

\*U.S. Patent Pending



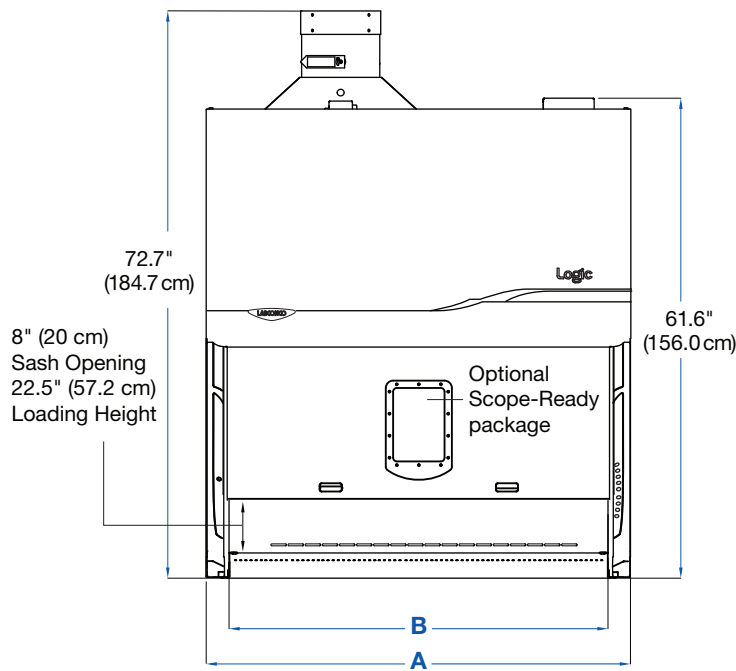
# Logic® Class II, Type B2 Biosafety Cabinets

## Dimensional Data

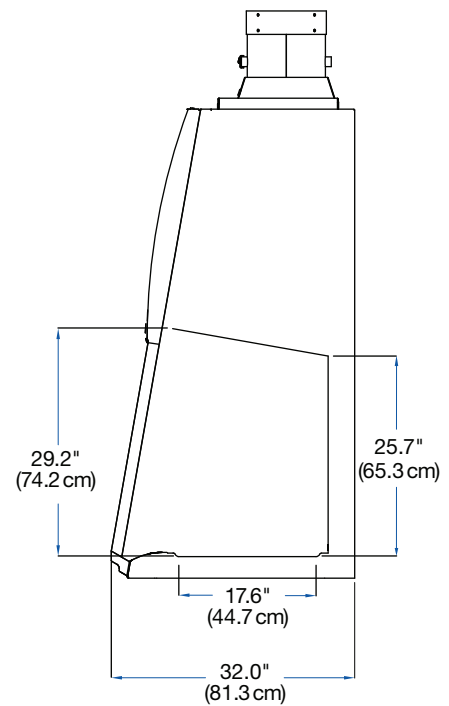


TOP

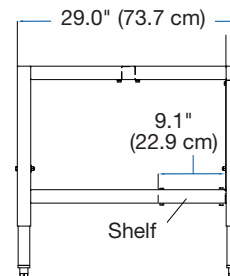
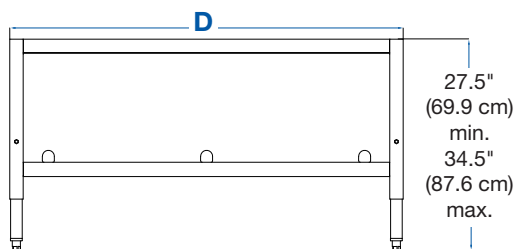
Nominal Width	A	B	C	D
4'	54.3" (137.9 cm)	48.5" (123.2 cm)	17.2" (43.7 cm)	50.5" (128.3 cm)
6'	78.3" (198.9 cm)	72.5" (184.2 cm)	28.2" (71.6 cm)	74.5" (189.2 cm)



FRONT



SIDE



\*Loading height with Bag-In/Bag-out Package is 11.7" (29.7 cm).