

Reflection® BSC (Bio-Safety Cabinet) Specifications



Seamless integration of the Reflection®, the first highly automated parallel sorting instrument, into the world class Baker SterilGARD® III Advance Biological Safety Cabinet, with the following features:

- Excellent user access. Ample usable work surface for pre- and post-sort sample handling in a true BSC environment.
- Modular design with electronic, pneumatic, optical and laser components residing outside the BSC, non-invasive to sample integrity and easily serviceable.
- Microbiologically performance tested by The Baker Company Inc. to insure personnel and containment protection.

6', Class II, Type A2, Vertical Laminar Flow Bench Model

- Work area size (W x D x H): 70" x 24⁵/₈" x 27¹/₃₂" (usable work surface: 20¹/₈" diameter)
- UniPressure™ Preflow air management system; innovative telescoping plenum provides direct seal of HEPA filter to full perimeter of plenum, simplifying filter changes and decontamination while increasing uniformity of airflow through supply filter
- High velocity return air slots along top and side edges of viewscreen access openings
- One piece stainless steel workarea with radiused corners for ease of cleaning; straight backwall and low-profile drain pan
- Double-wall, all-metal, negative pressure plenums completely surround work area to prevent contaminated air from entering lab
- Large worksurface measuring 20¹/₈" from front to back
- High visibility viewscreen slanted 10° from vertical; constructed of ¼" safety plate glass; opens to 19³/₄" for equipment loading
- StediVOLT™ - voltage compensating motor speed controller
- High capacity, low resistance supply and exhaust HEPA filters last an average of 7 to 10 years due to motor/blower combination

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6', Class II, Type A2, Vertical Laminar Flow Bench Model (continued)

- One petcock and one pre-piped penetration exiting bottom of cabinet located on the right hand side; additional petcocks and pre-piped penetrations can be purchased at time of order
- Intelligent microprocessor-based control system
- Easy-view controls in moisture-proof membrane touchpad positioned at eye-level for seated user
- Visual/audible sash alarms encourage safe sash operating position
- Alarm mute for preset period during cabinet loading
- Controls ensure that the cabinet is fail safe by continuing to operate the blower on any powered system fault
- Two 115-volt duplex outlets, GFI protected, on each sidewall include a self-resetting circuit breaker and a trip warning light
- Solid-state electronic ballast reduces flicker and heat output; saves energy while increasing lamp life by 50%
- Momentum air curtain improves containment at access opening
- Magnehelic gauge to measure plenum air pressure
- System functions are monitored continuously by a built-in diagnostic test circuit
- Full external damper



Dimensions

- **Reflection Instrument Mounted in Bio-Safety Cabinet (W x D x H)**
 - ▶ 78 x 46 x 85 (inches)
 - ▶ 198 x 117 x 216 (cm)
- **DPA (Digital Processing Assembly) (W x D x H)**
 - ▶ 30 x 36 x 32 (inches)
 - ▶ 76 x 91 x 81 (cm)
- **FDA (Fluorescence Detection Assembly) (W x D x H)**
 - ▶ 27½ x 16½ x 13½ (inches)
 - ▶ 70 x 42 x 34 (cm)