



Standard of Care # 3: Biological Safety Cabinet (BSC) Service Criteria

Guideline

Revision Date: 10/13/21

Applies To: University of Michigan researchers needing to install, repair, or certify engineering control system.

Scope

Describes the categories of BSC service provided to University of Michigan departments and detail service charges and the conditions under which the fees would be applied.

Explains planned antiquation of BSCs recognizing that over time, all mechanical and electronic equipment becomes antiquated. Sometimes this is by manufacturer design or by other factors including technological advances or age of the components.

Planned Antiquation

Planned antiquation is the recognition that BSCs are typically supported by the manufacturers for 10 years and that plans must be made to replace this critical research equipment. The manifestations of this condition include increased maintenance costs due to expensive replacement parts, unavailable replacement parts, absence of information or technical support necessary for service, and concerns with structural safety or serviceability due to age or an unreliable/outmoded design. Any BSC manufactured over 10 years ago is potentially unserviceable.

EHS will maintain most BSCs for up to 10 years in the normal service category below. If you have concerns about the service category of your BSC or availability of replacement parts, please contact your EHS Biosafety Technician. You will need to have the unit's model and serial number.

Categories of Service

Normal, General Fund Customers

Regular annual certification and maintenance, including HEPA filter, motor/blower, speed controller changes, decontamination, and damper adjustments will be performed at no charge for BSCs under 10 years of age, with readily available parts. Departments will be charged for additional certifications beyond the annual certification as well as for decontaminations due to equipment moves or by request.

Normal, Non-General Fund Customers

Regular annual certification and maintenance, including HEPA filter, motor/blower, speed controller changes, decontamination, and damper adjustments will be performed according to the [Service Charges](#) section in this document on modern BSCs with readily available parts. Cost of replacement parts and filters will be billed including shipping.

Customers will be required to provide EHS with a short code to recharge for the services rendered in this category.

Recharge

When a BSC is no longer manufactured the replacement parts become more expensive and more difficult to obtain. Technical support and information necessary to service the unit is also less reliable. In these instances, EHS reserves the right to recharge General Fund customers in order to recoup excessive costs for maintaining antiquated equipment.

- BSCs over 10 years old are automatically placed in this category.
- Used BSCs transferred to U-M or purchased by General Fund units are expected to be in good operating condition upon arrival. Those that are not will be placed in the recharge category until they can pass certification.
- Customers will be required to provide EHS with a short code to recharge for the services rendered in this category.

No Service

As with all scientific equipment, BSCs will become obsolete. Indications of obsolete BSCs include; age, obsolete design, compromised structural integrity, inadequate identifying information including missing serial or model number, defunct manufacturer, unavailable or prohibitively expensive replacement parts or extended service time.

EHS will not service BSCs which are not listed by NSF International unless the manufacturer verifies that the BSC is based on listed designs and there are no functional differences. BSCs that require extraordinary measures to maintain certification will not be serviced. Also, EHS cannot certify as safe or effective any unit that has been modified, retrofitted, reengineered, or used in a manner that could affect containment or airflow that was not approved by the manufacturer and NSF International.

Warranty

BSCs from approved manufacturers typically come with a 4 year warranty. Customers will be asked to contact their sales representative to coordinate repair and certification of BSCs still under warranty. Contact EHS Biosafety for assistance in contacting or coordinating with the manufacturer.

EHS Technicians may be contacted by the manufacturer to perform warranty work. In these cases the manufacturer will be billed per EHS's "Standard of Care #5: Warranty Work".

Risk Management (Insurance)

BSCs damaged through sudden or accidental events fall into this category. The events must be reported to the UM Office of Risk Management Services and a claim made. Risk Management will determine if the claim is covered.

EHS will repair BSCs in this category per the standard service charges in section 4.0 plus additional charges for all parts, filters, and shipping costs.

Customers will be required to provide EHS with a short code to recharge for the services rendered in this category.

Service Charges

Service charges for non-general fund customers and unsupported Biological Safety Cabinets and Laminar Flow Hoods are as follows:

NOTE: Additional charges for replacement filters and parts will be applied.

SERVICE	FEE
Environment, Health & Safety Services	\$82.00 / hour
Biosafety Cabinets (BSC) Decontamination Fee	\$400.00 / fee
Laminar Flow Cabinet Certification Fee	\$100.00 / fee
Biosafety Cabinets Certification Fee	\$150.00 / fee
Motor Change Fee	\$200.00 / fee
Filter Change Fee	\$200.00 / fee

At the customer's request and with the approval of the Director of EHS, work can be scheduled for non-business hours and weekends. Set charges and/or hourly fees will be 50% higher for work during these hours.