



# Repair or Replace Your Old Biosafety Cabinet: Cost Analysis

A biological safety cabinet is essential in any laboratory as it protects personnel from biohazards while keeping samples free from contamination. Its maintenance and repairs are necessary to ensure safety and continued operations. Preventive maintenance is a schedule of planned service measures to prevent unexpected downtimes and failures through routine maintenance and early detection of problems. However, as equipment ages, the frequency of repairs will also generally increase. By knowing the maintenance cost of a BSC, it's more probable to know when it needs to be replaced with a new one.

## BSC REPLACEABLE PARTS



**TABLE 1. MAINTENANCE COST OF BSC OVER TIME**

No	Description of Task to Perform	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Recertification (annually)	X	X	X	X	X	X	X	X	X	X
2	Change UV light (where present)			X			X			X	
3	Change fluorescent light				X				X		
4	Change supply & exhaust filter					X					X
5	Gas decontamination					X					X
6	Change airflow sensor								X		
7	Change mainboard								X		
8	Change SMPS										X
9	Change membrane buttons										X
10	Change blower										X
Estimated Maintenance Cost in % (Yearly) over new BSC unit		5%	5%	5%	5%	25%	5%	5%	20%	5%	45%
Estimated Maintenance cost in % Cumulative (Yearly) over new BSC unit		5%	10%	15%	20%	45%	50%	55%	75%	80%	125%

In the tenth year of BSC usage, the estimated maintenance cost in % cumulative (yearly) will be 125% higher compared to the price of a new biosafety cabinet. This amount will have exceeded the cost of a new biological safety cabinet.

Aside from this, here are five (5) benefits of replacing your current biosafety cabinet that will allow you to maximize your comfort, productivity, and safety.

### 5 Benefits of Upgrading Your Old BSC

- Energy Efficiency
- Less Downtime for Service
- Ergonomics
- Higher Performance
- Enhanced User Features

**UPGRADE TO MODERN ESCO BIOSAFETY CABINETS FOR IMPROVED SAFETY AND COST SAVINGS.**

