

Appendix A

Biological Safety Cabinet (BSC) Placement Requirements for New Buildings and Renovations

Farhad Memarzadeh, Ph.D., P.E.

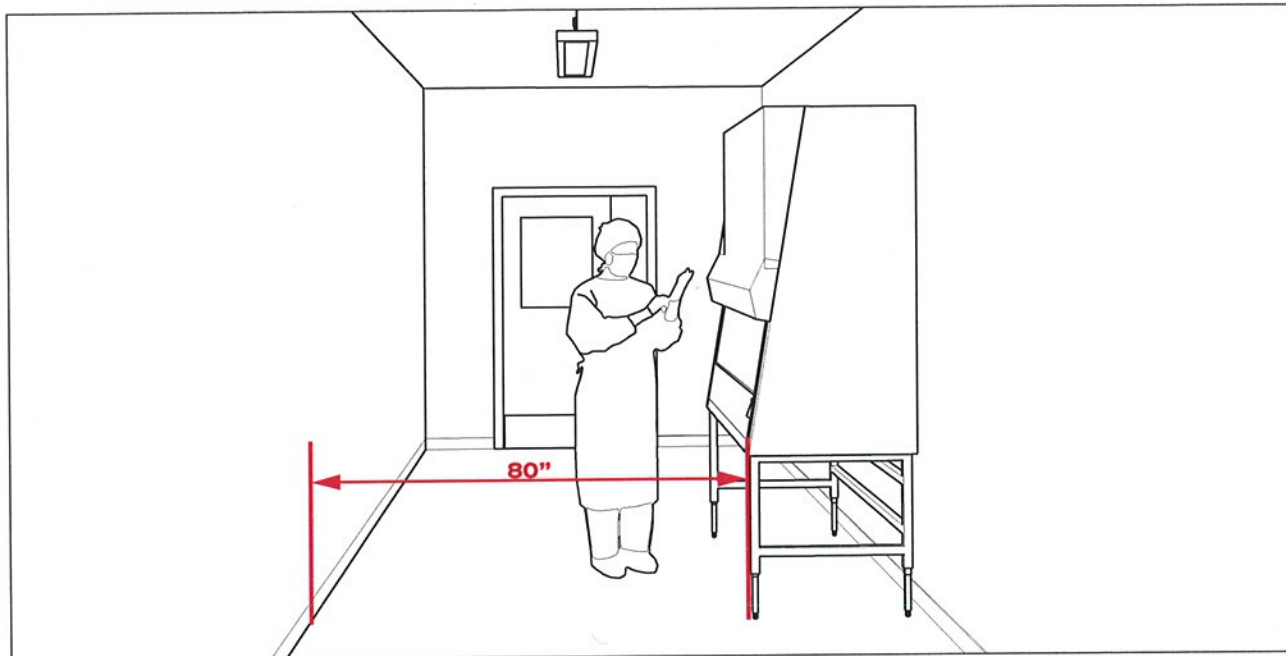
Division of Technical Resources
Office of Research Facilities
National Institutes of Health

References:

Microbiological Safety Cabinets: Recommendations for Cabinet Installation. British Standards Institution, BS 5726:2005.

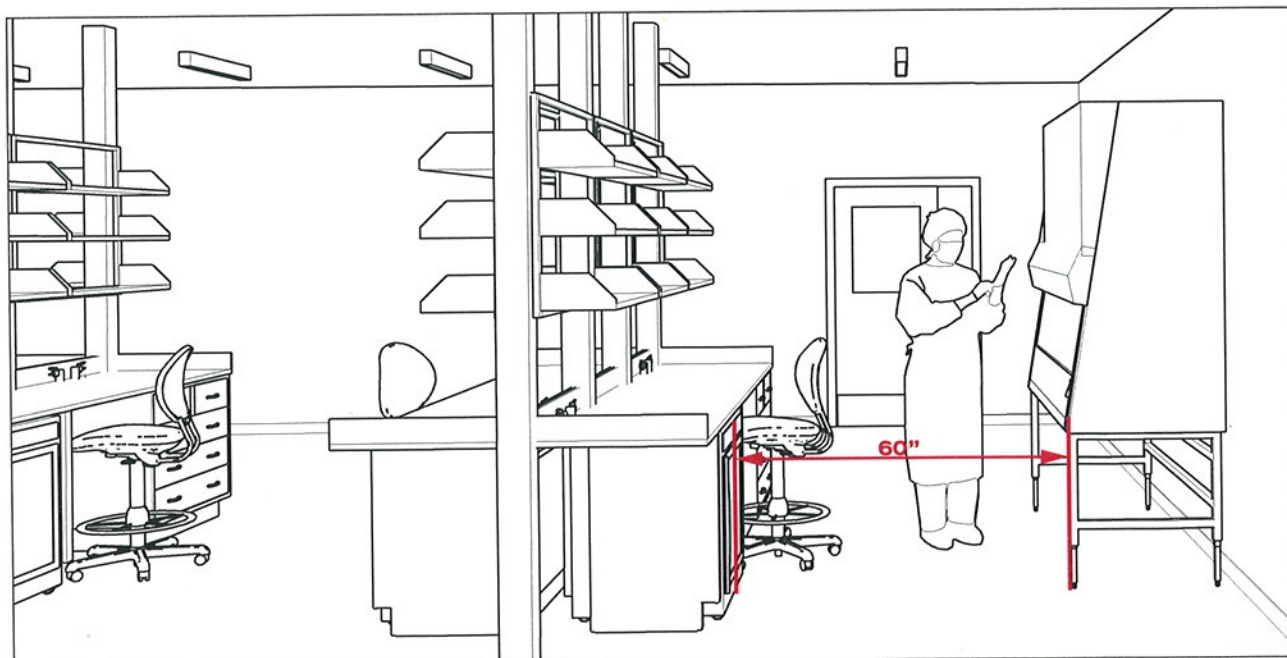
Methodology for Optimization of Laboratory Hood Containment. Memarzadeh, F. National Institutes of Health, 1996.

Distance to Opposing Walls:



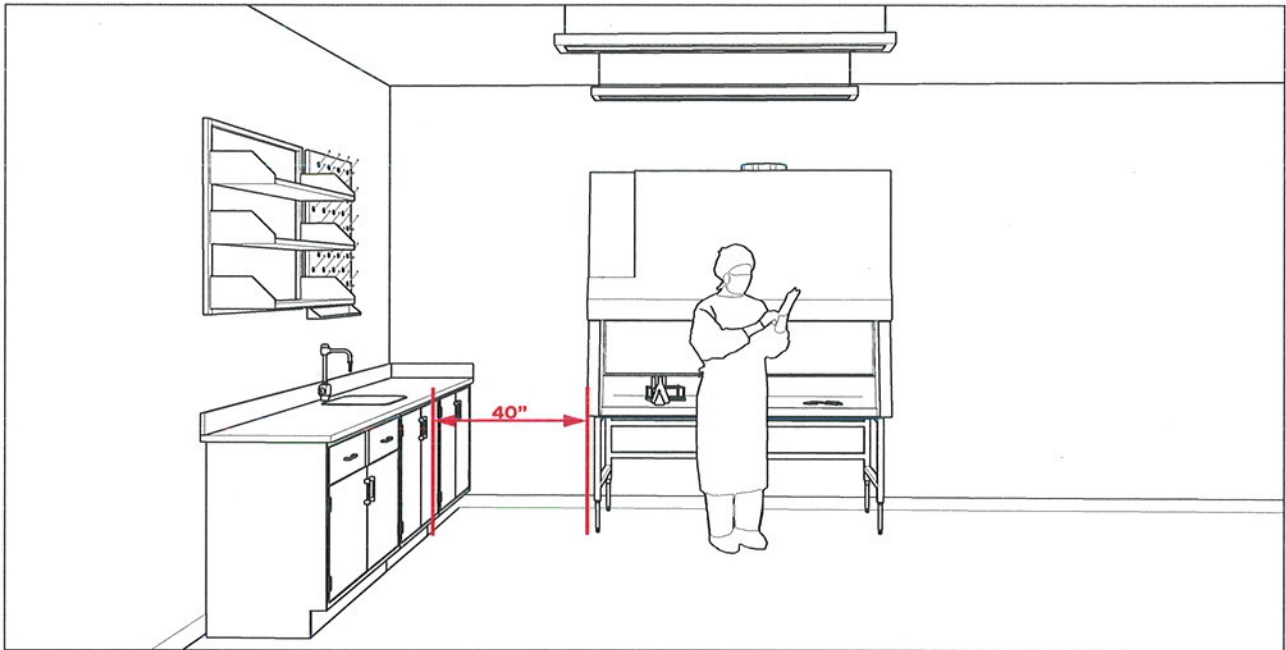
Place BSCs at least 80" from opposing walls.

Distance to Opposing Bench Tops:



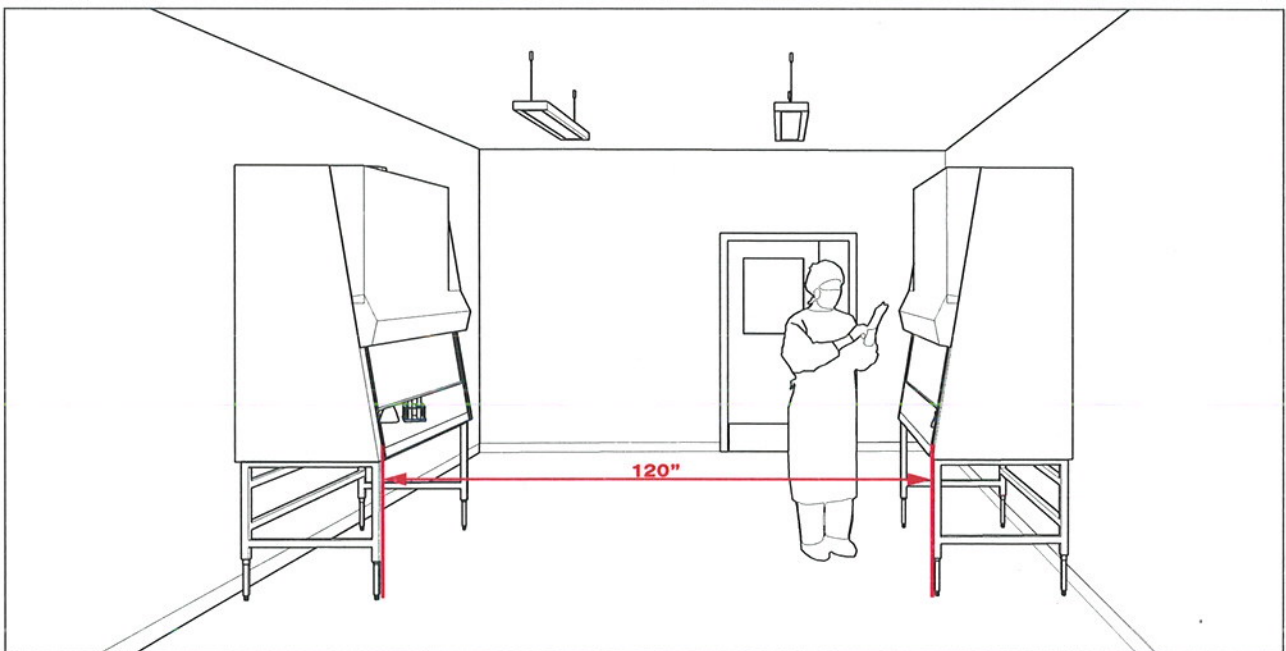
Place BSCs at least 60" to opposing bench tops or areas with occasional traffic.

Distance to Adjacent Bench Tops:



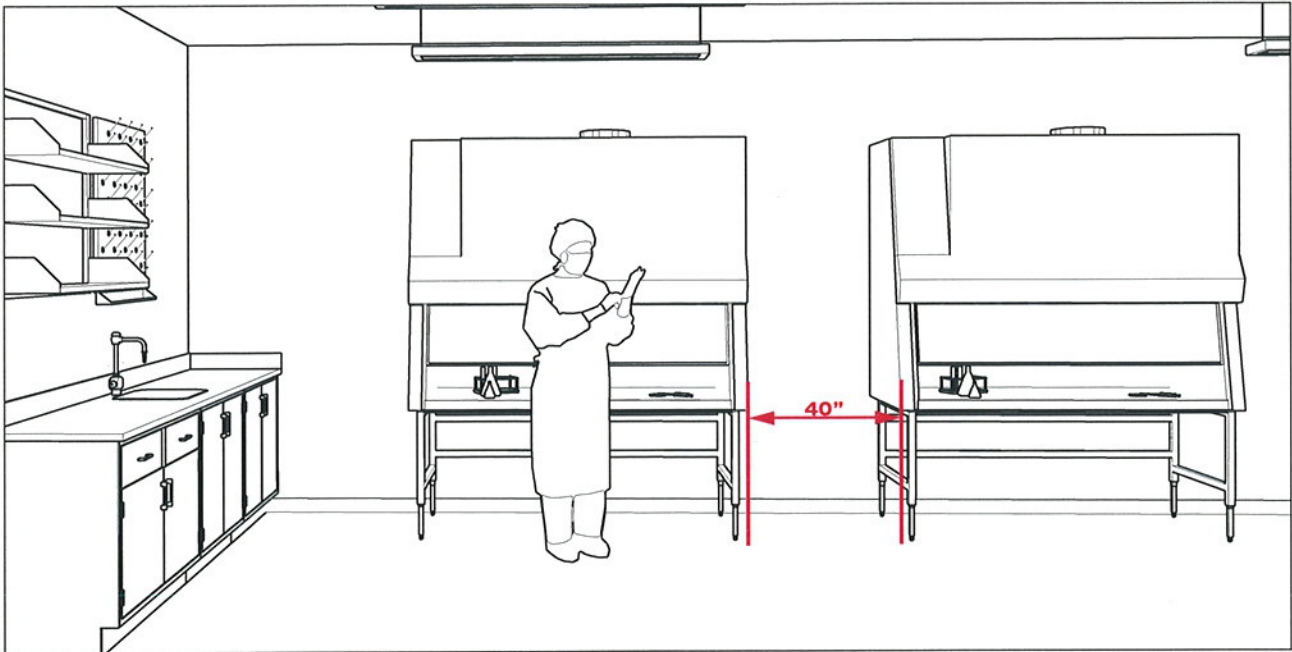
Maintain a distance of 40" between BSC and bench tops along a perpendicular wall.

BSC Placement Along Opposing Walls:



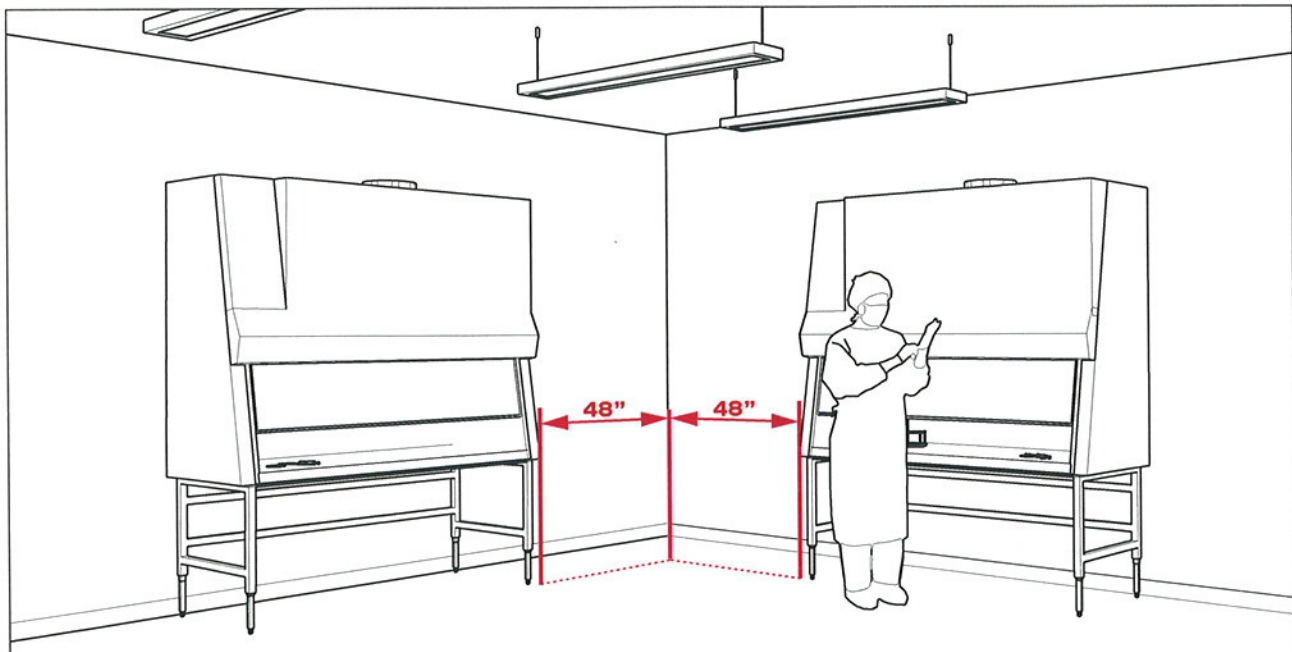
Maintain a distance of 120" between BSCs on opposing walls.

BSC Placement Along the Same Wall:



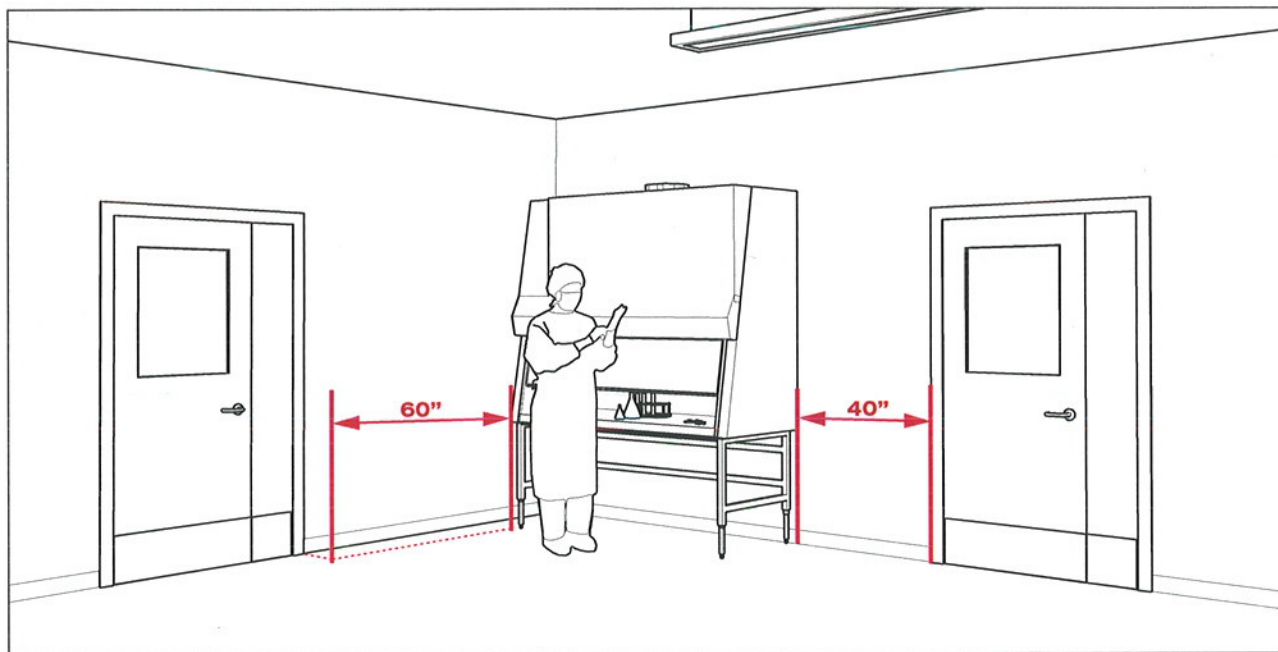
Maintain a distance of 40" between BSCs along the same wall.

BSC Placement Along Perpendicular Walls:



Maintain a distance of 48" between BSCs along perpendicular walls.

BSC Placement Near Doorways:



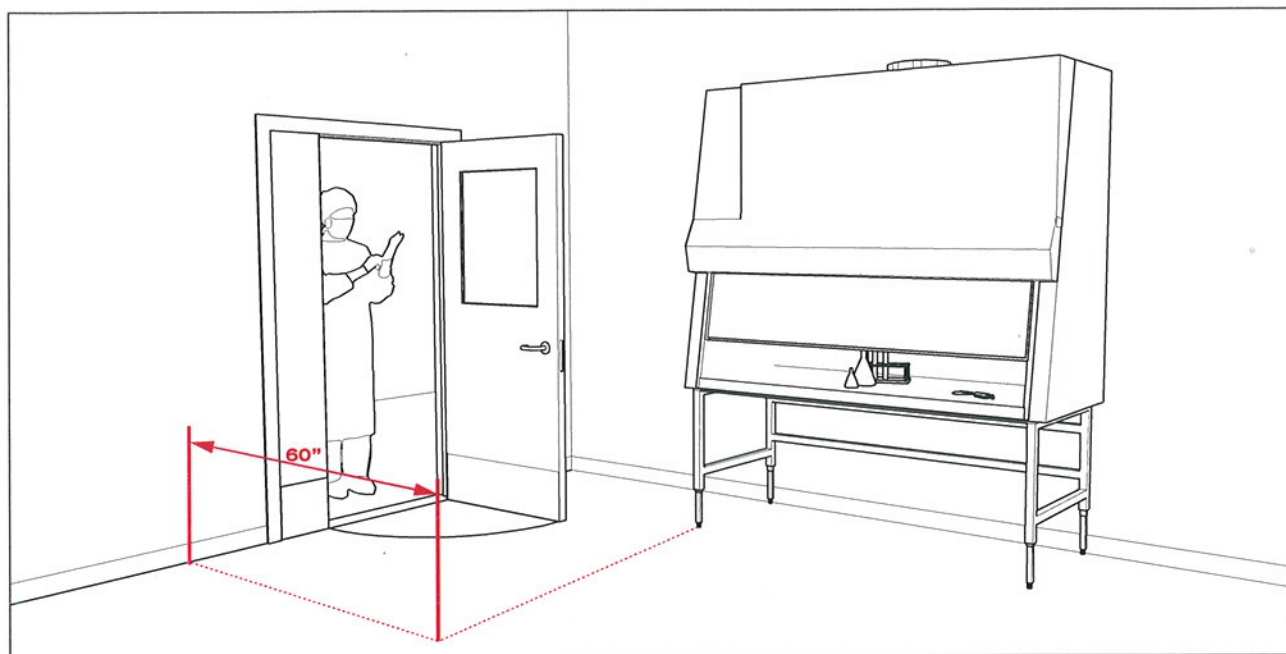
Placing BSCs near doorways is not recommended. If this arrangement is absolutely necessary maintain a distance of 40" to adjacent doorways and 60" to doorways behind the BSC.

BSC & Bench Placement:



Do not crowd bench tops and BSCs. Too much traffic produces dangerous disturbances to BSC airflow.

BSC Distance from Entry:



Maintain a distance of at least 60" from entry into lab modules to BSC.