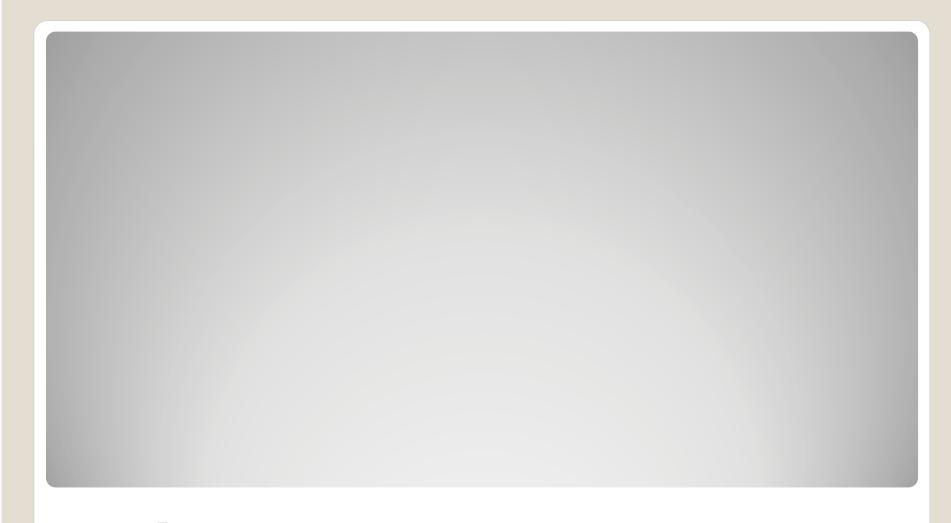
Biosafety Cabinet (BSC) Placement Requirements for new Buildings and Renovations

NATIONAL INSTITUTES of HEALTH Farhad Memarzadeh, Ph.D., P.E.

Division of Technical Recourses
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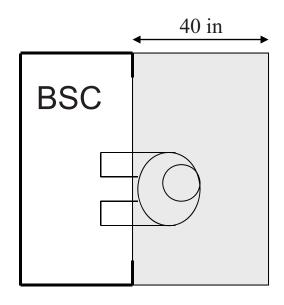
Refrence:

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.



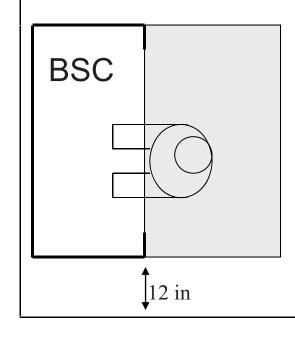
DO'sRequirements for BSC Placement

Workspace Specifications



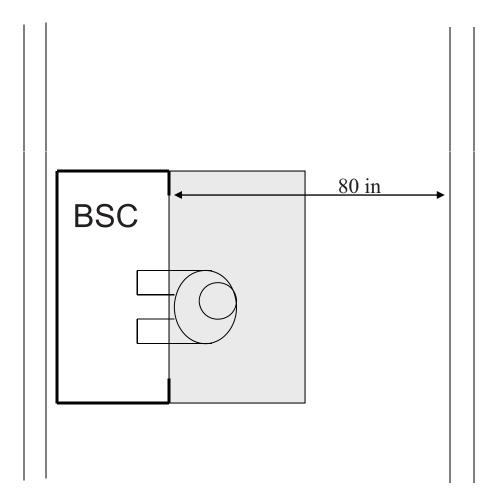
DO Maintain an undisturbed space of 40" around BSC.

Distance to Adjacent Wall



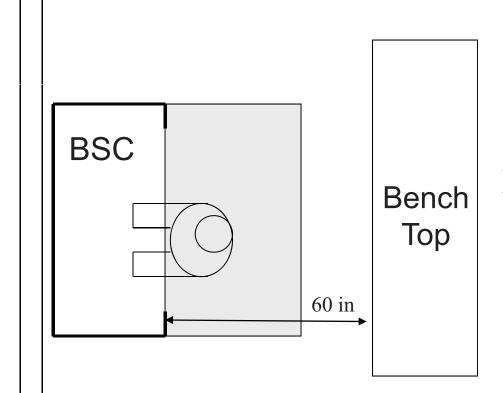
DO Maintain a distance of 12" to adjacent walls.

Distance to Opposing Walls



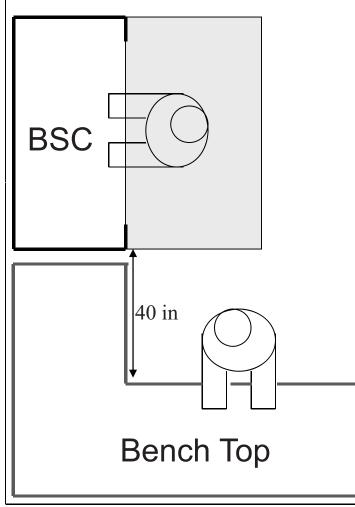
DO Place BSCs at least 80" from opposing walls.

Distance to Bench Top



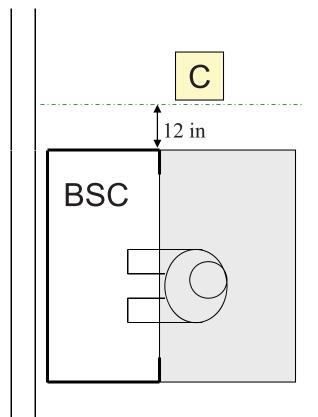
DO Place BSCs at least 60" to opposing bench tops or areas with occasional traffic.

Distance to Bench Top



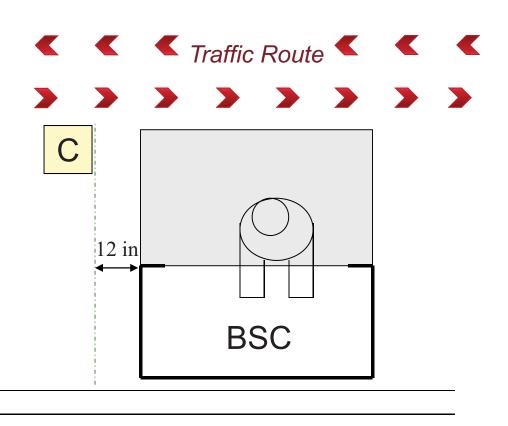
DO Maintain a distance of 40" between BSC and bench top along perpendicular wall.

Distance to Columns



DO Maintain a distance of 12" to columns to avoid disturbance to BSC airflow.

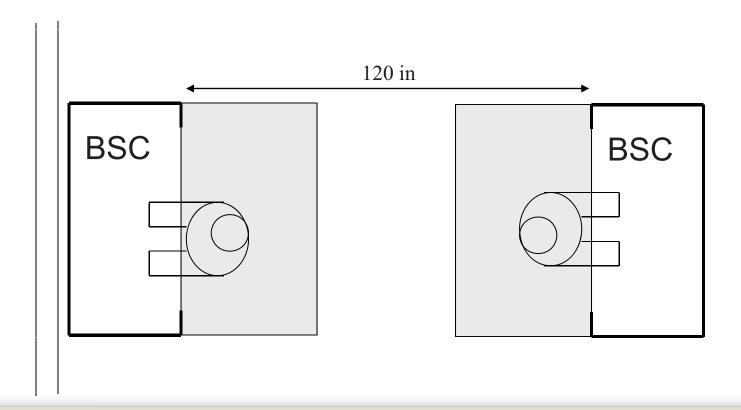
Distance to Columns



NOTE: Columns at a distance of 12" can aid in defining traffic routes.

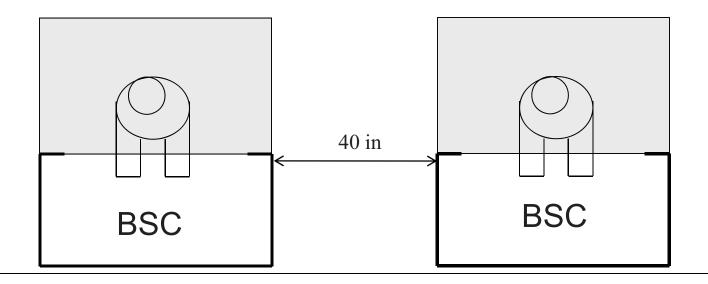
BSC Placement Along Opposing Walls

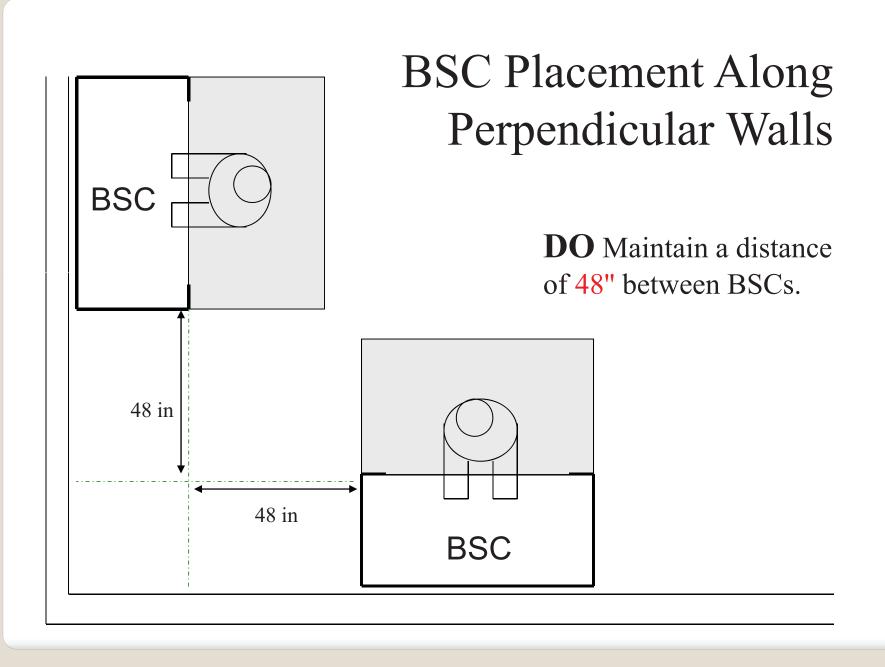
DO Maintain a distance of 120" between opposing BSCs.

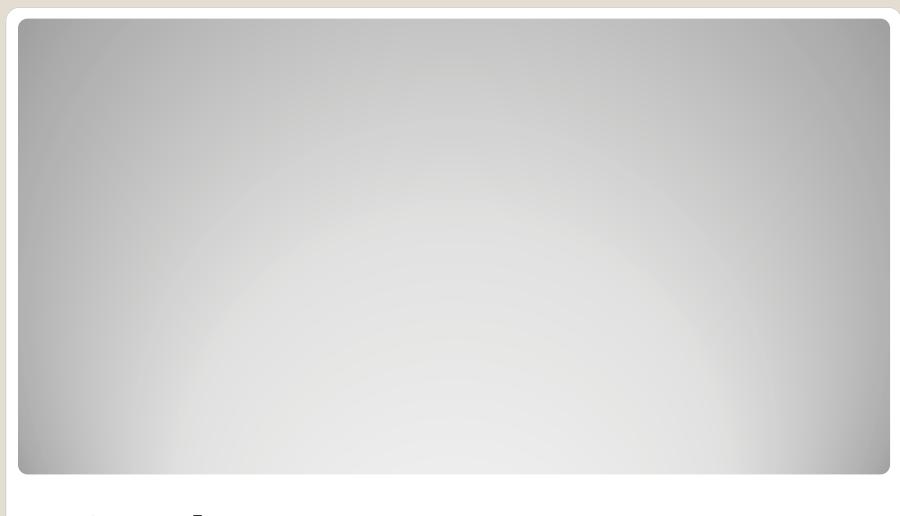


BSC Placement Along Same Wall

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

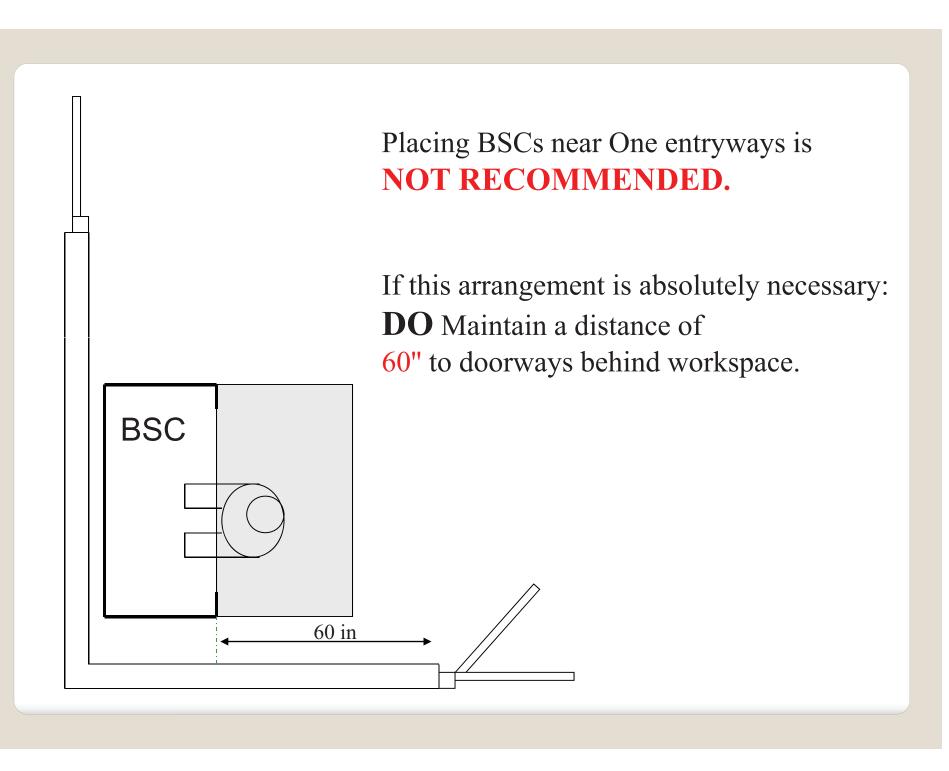


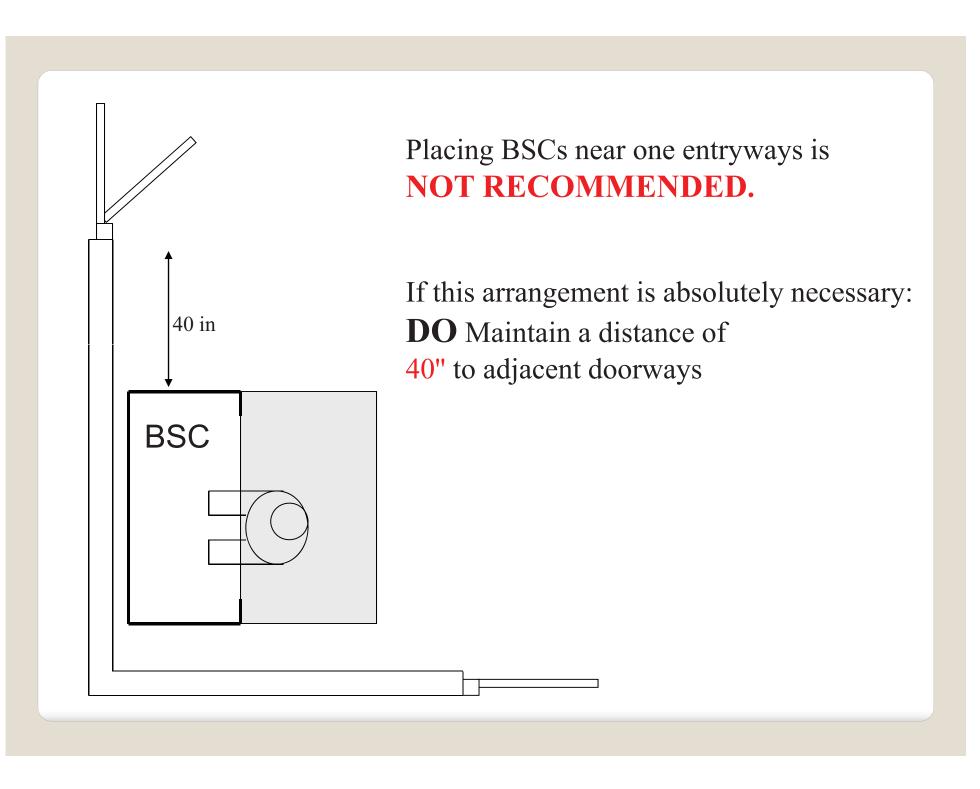


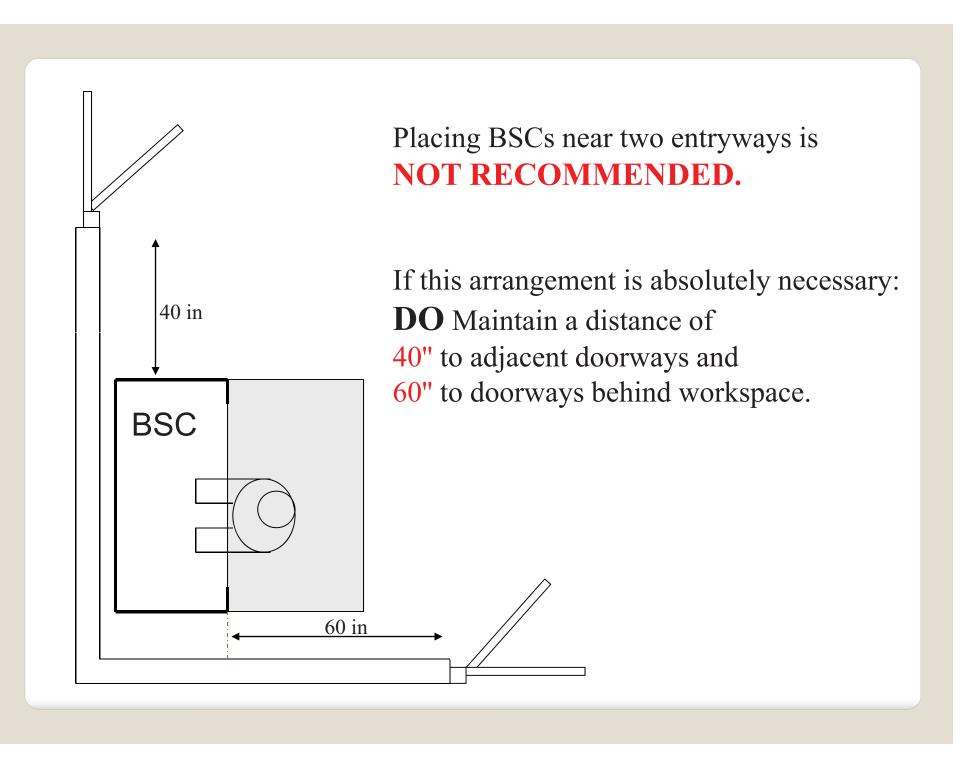


DONT's

BSC Arrangements to Avoid

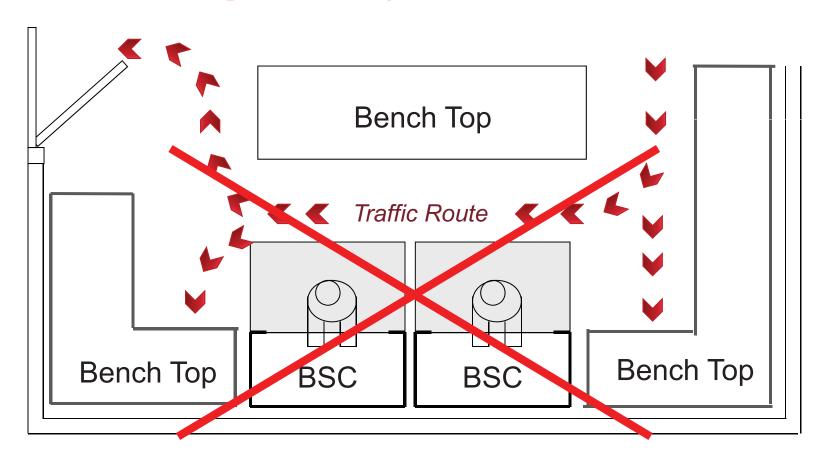






DO NOT Crowd together bench tops and BSCs.

Too much traffic produces dangerous disturbances to BSC airflow.



DO NOT Place BSCs directly near bench tops.

Designated workspace around BSC will be disturbed.

