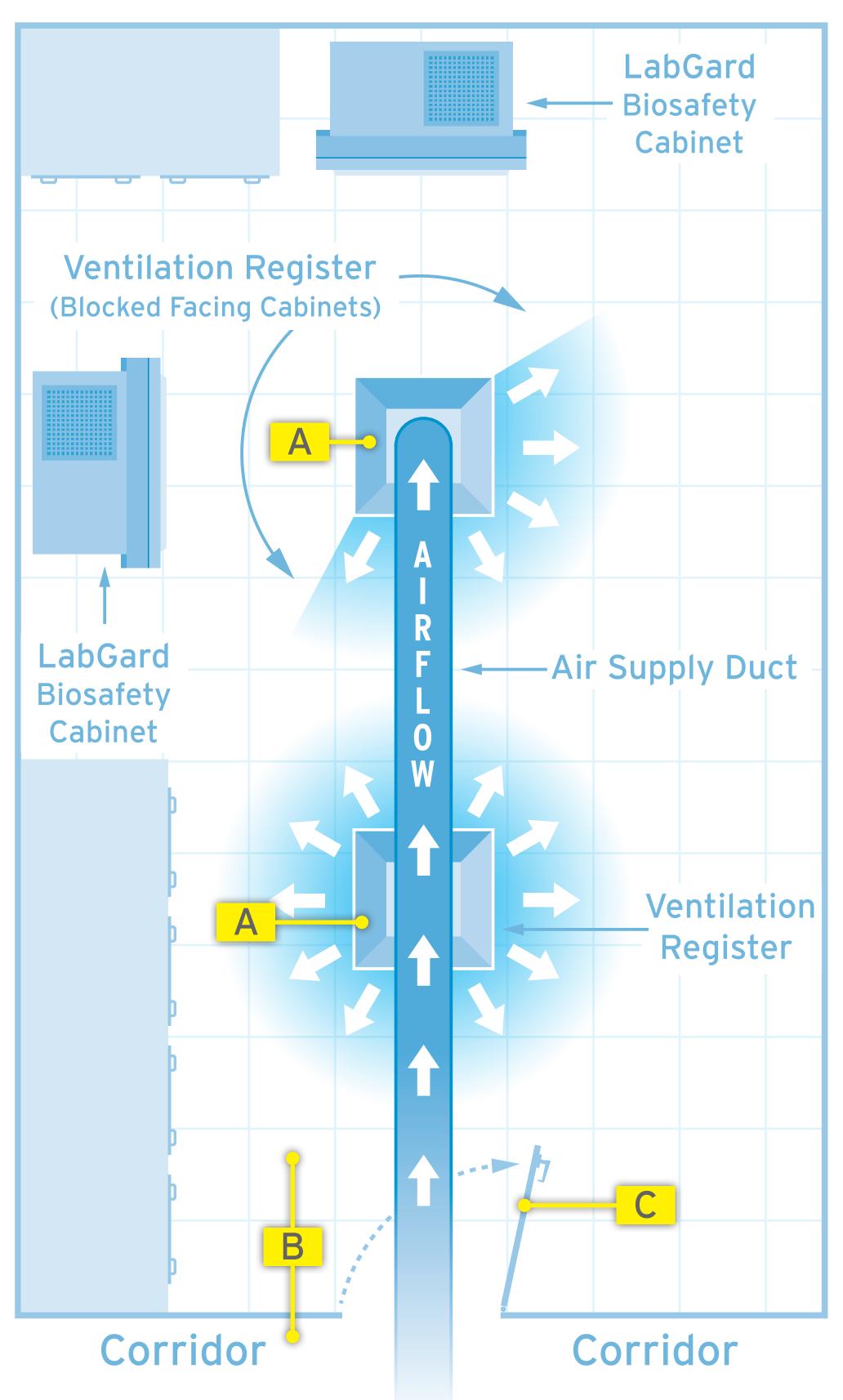
CLASS II, TYPE A2 BIOSAFETY CABINET PLACEMENT

LOCATION

IN A LABORATORY, OR PHARMACY, A BIOSAFETY CABINET MUST BE LOCATED AWAY FROM SOURCES OF DISRUPTIVE AIR CURRENTS

Such as Air Vents [A] Personnel traffic lanes [B] or Doors [C]



2

EXHAUST AND DISRUPTIVE AIR CURRENTS

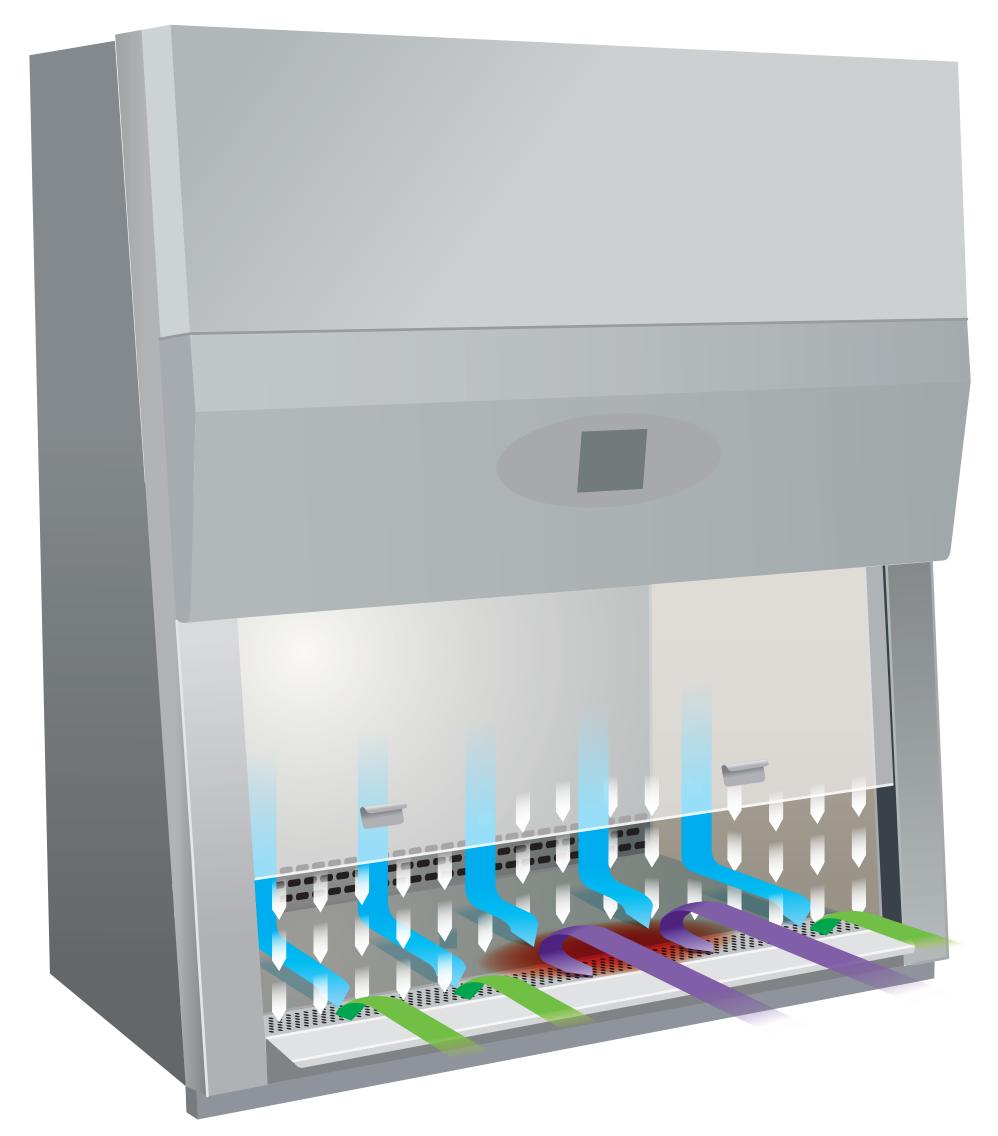
THE EXHAUST FILTER OUTFLOW AREA IS ESPECIALLY SUSCEPTIBLE TO DISRUPTIVE AIR CURRENTS

Disruptive air currents have the potential to influence both exhaust and inflow air, disturbing the air balance and resulting in unsafe working conditions.



Contaminated Vent AirHEPA Filtered Exhaust

DISRUPTIVE AIR CURRENTS CAN EXCEED THE PROPER INFLOW VELOCITY OF A BIOSAFETY CABINET



- Room Air
- HEPA Filtered Downflow
- High-Velocity Air Current
- Contaminated Air Incursion

Air currents of too great a velocity near the work access opening can disrupt the protective air barrier which prevents contaminated room air from entering the work area.

Air Barrier

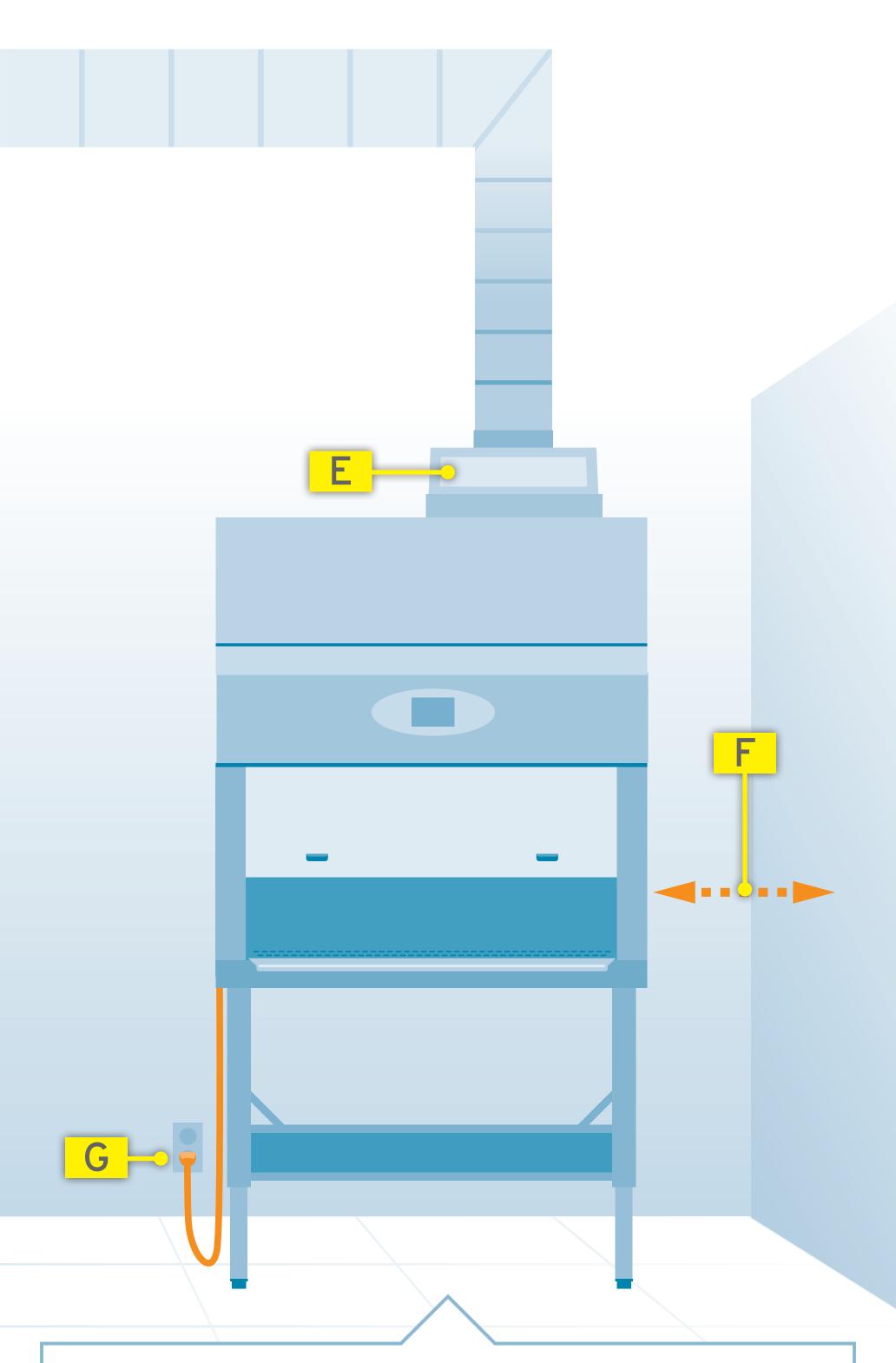
B INSTALLATION AND EXHAUST

BIOSAFETY CABINETS USED FOR WORK WITH MINUTE QUANTITIES OF NON-FLAMMABLE

OR EXPLOSIVE VOLATILE TOXIC CHEMICALS AND TRACER AMOUNTS OF RADIONUCLIDES

required as an adjunct to microbiological studies must be exhausted through properly functioning exhaust canopies.

A Canopy Exhaust Transition [E] is recommended to capture exhaust efflux.



6" (152mm) of space **[F]** should be kept accessible on each side of the cabinet for maintenance access. The electrical outlet to which the cabinet is connected should be accessible. The power plug **[G]** serves as an emergency disconnect and should not be obstructed.

