Class II (laminar flow) biosafety cabinetry

F.7.3 Method

F.7.3.1 Alarm functions

F.7.3.1.1 Airflow alarms (excluding building automation systems)

a) Whenever an alarm is present to monitor the performance of airflow, it must be performance verified. The alarms shall be performance verified at every certification.

b) The procedures outlined in the owner’s manual shall be followed. Once the cabinet is set or certified in its acceptable airflow range, audible and visual alarms shall be required to indicate a 20% loss of exhaust volume within 15 sec.

F.7.3.1.2 Sash alarms

The sash shall be raised 1.0 in (2.5 cm) above the manufacturer’s recommended height. Signaling of an audible alarm shall be verified.

F.7.3.2 Interlocks

Supply fan interlock on B2 cabinets:

a) Shall be tested at time of alarm verification.

b) Reduce exhaust volume 20% once the cabinet is set or certified in its acceptable airflow range, and verify that audible and visual alarms indicate a 20% loss of exhaust volume within 15 sec. The internal cabinet fan(s) shall be interlocked to shut off at the same time the alarms are activated.

F.7.3.3 Exhaust system performance – canopy connection

Using a visible smoke source, verify negative pressure at the gap. No smoke shall escape into the room once it enters the exhaust system.

NOTE – For hard ducted hoods, measure the static pressure in the duct-work between the hood and duct-mounted balancing dampers.