FLOW SCIENCES, INC.

Essential VBE Operating Guide

Checklist to maintain optimal containment variables: This quick-reference summarizes key operational Do's and Don'ts to mitigate possible exposure of personnel, ensure ASHRAE 110 compliance, and optimize equipment performance. Operating containment enclosures requires consistent training on standard operation procedures. Always follow all operations and procedures as dictated by your facility's Safetyand/or EHS Department.

DO

Keep Hinged Door Down
Perform all hazardous operations with the front hinged door down to maintain containment integrity.

Work 3 Inches Back
Conduct all chemical/powder handling at least 3 inches behind the front base airfoil.

Position Edge of Workbench
Place enclosure as close as possible to the front edge of the workbench.

Continuous Fan Operation
Keep fan box running continuously. Allow 15–20 minutes venting if turned off for maintenance.

Verify EHS Certification
Ensure unit is certified to safety department requirements and maintain Good Laboratory Practice (GLP).

Periodic Plenum Cleaning
Clean the plenum periodically during active ventilation to ensure smooth airflow and avoid cross-contamination.

In-Enclosure Waste Chute
Carefully remove gloves/sleeves inside enclosure and place in hazardous waste chute if equipped.

DON'T

Do Not Block Alarm Sensors
Never obstruct alarm sensors located under the base airfoil or behind side airfoils.

Avoid Room Cross Drafts
Do not position enclosure near strong air currents caused by HVAC vents or doors.

Do Not Rest on Airfoils
Never use the front base airfoil as an armrest, handle, or lever.

Do Not Store Chemicals Inside
Do not use the enclosure interior as a chemical or materialstorage area.

Avoid Acetone Cleaning
Never clean acrylic with acetone (causes cracking/crazing).Use water-based lab cleaners.

Do Not Use Compressed Air
Do not clean with pressurized air, which can pressurize enclosure and re-energize hazardous particles.

Avoid Rapid Arm Movements
Avoid rapid hand or arm movements inside the enclosure or near the face opening.

Do Not Drag Arms on Surfaces
Lift arms rather than dragging across work surfaces to prevent hazard transfer to lab coats/sleeves.