



# Wet Chemistry Isolators from Hosokawa Micron offer Barrier Protection from Liquid Forms of Potent or Toxic Chemicals

Leading dry powder and particulate containment technology specialists, Hosokawa Micron can now offer wet chemistry isolator technology for those companies operating in the wet processing field of chemical synthesis and seeking barrier protection systems to safeguard personnel from potentially hazardous substances.

Typically for enclosure of small scale bulk active pharmaceutical manufacturing plants incorporating reaction vessels, crystallisation equipment and filtration vessels the isolators give easy but contained operator access for product input, product removal, operational adjustment and maintenance.

In response to health and safety concerns for personnel working directly with the liquid forms of increasingly concentrated active, toxic ingredients used in pharmaceutical production the isolators offer flexibility of operation, product integrity and personnel protection of the highest level.



A recent development in conjunction with a leading custom synthesis company comprised a single chamber isolator offering two modes of operation. The isolator mode providing OELs of ,1mcg/m<sup>3</sup> TWA and an airflow mode providing OELs of ,200mcg/m<sup>3</sup> TWA by the use of inflow air velocity through the doors.

As an additional safety feature because solvents were used in the process, the isolator was designed to ensure any solvent vapour concentration remains below the lower explosion limit.

Within the isolator are shelves and dishes to retain small process components, canisters, batch reagents or other products which precludes the need for open door access for most operator, process intervention.

Plant equipment is assembled via the open front doors and our photograph shows a typical equipment arrangement. All process services are piped to the isolator and connected outside the isolator.

The isolator is fully equipped with spray balls and lance for complete CIP operation with the cleaning liquid fully discharged to drain.