

# Flexible and Rigid Solutions for Improved Containment

Extract Technology Downflow Booths have for many years had additional design features built into them to allow improved or increased containment levels to be achieved. These designs were incorporated into Booths in the early 1990's in detraying and dispensing applications when OEL's of  $<10\mu\text{g}/\text{m}^3$  (task duration) were achieved.

These designs were the forerunner to the Flexible Containment Screen (patented) and the Rigid Containment Screens that are increasing being adapted in current applications, where the screen acts as an additional barrier between the active product and the operator.

## Flexible Containment Screen:

The Flexible Containment Screen is a cost effective solution manufactured in anti-static PVC that allows the operator to handle the potent compound through glove ports, (the customer/operator deciding how many are required), whilst also allowing full flexibility of movement so the operator does not feel restricted. The glove ports are generally welded PVC sleeves with lightweight cuff rings and nitrile rubber gloves, but can be adapted to suit the application.



## Rigid Containment Screen:

For those customers who prefer a Rigid Containment Screen, the clear perspex or glass viewing panel can be designed to have a full 4-axis range of movements. The screen is therefore able to move forwards and backwards, side to side, up and down, and also rotate. Incorporated will be the patented PharmaPort glove ports used on the Extract Rigid Isolators, with a range of gloves (neoprene/vinyl/latex etc) to suit the customer's specific application.

## Guaranteed Containment:

Recent tests undertaken on Booths as far afield as Brazil, Australia, Saudi Arabia and closer to home in Ireland, have confirmed levels as low as  $1\mu\text{g}/\text{m}^3$  (task duration) can be achieved with any of these enhancements, dependent upon the application. Although levels of  $<1\mu\text{g}/\text{m}^3$  may well be achievable, repeatability could be an issue, so we would normally recommend rigid Isolators to guarantee this level of containment.

These solutions are often designed into new Extract Downflow Booths, when the application demands the achievement of a higher containment level. However, they are also seen as a popular upgrade to any Booth that the customer has on site, when the increased potency of the products being handled necessitates additional safety features.



## Mobile Flexible Workstation

This is a further option available, for those short run applications, where rapid installation and operator safety are a priority. Designed with either an open top or their own self contained filtration system, they are designed for low cost of replacement at product changeover or at the end of the campaign. Each unit is designed with the customers specific application in mind, so they are guaranteed to suit the application as well as the containment levels required.

