



## Push Through HEPA Filter Systems



M.C. Air Filtration manufacture's a range of Push through filter systems to suit varying applications in both the Nuclear and commercial environment.

The push-through filter system is primarily intended for use as a supply or exhaust filter to small cells, glove box's and isolator's.

Push through filter systems are available in a range of 4 standard sizes to suit normal system duties up to 12.5, 35, 75 & 160 l/sec however we also produce non-standard sizes and design's to suit the specific application.

Housings can be configured to suit both single and 2 stage (primary & secondary) applications and can be installed in any orientation.

Push through filter systems utilize radial flow HEPA filter inserts with external lip seals which are available in a range of standard sizes and materials of construction.

### **Operation:**

Push through filter inserts are changed by pushing the used insert through its cylindrical housing into the contained cell for bagging and disposal or into a safe change bagging port.

### **Construction:**

Housings are manufactured as pressure tight all welded cylindrical assemblies in either 304 or 316 grades of stainless steel with a bright polished, mat or grit finish.

### **Connections:**

Housing are manufactured with mating connections to suit customer requirement such as flat plate, raised face flanges or tri-clover ferules.

### **Working Pressure:**

The filter housings are normally used on systems working at pressures of < 6000 Pascal. However we also design and manufacture housings compliant with the European Pressure Directive up to working pressures of 12 BarG.

M.C. Air Filtration manufacture push through filter housings to the following design principles:

**Enclosure Mounted Single Tee:**

Suitable for flanged connection direct to the contained cell, allowing the dirty filter insert to be pushed into the cell for manual bagging prior to removal.

**In line Double Tee with Safe Change Bagging Port:**

Suitable for in-line use with the dirty HEPA filter inserts being removed via an integral safe change bagging arrangement.

**2 stage Push Through Filter Systems:**

Push through filter systems primarily operate as a single stage HEPA filter however we also manufacture systems designed to accommodate both a primary and secondary push through filter insert.



**Quality Control:**

All M.C. Air Filtration HEPA filters & filter housings are manufactured and tested under strict quality controlled conditions in accordance with our BS EN ISO 9001:2008 accreditation.

Each filter insert & filter housing will be individually factory tested and allocated with a unique serial number for future traceability.

Alternative sizes, specifications and materials of construction may be available; please contact our Sales office to discuss your specific requirements.