**PHARMACEUTICAL ISOLATORS**

“Wherever there are cleanrooms and laboratories you will find Mach-Aire products playing an important role in the research and manufacturing programmes of the world’s largest companies and institutions.

Our capabilities, whether in technology, design, safety of operation, construction or service are also fully at your disposal”.

### APPLICATIONS

- NHS Hospital Pharmacy
- Dispensing of toxic medicines
- Radiopharmaceutical dispensing
- Cytotoxic dispensing
- Blood products
- Tox power weighing

### FEATURES

- Operator protection
- Product protection
- Environmental protection
- Slanted front window
- All round vision
- Ergonomic design
- Independent fumigation of transfer hatches and chamber

### Optional Equipment

- Vari-lift Support Stand
- Closed Circuit Television System
- Handsfree Intercom
- Hanging bar and hooks
- Under Transfer hatch Storage Cupboards
- Extra Splashproof electrical socket outlets
- Service Valves, vacuum, air, etc.
- Glove / Sleeve Leak Test Kit
- Sealing lids for pressure decay tests
- Automatic Particle Counting System
- Vapourised hydrogen peroxide (VHP) gassing pipework

### Standards Compliance according to

- BS EN ISO 14644.7 2000/SEPARATIVE DEVICES
- EC GMP Grade “A” Laminar Flow
- EN 61010 Electrical Wiring
- BS EN ISO 14644.1 Class 5

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### TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INP-120(A)</th>
<th>INP-180(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTERNAL DIMENSIONS mm</td>
<td>1980X2000X1815</td>
<td>2980X2000X1815</td>
</tr>
<tr>
<td>INTERNAL DIMENSIONS mm</td>
<td>1000X700X600</td>
<td>1600X700X800</td>
</tr>
<tr>
<td>GLOVE PORT DIMENSIONS mm</td>
<td>300x250 OVAL</td>
<td>300x250 OVAL</td>
</tr>
<tr>
<td>WEIGHT (KGS)</td>
<td>190</td>
<td>240</td>
</tr>
<tr>
<td>TRANSFER HATCH CLASSIFICATION</td>
<td>TYPE ‘D’</td>
<td>TYPE ‘D’</td>
</tr>
<tr>
<td>TRANSFER HATCH DOOR OPENING DIMS.</td>
<td>300X275</td>
<td>300X275</td>
</tr>
<tr>
<td>FILTER EFFICIENCY</td>
<td>HEPA H-14 99.999% AT 0.3 MICRON</td>
<td>HEPA H-14 99.999% AT 0.3 MICRON</td>
</tr>
<tr>
<td>NOISE LEVEL SPL dba</td>
<td>&gt;57</td>
<td>&gt;57</td>
</tr>
<tr>
<td>ELECTRICAL DETAILS</td>
<td>230V AC 50Hz 8 AMPS</td>
<td>230V AC 50Hz 10 AMPS</td>
</tr>
</tbody>
</table>

### NEW GENERATION PHARMACEUTICAL ISOLATOR

Mach-Aire Ltd
Bridge Street
Horwich Bolton BL6 7BT
United Kingdom

Tel. ++44 (0)1204-668905
Fax. ++44 (0)1204-668906
email. sales@machaire.co.uk
web. www.machaire.co.uk

DATA SHEET 713
Fan / Filter Chambers

The Isolator fan/filter chambers and front hinged controls facia panel are all from corrosion resistant (inside and outside) surface, texture finish. All internal surfaces and internal components are capable of withstanding gaseous disinfection or sterilisation and usual disinfectants.

Ease of Operation

The Mach-Aire Model ICT-180 (A) and INP-120 (A) Type 2 (Negative Pressure) Isolators are a high quality product made to an ergonomic design that is both user-friendly and efficiently functional.

Easy Working Space

The working area is well lit with easy access to the transfer chambers. The stainless steel working surface is dished to cope with leaks of fluids.

The working chamber can be remotely visually monitored from outside by a jyostick operated high resolution camera mounted outside the chamber for checking labels, batch numbers, checking by responsible person, operator technique, training etc. Additionally VCR or disk recording is available.

Transfer Chambers

The two ‘open aspect’ transfer hatches are manufactured from polished acrylic and stainless steel similar to the working chamber. Both hatches are fitted with electro-magnetically ‘INTERLOCKED’ and ‘TIMED’ double doors. The transfer hatches are maintained at a lower differential pressure to the working chamber, therefore the airflow influence will when the inner door is opened be into the hatch and away the working chamber.

All H.E.P.A. filters are H14 and of the minipleat design with a minimum efficiency of 99.999% of all particles over 0.3 microns.

The primary H.E.P.A. filter located directly below the sump is uniquely supplied with an integral ‘safe change’ flexible skirt, which connects directly on to the sump upstand. Upon H.E.P.A. change over all contamination is sealed in the H.E.P.A. envelope which is then disposed of complete with skirt and compression strip.

Progressive density synthetic pre-filter panels are mounted upstream of the transfer hatch H.E.P.A. filters.

Support Stand

The support stand is manufactured from a welded mild steel box section 38mm x 38mm which is polyester coated. Lockable castors are fitted for mobility.

Storage Cupboards and Work Tops

Below each transfer hatch can be fitted (optional) a lockable storage cupboard with internal removable stainless steel shelves. Purpose shaped phenolic resin load/unload worktops are located to the front of each transfer hatch outer door as standard.

Gauntlets

All gauntlet sleeves are ‘tailored’ and manufactured from a double skinned construction of p.v.c. and polyester materials giving comfort and impermeability to aerosols, etc. The gauntlet sleeves have a unique visual indication of any leak in either the outer or inner skin.

Cuff rings are designed for safe aseptic glove change techniques, which does not compromise the internal chamber integrity.

These items, an additional cost item on competitors isolators are standard equipment on Mach-Aire isolators.