



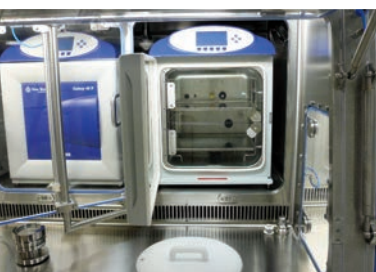
extract
TECHNOLOGY

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ENGINEERED ASEPTIC SOLUTIONS

Cell Therapy Isolator



Extract Technology's Cell Therapy Isolators are designed to provide an ergonomic and practical alternative to traditional clean rooms for stringent cGMP and international regulations for the production of cells for clinical use.

Extract Technology design and manufacture a varied range of Cell Therapy Isolators to suit each clients individual requirements.

- Ergonomic design generated with the aid of full scale mock-ups.
- Multiple chamber arrangements providing defined barriers between process steps, enhancing aseptic performance
- Fully welded fabrications of 316L stainless steel, providing crevice free construction with internally radiused corners.
- On-board recirculation laminar flow air flow system guaranteeing ISO 5 classification.
- Integration of proprietary devices e.g. RTP's, incubators, centrifuge and decontamination system etc.

Design Advantages

Main advantages of Cell Therapy Isolator compared to traditional Cleanroom operation:

- EU GMP compliant design
- Increased sterility by reducing contamination risks (increased patient safety)
- Smaller operational space
- Reduced human interventions
- Physical barrier and pressure differential
- Hydrogen peroxide decontamination
- Highly controlled material flow
- Full process equipment integration within grade A environment
- Easier process separation (dedicated chambers)
- Different pressure regimes available within each chamber

**FOR MORE INFORMATION ON CELL THERAPY ISOLATORS CALL
+44 (0) 1484 432 727 OR EMAIL info@extract-technology.com**

Cell Therapy Isolator for Therapeutics Unit

Building on their reputation as a respected and innovative manufacturer of Aseptic Isolators, Extract Technology has installed a three chamber Cell Therapy Isolator at the Cellular Therapeutics Unit of Manchester University.

The Isolator is to be used for Cellular Immunotherapies targeted at Cancer, which has been performed in a clean room environment. Dr Ryan Guest, Leader of this project, stated that there were several reasons behind the move to using Isolator Technology; higher throughput, less labour intensive and finally lower operational costs as work can be safely carried out in a grade D cleanroom.

The Isolation system includes three identical chambers all complete with uni-directional flow achieving an EU Grade A / ISO5 environment along with a fully integrated

continuous particle monitoring system and automated chamber leak test facility. These features all interface with a hydrogen peroxide vapour generator, designed for the gassing-in-place of individual or combinations of chambers.

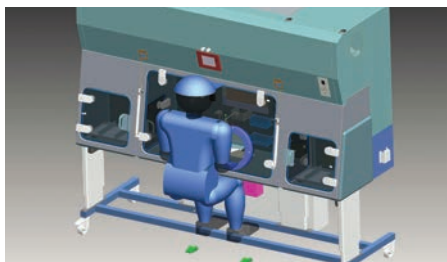
Following on from the completed installation of the Isolator Dr Ryan Guest commented:

"We are very impressed with the Isolator supplied by Extract Technology. They fully understood the requirements contained within the specification and fulfilled our expectations throughout the project".



Whatever else you look for in an aseptic solution, you will want it to be proven, tested and guaranteed. Extract Technology's Isolators deliver all these things and more.

1. Design



We generate conceptual designs based upon proven solutions, before finally compiling product specifications, standard operating procedures (SOPs) and working schematics (P&IDs).

2. Manufacturing

Manufactured in high quality stainless steel the isolator fabrications are formed, welded and polished to exacting standards and client requirements within ISO 9001 operating procedures.



3. Factory Acceptance Testing

Only when the equipment is fully built and pre-commissioned to design parameters is it exposed to a range of tests and standard operating procedures (SOPs). These can include high volume dust in air monitoring, internal / external surface swabbing, standard dust in air monitoring, and full scale operational tests of performance, all being performed within our controlled test environment.

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