

Case Study



QUBE® Healthcare Pharmacy Workstation

Leading bio-decontamination expert Bioquell UK Ltd. specializes in providing HP Vapor (hydrogen peroxide) decontamination equipment and services to research laboratories, pharma production plants and hospitals.

Bioquell UK Ltd. made a conscious decision to set up their own special clean environment facility to produce high quality Rotational molded products. With A. Schulman partnering in this project to provide Icorene® specialty grades.

Within the ongoing development of state-of-the-art rotomolded products, Bioquell UK Ltd. designed and created the QUBE®, a modular, flexible aseptic workstation with fully integrated HPV Technology using A. Schulman's High-Performance Specialty Rotomolding Powders to create quality levels rarely seen before in rotomolding.

The Bioquell QUBE® module allows a variety of configurations that tailors the workspace to the needs of the specific process.

The combination of unidirectional airflow and an ISO 5/Grade A working environment with rapid HPV bio-decontamination ensures the Bioquell QUBE® is suitable for applications such as cytotoxic preparation, gene therapies, cell therapies, sterility testing and many others.

Bioquell UK Ltd. is using the latest manufacturing techniques which delivers rapid bio-decontamination to a microbial reduction.



The Bioquell QUBE® has efficient cycles for pharmaceutical and life sciences applications and therefore requires a manufacturing process that enables hygienic durable products to be molded.

The QUBE® is a highly flexible and modular system that provides:

- **Integrated Merck Steritest Symbio Flex Pump** – World leading sterility test pump, fully integrated and controlled from your QUBE
- **Flexible, upgradeable design** – Choose how many chambers you require for your sterility test procedure, and upgrade to a larger system in the future if needed
- **Rapid installation and validation**
- **Ergonomic**– Built with you in mind
- **HPV technology** – Optimum performance for your sterility testing
- **Replace your cleanroom at a fraction of the running costs** – Sterility tests can be carried out in a lower grade or an ungraded environment
- **Accessories** – Choice of Racking options and Merck accessories to improve workflow

Bioquell UK Ltd. are pushing the limits of design in rotational molding and to achieve this, it is important to work very closely with the raw material supplier. For the QUBE[®], the brief required extreme high tolerances due to multiple parts, with higher scratch resistance and no warpage.

“A. Schulman is our preferred supplier due to their extensive portfolio of High-Performance Grades backed up by technical service and support”, says Kevin Bridges, Bioquell’s TERM (Technology Enhanced Rotational Molding) Director”.

A. Schulman is a leading supplier of High Performance Rotomolding Powders in Europe with its trademark powder Icorene[®].

With four powder operating facilities located in France, Holland, Italy and the UK, A. Schulman offers a broad range of grades in terms of density, melt flow, impact resistance, rigidity, ESCR, grind type and custom compound colors.

A. Schulman powders are continually developing new innovative specialized grades to open new opportunities for our molding customers.

“A. Schulman thrives on working closely with molders on new projects, the closer we work with our molding customers, the more opportunities of building partnerships that achieve high quality moldings such as the QUBE[®]. Bioquell UK Ltd. is a very good technical molder that we have worked well with over many years to meet the high demands of the end user. “I can honestly say the Qube is one of the best rotomolded products I have seen in 36 years in the industry.” added Les Druyf, A. Schulman Roto Product Line Manager.



Angélique Brocatus-Kooijmans, January 2017

For further information, please contact sales.emea.sp@schulman.com

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