

# MEDICAL DEVICE ISOPODS



## THE CLIENT

Oval Medical Technologies Ltd – a world class drug delivery business specialising in the development of autoinjector platforms with a strong patient focus. Oval designs, develops and industrialises autoinjectors that include integrated, customised primary drug containers. Oval's enabling autoinjector technology provides consistent delivery performance for a wide range of formulation viscosities.

## THE BRIEF

Oval were looking to enhance the capability of their development lab to incorporate a new upgraded part of their process, opting for two conjoined 6m<sup>2</sup> Softwall Isopods. Oval had specific challenges within the room that precluded them from opting for a standard Isopod, therefore we were charged with designing two bespoke connected units.



Medical Device



No temperature control required



12m<sup>2</sup>



## Truly patient centric autoinjector platforms

From About on [www.ovalmedical.com](http://www.ovalmedical.com)

"Oval aims to bring truly patient-centric autoinjector platforms to market. Founded in 2009 by Matthew Young, Oval takes a different approach, designing from the outside in, ensuring that all patient needs are met. Our team has a wide range of expertise allowing us to deliver the best solutions to partners and patients."

**oval**  
MEDICAL TECHNOLOGIES

An SMC Ltd. Company

**CAMBRIDGE PHARMA**



**Isopod**  
rapid cleanrooms

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## THE TECH SPECS

A controlled environment designed, installed, cleaned and commissioned by Guardtech built to the following specification:

- ◆ **Structural:**  
Grade 304 stainless steel frame with anti-static PVC strip curtain.
- ◆ **Electrical:** LED lighting panels to provide an average of 500 lux at bench level.
- ◆ **Mechanical:** Filtration provided by H14 HEPA filters powered by Fan Filter Units.
- ◆ **Monitoring:**  
Pressure monitoring from magnehelic gauges.



Units in order to create the tallest internal ceiling that could be achieved for the Isopods.

## THE CHALLENGES

**Internal ceiling height:** Space may have been at a premium – but this wasn't a major obstacle for Guardtech. The team opted to use slimline Fan Filter

**Structural:** The client wanted the units to be mobile, and so wheels were fitted. As a result, we needed to put structural reinforcement in place to reduce the risk of splay. Structural calculations were made to ensure the outward force was offset by adequate bracing.

**Equipment transfer:** The client needed to move equipment between the two Isopods, which meant the Installation team needed to incorporate a removable bar at the bottom of the Isopods. This enabled us to retain the structural bracing while accommodating the need for equipment transfer.

## THE RESULT

Guardtech Commercial Director Mark Wheeler said: "The team enjoyed tackling the various challenges that this bespoke Isopod build presented.

"Many of the lessons we learned on this project, and the new ideas we implemented for these bespoke Isopod models, have been incorporated into our ongoing development plans for the standard product range.

"This should prove to be extremely valuable in helping us to develop the best possible product for the widest range of future users."