

Connect 2 Cleanrooms Create Modular Cleanroom Solutions on a Large Scale

When Edwards recently began looking for a large scale cleanroom environment which could be relocated at a future date, a mutual contact recommended they get in touch with Connect 2 Cleanrooms.



Connect 2 Cleanrooms are a UK cleanroom manufacturer who specialise in creating bespoke modular cleanrooms. They were able to design a large scale, modular cleanroom for Edwards that was substantial enough, at 12m x 10m, to create a localised clean environment over their production area. With a lofty 4m internal clearance it was also tall enough to house the dedicated production machinery.

36 HEPA fan filter units were designed to be housed within this large frame to produce 97 air changes per hour at air speeds of 0.5 metres per second. This was calculated so the cleanroom could achieve its required classification of ISO Class 7.

By design, the modular cleanrooms are freestanding so Edwards was not required to apply for any costly and time consuming Building Regulations. Connect 2 Cleanrooms designed the cleanroom with hand rails and kickplates on the exterior of the room to ensure it was only accessed through the designated change area; allowing the cleanroom to maintain its integrity during use and encouraging good gowning protocol.

Modular cleanroom solutions cost considerably less than traditional build rooms and have a considerably shorter lead time. Arguably more importantly, the modular approach gave Edwards confidence that their investment could be modified or relocated at a later date according to their production requirements, with minimal disruption or expense.

The actual installation of the cleanroom was a crucial element of a larger project with a tight schedule; as such the Connect 2 Cleanrooms Engineers worked in close cooperation with the client on site to ensure all installation deadlines were met promptly, whilst adhering to good health & safety practice at all times.

Edwards is now able to reduce surface particulate contamination on their assembled EUV vacuum system, during the final assembly and packing stages of production. They were most impressed with the “professional service provided and would recommend C2C”.

Connect 2 Cleanrooms

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About Edwards

Edwards is a leading global technology and environmental business supplying integrated solutions for the manufacture of semiconductors, flat panel displays, LEDs and solar cells as well as vacuum technology for industrial, scientific, process and R&D applications. The company employs approximately 3,000 people worldwide in the design, manufacture and support of high technology vacuum and exhaust management equipment. Edwards invented the concept of the low-maintenance, cost-effective, commercial oil-free 'dry' vacuum pump, while its abatement systems prevent the emission of harmful greenhouse gases making the Edwards' overall carbon footprint negative*

For more information, please visit www.edwardsvacuum.com

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* Greenhouse Gas Protocol - Scope 3 Indirect Emissions