Courtesy translation of the article published in June 2023 issue (n. 6) of Italian magazine 'NCF - Notiziario Chimico Farmaceutico'

Aziende

Biodecontaminazione: flessibile e innovativa



• giugno 2023 • NOTIZIARIO CHIMICO FARMACEUTICO

Bio-decontamination: flexible and innovative

Easypass is the new proposal from Amira to simplify bio-decontamination and transfer of materials from/to clean rooms.

An innovative solution that convinced IBI, an international biopharmaceutical company.

Amira, known internationally for Bioreset® VHP generators, is the ideal partner for companies operating in different industries such as pharmaceutical, biotechnology, research laboratories and hospital, which all require micro-contamination management and control. Easypass is the new revolutionary proposal offered by the company with headquarter in Triuggio (Italy). A winning solution for IBI (Istituto Biochimico Italiano G. Lorenzini Spa) a company that has been producing and selling injectable products all over the world for 100 years. We talked about this project with Emanuele Paesano, GMP Project & Technical Area Manager of IBI and **Angelo Delmiglio**, CEO of Amira.

IBI is a biopharmaceutical company active since 1918.

EP: IBI offers comprehensive CDMO services, including advanced formulation process development and GMP manufacturing of sterile finished products. Our expertise includes the development of solutions and lyophilised powders for chemical and biotechnological active ingredients, such as small molecules, monoclonal antibodies, recombinant proteins, oligonucleotides and nanoparticle technologies. IBI has established a commercial presence in UK, Germany and Italy, exporting to over 20 countries worldwide, including USA, Australia and Europe.

Why were you looking for a solution to bio-decontaminate and transfer materials between areas with different contamination class?

EP: In order to optimise material and personnel flows, we would like to install at the same floor of our microbiological laboratory dedicated rooms for sterility control, as the existing ones were on a different floor of the building. This project implementation was quite difficult due to available space of limited dimension. Thanks to its compactness, Easypass offered new possibilities and enabled the project to be realized. We are now in the final stages of new department qualification.

The reasons for your choice?

EP: Amira offers a definitely innovative solution. A laminar flow mobile pass box equipped with UPS, particle counter, VHP decontamination unit, piping, double H14 filtration at the inlet, outlet H14 filtration with catalysers to break down residual peroxide and HMI compliant with CFR 21.

All integrated in a very small space (less than 4 m³) if compared with fixed 'classic' solutions. In comparison with other proposals, Easypass is a mobile pass box enabling not only materials VHP decontamination in standalone mode, but also to keep the materials sterile during the transferring phase. The laminar flow continuity is ensured by the UPS battery integrated on board. The materials transfer between two different rooms is possible coupling Easypass to its interface (the only fixed part of the system) which is installed in the wall dividing the rooms with different classification levels; it also allows the materials unloading after decontamination.

Easypass is very versatile. As it can connect to several different interfaces, it is possible to use a single wheeled pass box to transfer materials in different departments, instead of installing dedicated pass box in each department. The system is designed to facilitate cleaning and to be able to work even in grade B, C and D areas. In these cases, the interface

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Come nasce Easypass?

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lizzazione del nostro progetto di ci timizzazione flussi laboratorio mi crobiologico. Attualmente, stiamo valutando il suo utilizzo anche pei altre applicazioni nei nostri reparti di produzione. Tutte le fasi del la vendita si sono svolte in manie ra eccelierie, con uno scambio con timo di fisedback reciproci, che hi assicurato i Cattinizzazione dei si stema e un risultato finale piena mente la liteno con i nestri requisi-

Ciuello che caratterizza Amira è un approccio consulenziale in tutti gli aspetti della relazione con il cliente.

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How was Easypass idea born?

AD: Amira has been working in contamination control field with national and international pharmaceutical production companies for many years. This lasting co-operation allowed to perceive a concrete demand for a solution that could simplify bio-decontamination and transfer of materials from/to clean rooms, as well as construction and renovation work required to install new systems in existing structures. Starting from the in-depth study of the requirement, our R&D team was able to design and produce Easypass. This is a unique and revolutionary system for granting material cleanliness grade during transferring and eliminating the risk of microbiological and particle contamination of the transported material. Furthermore, it's a flexible and convenient alternative to other traditional solutions available on the market as it is simple and fast to install as it does not require complex work and reduces the time of inactivity and plant downtime.

In summary, it has been a successful and winning collaboration.

EP: Easypass allowed us to implement our project for microbiological laboratory flows optimization. Currently, we are evaluating its use for other applications in our production departments. All stages of the sale took place in an excellent manner, with a continuous exchange of mutual feedback, which ensured the optimisation of the system and a final result fully in line with our requirements and our needs.

Amira peculiarity is a consultative approach in all aspects of the customer relationship.

AD: We are at the customer's side from pre- to post-sales, giving top priority to specific needs. Even with IBI, we did not stop at a simple 'catalogue' product supply. We immediately established a proactive dialogue with the customer to understand the requirements and identify the peculiarities of the project. Our R&D team worked to adapt the solution, responding fully to the URS and also working during installation with maximum flexibility to meet additional needs identified in the field.

Easypass: a flexible and revolutionary solution

Easypass, a patented solution offering a laminar flow trolley with VHP generator on-board and a fast-docking interface for cleanroom, allows to:

- perform optimised and pre-validated biodecontamination cycles of materials
- grant material cleanliness grade during transferring thanks to the laminar flow available in the chamber
- move the trolley around the working areas easily
- perform fast docking with Grade A-B cleanrooms through the interaction between the trolley and its wall interface.

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