

Egypt Pharmaceutical Factory Cleanroom Solution

Location: Cario, Egypt

Solution: Cleanroom Design & Equipment Procurement

Application: Pharmaceutical Factory Cleanroom

Representative: Ken Kong

Project Background:

Client is the clean room projects contractor and importer of medical production equipments. Client first contacted us at the end of 2018 for cleanroom design of IVF medication's filling workshop. The project being retained multiple times and resumed in 2020.

Clients Need:

The cleanroom area is 170m² and divided into two rooms. The cleanliness requirements are ISO6 (Class 100) and ISO5 (Class 100), Both are positive air pressure cleanrooms. Airwoods provides overall cleanroom design and material procurement for client.

Project Solution:

1. High air change rate and air circulation for ISO 5 or 6 cleanroom. We use FFU for indoor air circulation and purification
2. Porject required variety of cleanroom equipments. Airwoods provided one-stop procurement service. The first stage procurement plan includes FFU and its centralized monitoring system, cleanroom doors, windows, lighting system, escape door, air lock system, cleanroom bench, air shower etc.

Solution Benefit:

1. Using FFU for class 100 cleanroom air purification. Reduce the AHU workload and overall HAVC cost
 2. Provide variety products selection to meet client's project requirements.
- We strictly control the product quality and pay attention to details. We aim to provide optimized solutions, cost-effective prices and great services to our client.

Project Details:

Client's cleanrooms are filling workshop for IVF medication. The cleanroom area is 170m² and divided into two rooms. The cleanliness requirements are ISO6 (Class 100) and ISO5 (Class 100).

Due to the high air changes and ultra cleanliness requirements for ISO 5 and 6 cleanrooms, using traditional air handling unit with laminar air flow diffuser significantly increases the size and cost of AHU, and also requires complex airflow design. In this project, we use modular Fan Filter Units with small AHU for cleanroom air filtration. The solution simplified the ducting system, greatly reduced the size of air handler, optimized the purification result and achieved project cost reduction.

The cleanroom scale is relatively small compared to standard pharmaceutical workshop. Finding a local cleanroom design company increases the cost and time. Airwoods offers free design and consultation. Our outstanding advantage is helping clients to save great amount of time and cost, whenever clients need help, they can find assistance and advice from us. We not only offer products, but also design, installation and after-sale maintenance.

