

Laminar flow HEPA Stations

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Maintaining cleanliness and a safe working environment in an industry is really a delicate job, more so when it is into the manufacturing or research in the fields of bio-technology, medical sciences, semi-conductors, and aerospace or high-end devices like silicon chips and computer hard disk drives. The manufacturing of such devices in a precision based process calls for a safe haven that ensures just the right environment, free from contamination and pollutants. This is where cleanrooms have come in to offer just about all the ingredients that are necessary to control factors like temperature, humidity and pressure.

But, what makes the cleanroom such a safe refuge for the manufacturing of such delicate devices is something that is known as a laminar flow HEPA station. Since, even the slightest presence of contaminants or pollutants can make things go awfully wrong for anything from the assembling of a hard disk drive to a gene therapy research, it is highly important to make sure that the air in the cleanroom is not contaminated. The laminar flow HEPA station does just that, backed by such weapons as a fan filter unit with speed controls that is 99.99% efficient for air velocity of up to 105 feet per minute, cleanroom safe teardrop lighting, and so on.

A laminar flow workstation is just like an industrial work bench that has a heavy gauge tubular steel frame to support the weight of the HEPA fan filter and all the accessories that are part of the station. These laminar flow stations are created with much care to offer maximum efficiency in terms of cleanliness, which is why they are finished in white baked polyurethane powder coating and have acrylic panels at the sides and the back, which are held together by CleanSeal attachment system. And that's just about some of the many specifications that go into the description of a laminar flow HEPA station, which is the most vital aspect of a cleanroom.

The responsibility of a cleanroom just does not end in the manufacture of devices and other scientific research work. Devices like hard disk drives that may have crashed due to some hardware or software gloop make their way to cleanrooms to be diagnosed and repaired if possible. Even data that may have been lost from a storage device can be recovered at cleanrooms. Of course, what makes all these feats possible is the pollution free environment that is created by laminar flow HEPA stations.

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Brooke thom is an author and webmaster writes articles for websites. Versatile work benches at one shop store.

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