THE BETTER OPTION:

ULPA Vs HEPA

The filter is a key component for biosafety cabinet effectiveness. Legacy biosafety cabinets use HEPA filters that are 99.99% efficient while Esco cabinets use filters with 99.999% typical efficiency for particle sizes of 0.1 to 0.3 micron. With this efficiency, the filter that Esco uses is classified as ULPA as per IEST RP CC001.3 and H14 as per EN 1822 EU.

ULPA filters have an efficiency of **99.999%** vs **99.99%** of **HEPA filters**, making ULPA filter **10x** more **efficient** than HEPA filter.

In 1 million spores released on the work zone, only **1 spore escapes** from **ULPA filter** while **10 spores escapes** from **HEPA filter.**

ULPA filters provide an **ISO Class 3** work zone vs **ISO Class 5 of HEPA** filters, thus offering substantially better product protection.

Despite ULPA filter media has 5% higher pressure drop, Esco uses **larger filter media** to have **same filter life (typically 8-10 years) as HEPA filter.**

Despite the higher efficiency, **Esco ULPA filter replacement cost** is about the same as HEPA filter on legacy biosafety cabinets.

At the same filter life and replacement cost, and lower operating cost, Esco advanced biosafety cabinets with ULPA filters reducing the risk of operator infection and experiment failure.

What type of filter your biosafety cabinet is equipped with?

Upgrade to Esco modern biosafety cabinets for improved safety and cost savings.

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