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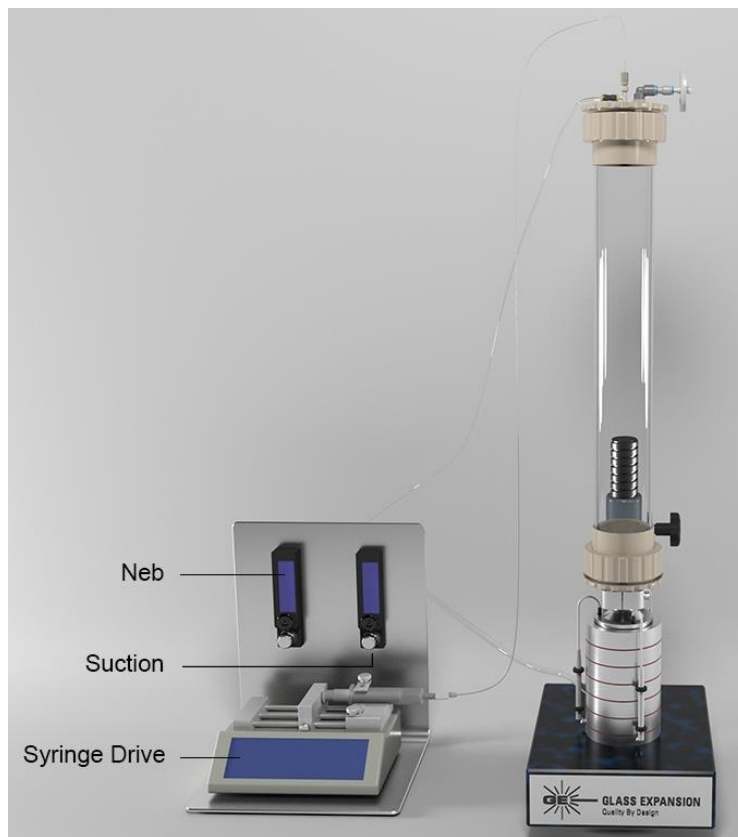
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Glass Expansions Contribution to the Fight Against COVID-19

COVID-19 has reinforced the need for safe, effective Personal Protective Equipment (PPE) around the world. Unfortunately, as a result of coronavirus pandemic, global demand for PPE has increased resulting in a flood of poor-quality, counterfeit equipment onto the market. Ensuring PPE meets international standards is vital to the health and safety of medical staff on the front-line as well as the wider population.

As a response to the flood of counterfeit surgical masks, Glass Expansion (Port Melbourne, Australia) has developed the Bacterial Filtration Efficiency (BFE) testing apparatus for Surgical Masks (SM) based upon EN14683 and ASTM F2101 test methods. Developed in consultation with the Australian Federal Government, National Measurement Institute, the apparatus is designed to deliver an aerosol of 3 ± 0.3 micron mean particle size of Staphylococcus aureus challenge solution at a 28.3 L/min flow rate to a 6-stage cascade impactor using agar plates for particle sizing and quantitation. Accuracy and performance in this application is critical, and the apparatus has been developed in consultation with, and is currently undergoing method validation testing by, the Australian Government's National Measurement Institute (NMI).

The BFE apparatus designed by Glass Expansion, features highly efficient nebulization of the bacterial aerosol at the standard 10 μ L/min challenge flow rate, is easy to use and is autoclavable to prevent cross-contamination between tests.



BFE apparatus with nebulizer, aerosol chamber and stand with optional syringe drive, dual digital flow meters and cascade impactor.

For more information contact Glass Expansion on enquiries@geicp.com.