

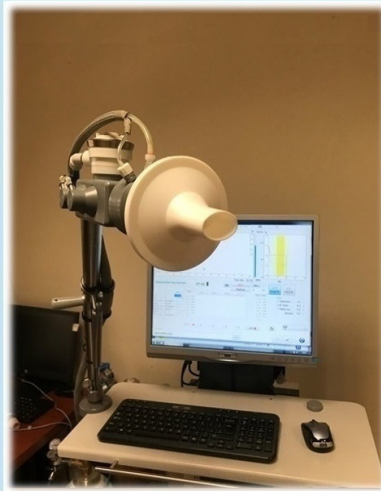
Infection in hospitals affects adversely health of patients and staff and it also increases the costs as causing time extension for the treatment. Meanwhile, rate of infection in a hospital which is an indicator quality in health could be minimized by taking the necessary measures that will prevent the development of infection.

It is known that respiratory equipment applied to patients during the diagnosis and treatment plays a significant role in the development of hospital infection. Importance of bacterial – viral filters that are used with the devices is very great in preventing the infection caused by such devices.

Alerkan Healthcare is one of the world's high quality leading producers in its field with its expert team of 20 years of experience, wide range of product types, customer-focused professional structure and practical solutions.

**Bacterial-Viral Spirometry Filter With Mouthpiece**

- More in-number and in-depth submicrons are prevented through permanently electrostatically charged fibers
- The risk of release of particles caught by electrostatically high charged fibers, is significantly low during the test or filter change
- No need for an extra mouthpiece
- Exclusively designed - to prevent slipperiness and stickiness - and ergonomic mouthpiece to test easier
- Minimum extra resistance except the acceptable filter pad resistance
- Connection without intermediate adaptor to all leader spirometer devices
- Liquid-tight to prevent liquid particles
- Unopenably structured, streamlined, and stabilized sloped chamber in order to prevent pressure loss and other exterior factors during respiratory flow
- Convenient to get used by adult and pediatrics
- Latex free
- Disposable



Alerkan spirometer filters provide more effective filtration and more accurate test results through high efficiency and low resistance.

Electrostatic fibers makes it possible for the media to inhibit particles through the depth of filter rather than preventing the particles from the surface only. Permanently charged fibers inhibit more submicron particles than traditional medias. High charge helps to prevent particles from breaking free and spreading around during utilization and filter change. Each one of 2 surfaces of the disc shaped 3M filter media centered on filtering chamber, covered by an exclusive web layer and their sides are closed through the ultrasonic stitching method. Therefore, the risk of release of fibers - constituents of filter media - is eliminated that it is not possible for the fibers to move towards the patients. Also, the filter's custom-engineered structure totally prevents the pass of liquid particles through blown air during test by constructing a set against liquid particles.

The resistance level except the acceptable level of filter pad resistance, is minimized by the custom-engineered filter chamber. The input and output parts of filtering chamber have a slope that provides easier air-flow. A more efficient filtering activity is provided because the air-flow meets with minimum resistance. Moreover, filtration takes place in a larger surface that enhances the efficiency of filtering activity as well. The 2 plastic pieces of filtering chamber, are welded to have a single part by using the high-tech ultrasonic welding machine. Therefore, the risks of pressure loss and chemical glue are eliminated during air-flow.

All of the raw materials and inputs used in production of the products, are supplied by the companies like 3M that are globally one of the best companies in their fields.

**Technical Specifications**



Bacterial Filtration Efficiency	99,99 %
Viral Filtration Efficiency	99,99 %
Air Flow Resistance	<0,95 cmH2O/L/Sec@14 L/S
Dead Space	<50 ml
Filtration Method	Electrostatik & Mechanic
Filter Media	<b>3M</b> Filter, Hydrophobic, Polypropylene
Weight	40 gr
Surface of Mouthpiece	Special design to prevent the lips slide of the patient
Housing	Polystyrene, Polypropylene
Sealed	Ultrasonically
Quantity / Box	100 pcs
Standards & Directives	MDD 93/42/EEC, EN ISO 13485:2016

Alerkan Healthcare products are produced in approximately 35,000 SqFt area at the integrated plants through advanced technologies, in line with the total quality principles and by targeting the perfection from supplying raw materials to the stage after sale.

The whole production and quality control processes such as R&D, design, injection shaping, ultrasonic cut and welding, montage, packaging, sterilization, and storing take place in our own modern integrated plants, in sterilized rooms with the inspection of the independent audit institutions by strongly applying the GMP rules.

Every raw material and input that are used in the production is original, biologically, chemically and physically tested, has the certificates of appropriateness to health and food, and also is supplied from companies like 3M which are approved as the best brands in the world in their particular field.

