

Healthcare

Extensive Studies Show:

- Three to four million hospital-acquired infections (HAI) occur annually, with **up to 80,000 fatalities**
- Up to one-third of hospital-acquired infections involve **airborne transmission**
- There are **175,268 pages** on IAQ in the U.S. Code of Federal Regulations
- 56% of commercial maintenance teams actually admit that their **IAQ maintenance is not carried out per IAQ guidelines**
- Lack of proper air filtration is the **#1 cause of poor IAQ**



Indoor Air Quality (IAQ) is Critical to Patient and Worker Safety

Clean air is vital in hospital and healthcare facility operations to protect patients, staff, and visitors from airborne diseases and infections, as well as to provide a comfortable, healthy, and odor-free environment.

Healthcare facilities pay particular care to Indoor Air Quality (IAQ) concerns, because patients may have suppressed immune systems, making them more susceptible to adverse health effects. Healthcare workers, who spend many hours a day in facilities with potentially poor IAQ, are frequently at greater risk of exposure to infectious agents. Gaseous contaminants originate from a wide variety of sources, such as vehicle emissions, cleaning compounds, disinfectants, medical laboratories, office equipment, and waste removal areas..

The Air Inside These Facilities Can Contain:

These facilities face unique challenges in controlling airborne pollutants and gaseous contaminants.

- Molds, spores, pollens
- Carbon monoxide, radon, volatile organic compounds (VOCs)
- Bacteria, viruses, and byproducts
- Vehicle engine exhaust, exhaust from industrial plants
- Asbestos, clays, elemental particles, and man-made fibers

Strategic Approach to Air Filtration Solutions for Healthcare

Healthcare facilities pose a unique design challenge for heating, ventilation, and air conditioning (HVAC) system engineers. These systems fulfill a broad range of ventilation requirements and provide protection from airborne hazards. From operating rooms and laboratories to waiting areas and patient rooms—the risks and appropriate safety measures vary from space to space.

Our experts provide total filtration solutions to respond to every area in your healthcare facility—protecting patients, workers, and visitors is what we do.

Sources: Air-treatment systems for controlling hospital-acquired infections, HPAC Engineering, April 2, 2008; Database of state indoor air quality laws, Environmental Law Institute, 2015; Perceptions in the U.S. building industry of the benefits and costs of improving indoor air quality, M. Hamilton et al, 2015; State of the Air 2015, American Lung Association, 2015

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Optimize Your Environment

Faced with an influx of potentially contagious patients and their families, it is clearly imperative to reduce risk by removing airborne contaminants generated inside and outside the doors of the facility. In addition to the effects of contaminants on patients and hospital workers, corrosive gases can damage HVAC units, control rooms and electronic instrumentation, diagnostic equipment, X-ray machines, and office equipment.

A thorough air filter audit of your HVAC Systems is the first step that AAF Flanders takes in order to provide you with professional guidance and analysis for cost savings and risk reduction. By conducting this audit, we will be able to understand your current state and then utilize TCO Diagnostic®, an advanced analytical software tool, to identify how you can improve air quality, energy savings, and operational flexibility while reducing total cost of ownership.

Filtration Solutions

HEPA/ULPA Filters

HEPA filters are the most efficient air filters commercially available. They are used in cleanroom and other applications requiring ultra-clean air—semiconductor, electronics, pharmaceutical manufacturing, food processing, hospitals, and labs. AAF Flanders HEPA filters are individually tested before shipment to ensure they meet rated efficiency and resistance. AAF Flanders HEPA and ULPA filters are available in a variety of efficiencies—from 99.97% tested on .3 μm particles to 99.9995% and higher tested on .1 to .2 μm particles. All filters are available scan-tested.



MEGAcel® II eFRM
(see page 177)

Pleated Filters

The AAF Flanders pleated filters line provides the industry's broadest selection of high performance, high capacity filters, including specialty and standard capacity options. Pleated filters can be used as prefilters to protect and extend the life of higher efficiency, more expensive final filters. In many applications, they are the only filter used in an HVAC system.

Box Filters

These rigid, extended surface filters are ideal for use in all high efficiency applications. The supported pleat filters provide strength and integrity in high flow, turbulent, and variable airflow conditions. These filters are designed to remove airborne biological contaminants in critical areas.



VariCel® VXL
(see page 132)

Bag Filters

Non-supported pocket filters are the most economical, high-efficiency filters available, and an excellent choice for healthcare facilities, automotive paint booths, commercial buildings, and various industrial applications. Designed for high performance in demanding operating conditions, AAF Flanders extended surface pocket filters are perfect as both prefilters and final filters for particulate removal where clean air is required.

Gas-Phase Products

AAF Flanders has assumed an industry leading position with the development of its innovative SAAF product line designed to reduce or eliminate harmful gaseous contaminants. In combination with our expertise in airborne particulate filtration, SAAF products and solutions allow us to develop unique and effective total filtration solutions to protect people, processes, and equipment.