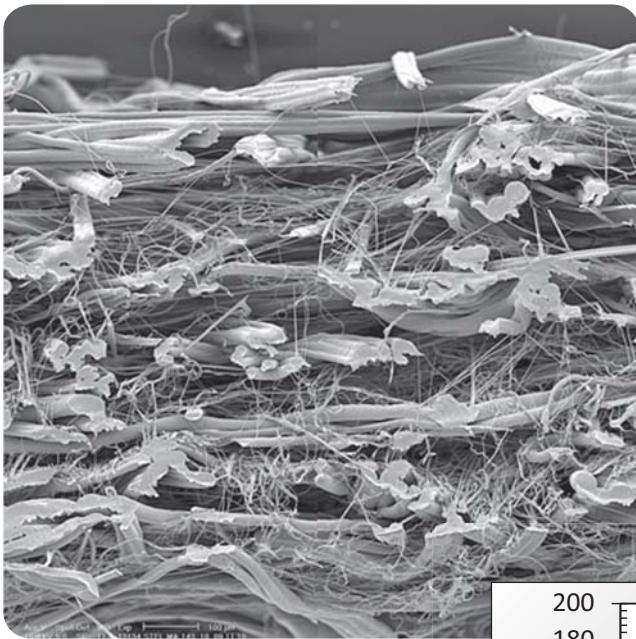




*New!!!*

## SYNTHETIC MINI PLEAT FILTER F7 FprEN 779:2011 / MERV 13-A Appendix J

Our patented single-step production process results in a three-dimensional web of thick and thin fibers (**nanofibers**). The patented fiber technology utilized in this filtration media is the latest in "Media Configuration." The media is **100% polypropylene**, non-shedding and features a **three-dimensional** media design with exceptional performance. It brings into play all the fundamental mechanical principles of particulate capture. Larger particles of dust are caught by larger fibers on the air entering side and progressively smaller particles caught in progressively smaller fibers through the depth of the media. The capture principals of impingement, straining, interception and diffusion are utilized in harmony.



### FEATURES & BENEFITS

- High mechanical efficiency
- Low air flow resistance
- Excellent energy efficiency
- Reduction of filter lifetime cost
- Moisture proof construction
- High air flow capacity
- Resistant to most chemicals
- Will not support microbial growth
- Longer service life
- Will not corrode
- Can be incinerated for disposal
- Durable, damage resistant pleat packs

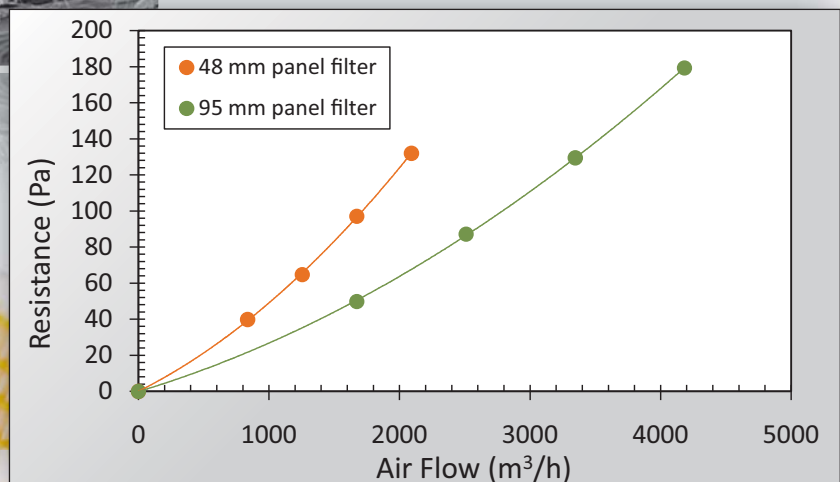


Fig. 1: Resistance to Air Flow (IREMA F7 Nanofiber)



## Economical Filter Lifetime due to excellent Energy Efficiency

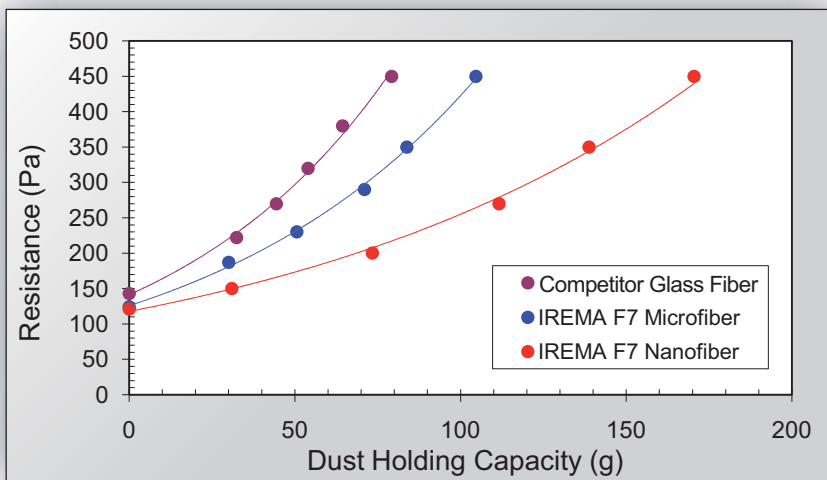
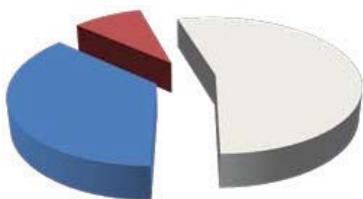


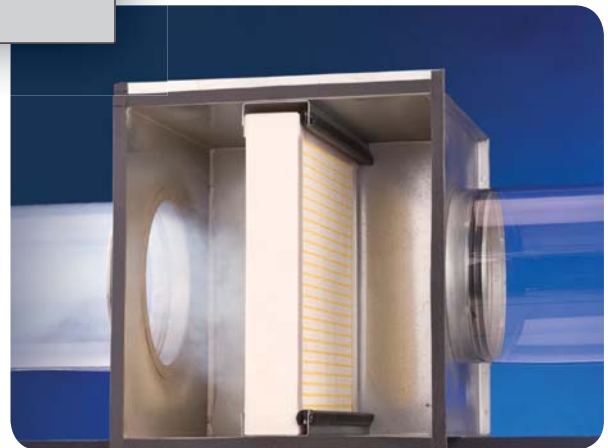
Fig. 2: Dust Holding Capacities of 95 mm Mini-Pleat Panel Filters  
(Test Conditions: 3400 m<sup>3</sup>/h Air Flow, Ashrae Dust, comparable Filter Area)

This "Media Configuration" furthermore excels in its **dust holding capacity** due to the depth loading characteristics through the 3-dimensional structure. It also features an **excellent energy efficiency** taking into account all costs arising during a filter lifetime. The filter may be run much longer because of higher dust loads (frequency of exchange and maintenance) and saves energy costs due to a low pressure drop.

### Typical Filter Lifetime Costs



- costs of purchase
- labour costs
- energy costs



- ✓ Very low energy costs
- ✓ Single-web media
- ✓ High lifetime

### TYPICAL APPLICATIONS

- HVAC
- Power Plants
- Industrial and Commercial Buildings
- Gas Turbine Intake Systems
- Turbulent Airflow
- High Humidity
- Variable Air Volume
- High Velocity Airflow
- Pre-Filters for Clean Rooms
- Food Processing
- Turbines
- Hospitals and Health Care Facilities
- Pharmaceutical Manufacturing
- Educational Institutions
- Micro Processor Manufacturing