



# NANO-V

Rigid Compact Air Filter



## PRESSURE DROP AND BURST PRESSURE TEST



Fig.1: Sample 1

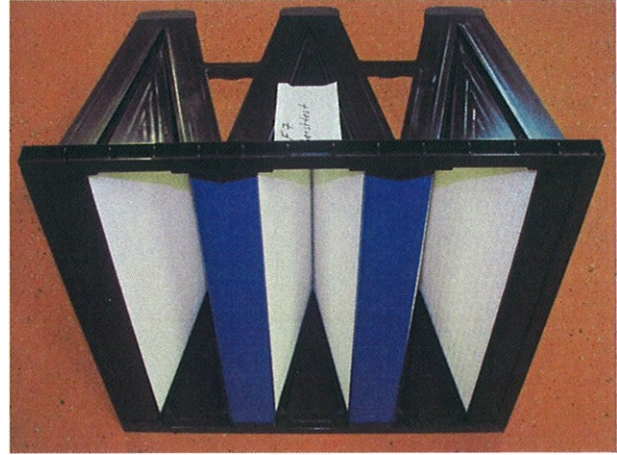


Fig. 2: Sample 2

### 1. Objectives and Test Set-up

On two v-bank-filters the pressure drop and burst pressure test had to be tested according to the test procedure below. For the burst pressure test the filter was loaded with ASHRAE dust at the nominal flow rate.

The test complies with the requirements defined in DIN EN 779:201, air filters for general ventilation applications. This extract can be viewed in its entirety in test report IR 140201 dated 13<sup>th</sup> February 2014 conducted by fiatic Filter & Aerosol Technologie GmbH, Burgkünstadter Str. 3, 95336 Mainleus, Germany

### 2. Test Conditions

Filter dimensions	592x592x292 mm
Air Flow Test	3400 m <sup>3</sup> /hr
Temperature	23°C± 2°C
Test Dust	ASHRAE 52/76
Burst Pressure Test	5000 Pa

### 3. Results

At 3000 Pa the Nano V cell filter showed visible deformation near the plastic retaining frame and in the middle section of the V panels. Test dust could be viewed within that region, indicating some possible leakage. The filter was then tested to 5000 Pa without collapsing



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