

**New: ISO 16890**

**IREMA EcoTitan 3V-Cell**



**Our 100% synthetic rigid bag filter for  
DIN EN ISO 16890:2016**



**Your choice in synthetic!**

- ✓ **Tested and certified according to  
DIN EN ISO 16890:2016**
- ✓ **IREMA's most recent filter media inside**
- ✓ **Highly improved filter lifetime and  
energy efficiency**
- ✓ **Excellent mechanical filtration  
efficiencies**
- ✓ **Optimized filter media usage factor**
- ✓ **Best air flow characteristics**
- ✓ **Outstanding stability and strength**
- ✓ **100 % incinerable**
- ✓ **Waterproof construction**
- ✓ **Will not support microbial growth**
- ✓ **No fiber shedding**
- ✓ **Best replacement handling**

#### **FILTER DESIGN.**

We have brought our **most recent filter media** developments into our 3V-Cell design. Beside passing the ISO 16890 certification these filters also feature a **highly improved filter lifetime** and **energy efficiency**. All this based on a **proprietary multi-layered media** structure with a prefilter layer and progressive depth filtration layers following. All our fibers are produced in a solvent-free, melt-based and environmentally friendly proprietary process and do not contain any chemical binder. The endless fibers are highly **damage resistant** and totally **non-shedding**.

#### **PLEAT TECHNOLOGY.**

IREMA MiniPleats show a **unique fixed pleat design** that leads to the excellent product stability IREMA filters are known for. This technology is also responsible to preserve the perfect V-shaped pleat geometry throughout handling and usage. **Optimum air flow** is assured under all relevant circumstances. Compared to standard 4V products, the pleat height has increased from 22 mm to 34 mm. Our media usage factor is among the highest in the industry.

#### **FRAME TECHNOLOGY.**

EcoTitan 3V-Cells are equipped with an **all plastic, high stiffness polystyrene frame**, which is optimized using latest air flow simulation software. It is designed for pleat pack heights of 34mm and **keeps air flow channels open** for optimum flow characteristics, which is also an asset regarding the energy efficiency of a filter.

#### **APPLICATIONS.**

Synthetic V-Cells are widely used in industrial filtration applications, ensuring **optimum Indoor Air Quality** in plants and factories, cleaning intake air for gas turbines. They also provide exceptional performance in humid environments – thus an excellent choice **for tough applications** and **extended service life**.

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## Technical Data

Product Code	ePM classes ISO 16890	Air Flow [m³/h]		
		2500	3400	4250
V6N32W2	ePM10 55%	25 Pa	44 Pa	63 Pa
V6T92W2	ePM2.5 65%	66 Pa	101 Pa	133 Pa
V6T95W2	ePM1 70%	76 Pa	112 Pa	144 Pa

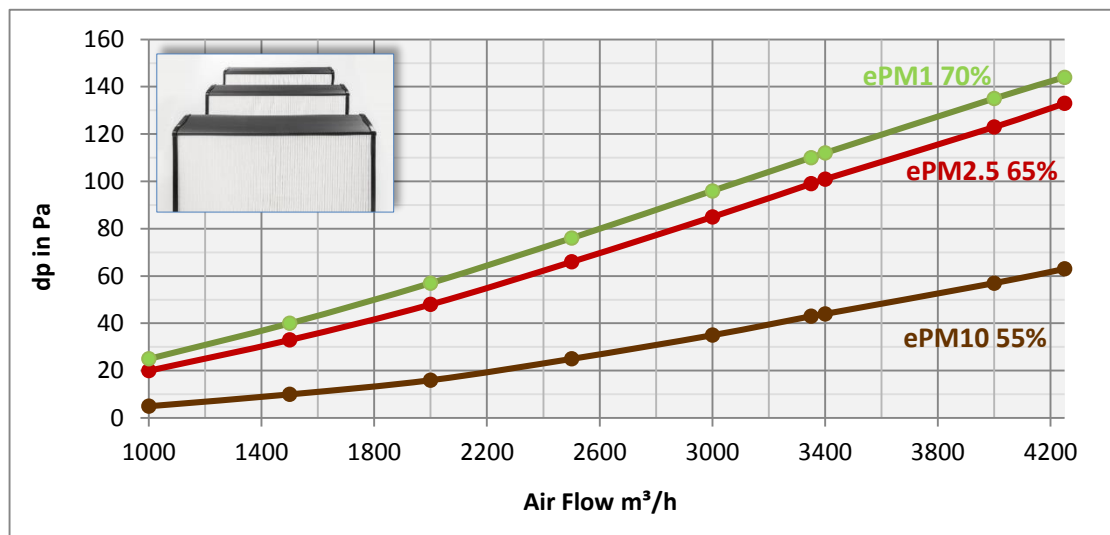


Fig. 1: Pressure drop data of IREMA EcoTitan 3V-Cells (recommended final pressure drop 350 Pa)  
Filter size: 592x592x292mm, 3400 m³/h

- ✓ High mechanical efficiencies with Integrated Nanofiber Technology
- ✓ Inherent antimicrobial properties of 100 % polypropylene pleat packs
- ✓ Completely hydrophobic filter design
- ✓ Continuous operating temperature up to 80°C, short term up to 100°C
- ✓ Can be operated up to 125 % of rated air flow → burst pressure > 2500 Pa
- ✓ In addition tested according to DIN EN 779:2012 → M6, F8 and F9 (test reports upon request)
- ✓ Sizes: 592x592x292mm, 592x287x292mm, 592x490x292mm (25mm header frame; option: 20mm)
- ✓ Worldwide deployed in gas turbine systems, hospitals, schools, office buildings, hotels, automotive plants ... and many more