



The fully synthetic solution
to your filtration needs



New Compact Filter Design EcoTitan 3V-Cell



Make this filter your choice!

- ✓ Best filter media usage factor
- ✓ High mechanical filtration efficiencies
- ✓ Optimized air flow characteristics
- ✓ All EN779:2012 tested
- ✓ All energy rating **B** acc. to Eurovent 4/14
- ✓ Outstanding stability and strength
- ✓ 100 % incinerable
- ✓ Waterproof construction
- ✓ Will not support microbial growth
- ✓ No fiber shedding
- ✓ Best replacement handling

Our newly designed 100% synthetic 3V-Cell -
certified according to the new **EN779:2012**

FILTER DESIGN.

IREMA 3V-Cell filters feature synthetic microfiber filter media with a 3-dimensional, progressive design for optimum dust holding capacities. Our EcoTitan products even contain ultrafine fibers which are uniquely integrated into the filter media to capture the smallest particles. 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 3V-Cell

Product	Efficiency range EN779:2012	Air Flow [m³/h]		
		2500	3400	4250
EcoTitan	M6	27 Pa	47 Pa	73 Pa
EcoTitan	F7	47 Pa	73 Pa	101 Pa
EcoTitan	F8	78 Pa	117 Pa	158 Pa
EcoTitan	F9	98 Pa	145 Pa	190 Pa

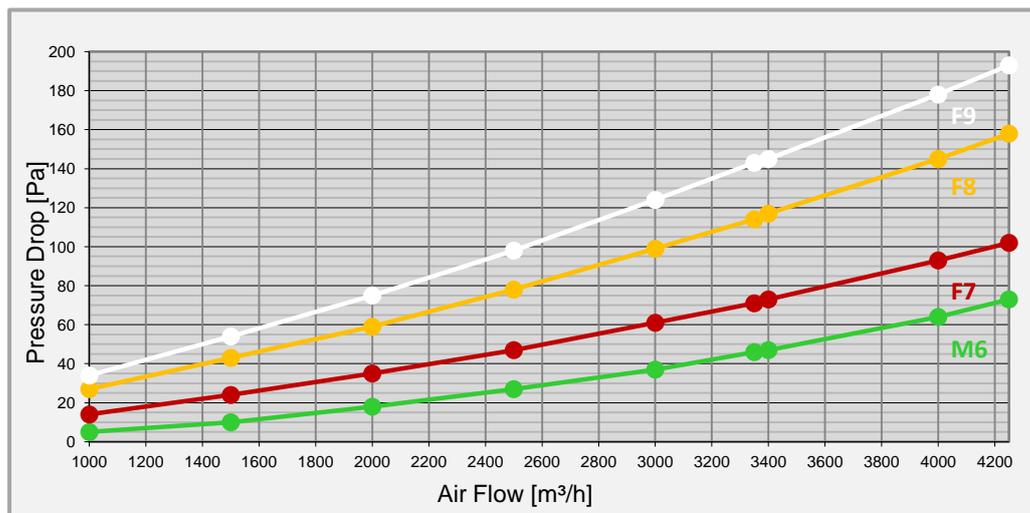


Fig. 1: Pressure drop data of IREMA EcoTitan 3V-Cells (recommended final pressure drop 350 Pa)
Filter size: 592x592x292mm, 3400 m³/h

- ✓ High mechanical efficiencies with Integrated Nanofiber Technology – independently tested
- ✓ 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
- ✓ New software optimized 3V-design for optimized air flow characteristics
- ✓ New pleat height: 34 mm compared to standard 22 mm V-Cells
- ✓ Worldwide applications in gas turbines, hospitals, schools, office buildings, hotels, automotive plants ... and many more