

## ▶ Filter Technology from A to Z ▶▶

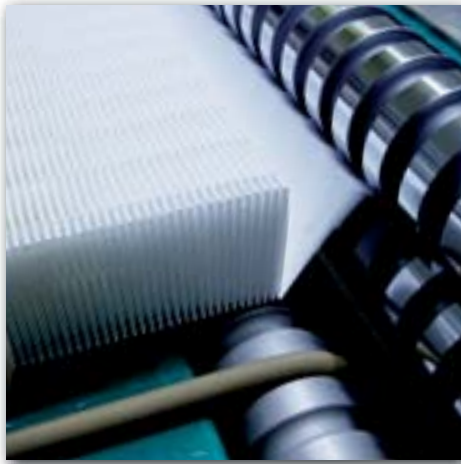
Filter units and filter elements  
from TROX

## ► Everything from a single source ►►



TROX is the world's leading developer and manufacturer of components and systems for the ventilation and air conditioning of all types of buildings. Whether you require an air handling unit, air terminal devices, controllers, intelligent control systems or filters, TROX offers components that are perfectly complimentary to each other, all from a single source.

The company's in-house R&D department ensures not only a steady degree of innovation in product development, but also the application of the latest standards in production and quality assurance.



### **A suitable filter solution for every requirement**

With an extensive and diverse filter portfolio, TROX has suitable filter units and filter elements for the most varied installation situations and fields of application.

Installed in walls, ducts, ceilings or air handling units, whether in schools, production facilities or pharmaceutical laboratories, TROX filters are used all over the world.

They satisfy the most stringent quality requirements, comply with international standards and impress with minimal pressure losses, hence ensuring long service lives.



For more information  
please visit [www.troxtechnik.com](http://www.troxtechnik.com)

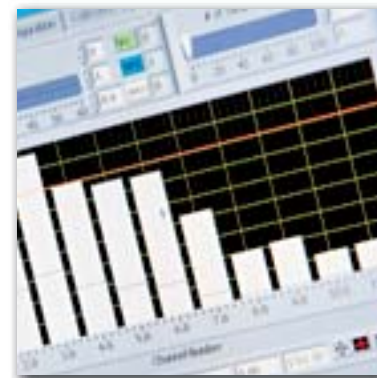
## ► Certified safety solutions ►►

### Tested to international standards

Filter elements and filter units have to meet stringent hygiene requirements and are tested in accordance with international standards.

Ultimately, functional reliability in the respective filter class needs to be ensured for as long as possible. The efficiency of the filters is tested to either EN 779 or EN 1822, depending on the type of filter. For example, all TROX fine dust filters of filter classes M5 to F9 are tested to EN 779 and certified by EUROVENT.

TROX has its own state-of-the-art test rig for the testing of coarse and fine dust filters to EN 779 and of particulate filters to EN 1822. The test rig meets the highest standards of filter testing and has been verified in a round robin test with the accredited testing institutes SP in Sweden and VTT in Finland.





















### Quality assurance at TROX















To ensure that TROX does justice to the 'Made in Germany' brand around the world, the same quality assurance procedures are performed at each production site.

While most components are factory tested, safety-related components are tested by an accredited materials testing institute in Germany.

Particles	Filter class	Construction style
 <p><b>Coarse dust filters, particle size &gt; 10 µm</b></p> <p>Insects, textile threads, sand, flue ash, pollen, spores, cement dust, carbon dust</p>	<p>G3 G4</p>	<p>FMC automatic roll filter medium FMR roll media made of glass fibres and chemical fibres FMP filter medium as roll media or cut-to-size pads ZL Z-line filters PFC pocket filters made of non-woven chemical fibres</p>
 <p><b>Fine dust filters, particle size 1 – 10 µm</b></p> <p>Pollen, spores, cement dust, bacteria and germs Aerosol insecticides Oil spray and accumulated soot Tobacco smoke, metallic oxide smoke</p>	<p>M5 M6 F7 F8 F9</p>	<p>FMR roll media made of glass fibres or chemical fibres FMP filter medium as roll media or cut-to-size pads ZL Z-line filters PFC pocket filters made of non-woven chemical fibres PFS pocket filters made of non-woven synthetic fibres PFG pocket filters made of non-woven glass fibres PFN pocket filters made of NanoWave® medium MFI Mini Pleat filter inserts MFE Mini Pleat filter elements MFC Mini Pleat filter cells MFP Mini Pleat filter panels</p>
 <p><b>Particulate filters, particle size &lt; 1 µm</b></p> <p>Bacteria and viruses Tobacco smoke Metallic oxide smoke Asbestos dust</p>	<p>E10 E11 H13</p>	<p>MFI Mini Pleat filter inserts MFE Mini Pleat filter elements MFC Mini Pleat filter cells MFP Mini Pleat filter panels</p>
 <p><b>Particulate filters for clean room technology, particle size &lt; 1 µm</b></p> <p>Various stages of oil vapour and soot, suspended radioactive particles</p>	<p>H13 H14</p>	<p>MFI Mini Pleat filter inserts MFE Mini Pleat filter elements MFC Mini Pleat filter cells MFP Mini Pleat filter panels</p>
<p>Aerosols</p>	<p>H14 U15 U16</p>	<p>MFPCR Mini Pleat filter panels for clean room technology</p>

Area of application	Examples	
Prefilters and recirculated air filters	Civilian shelters	
Extract air	Paint spray booths and kitchen extract air	
Used to protect air handling units and compact units from contamination	Room air conditioners, fans	
Prefilters	For filter classes M5 to F9	
Fresh air filters for rooms with low requirements	Factory buildings, storage rooms, garages	
Prefilters and recirculated air filters	Ventilation plant rooms	
Prefilters in air conditioning systems	For filter classes F7 to F9	
Final filters in air conditioning systems	Sales rooms, department stores, offices, central control rooms, hospitals	
Prefilters	For filter classes E11, E12 and H13	
Final filters	<p>Laboratories, production rooms in the food processing and pharmaceutical industries</p> <p>Precision mechanics, optical and electronic industries</p> <p>Medicine</p>	
Final filters for the most critical requirements	For rooms categorised as ISO class 1 to 9 in accordance with EN-ISO 14644-1	

	Filter elements	For filter unit types	
Filter media	Automatic roll filter media FMC	Automatic roll filter units	
	Roll media FMR	Automatic roll filter units	
	Cut-to-size pads FMP	SIF, SCF	
	Z-line filters ZL	SCF-B	
Pocket filters	Pocket filters made of non-woven chemical fibres PFC	SIF, UCA, SCF	
	Pocket filters made of non-woven synthetic fibres PFS	SIF, UCA, SCF	
	Pocket filters made of NanoWave® PFN	SIF, UCA, SCF	
	Pocket filters made of non-woven glass fibres PFG	SIF, UCA, SCF	
Mini Pleat filters	Filter inserts MFI	SIF, UCA, SCF	
	Filter elements MFE		
	Filter cells MFC	KSF, KSFS, KSFSSP, DCA, TFW	
	Filter panels MFP	TFC, TFW, TFP, KSF, KSFS, KSFSSP, TFM	
	Filter cartridges MFCA		
	Filter panels for clean room technology MFPCR		
	Filter panels with hood FHD		
Activated carbon filters	Filter inserts ACFI	SIF, UCA, SCF	
	Filter cartridges ACFC	MP, UCA	
	Filter cells ACF	KSF, KSFS, KSFSSP, DCA	

	Filter units	For filter types	
	Standard cell frame SCF	PFC, PFS, PFN, PFG, MFI, ACFI, MFP-PLA, ZL, FMP-PAD	Filter frames for wall installation
	Filter wall SIF	PFC, PFS, PFN, PFG, MFI, ACFI, MFP-PLA, ZL, FMP-PAD	
	Mounting frame MF	MFI-SPC	
	Mounting plates MP	ACFC	
	Universal casing UCA	PFC, PFS, PFN, PFG, MFI, ACFI, ACFC, MFP-PLA	
	Ducted particulate filter KSF	MFP, MFC, ACF	
	Ducted particulate filter for critical requirements KSFS	MFP, MFC, ACF	
	Spigot KSFSSP	MFP, MFC, ACF, KSFS	
	Duct casing for particulate filters DCA	MFP, MFC, ACF	
	Ceiling mounted particulate filters TFC	MFP	Particulate filter air terminal devices
	Wall mounted particulate filter TFW	MFP	
	Particulate filter modules for ceilings TFM	MFP	
	Pharmaceutical clean room terminal filters TFP	MFP	
	Pressure measuring devices MD		



**TROX<sup>®</sup> TECHNIK**  
The art of handling air

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