

## ▶ Filter Technology from A to Z ▶▶

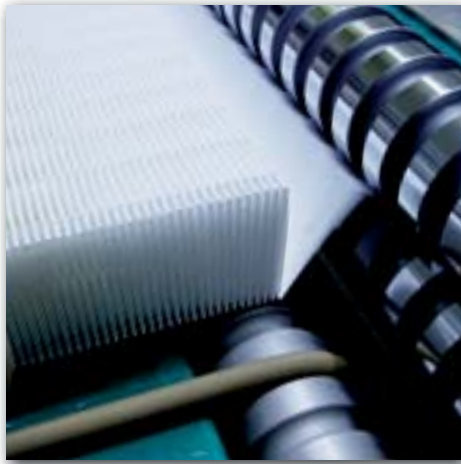
Filter units and filter elements  
from TROX

## ► 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)

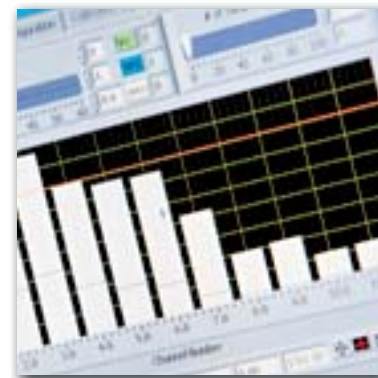
## ► Certified safety solutions ►►

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