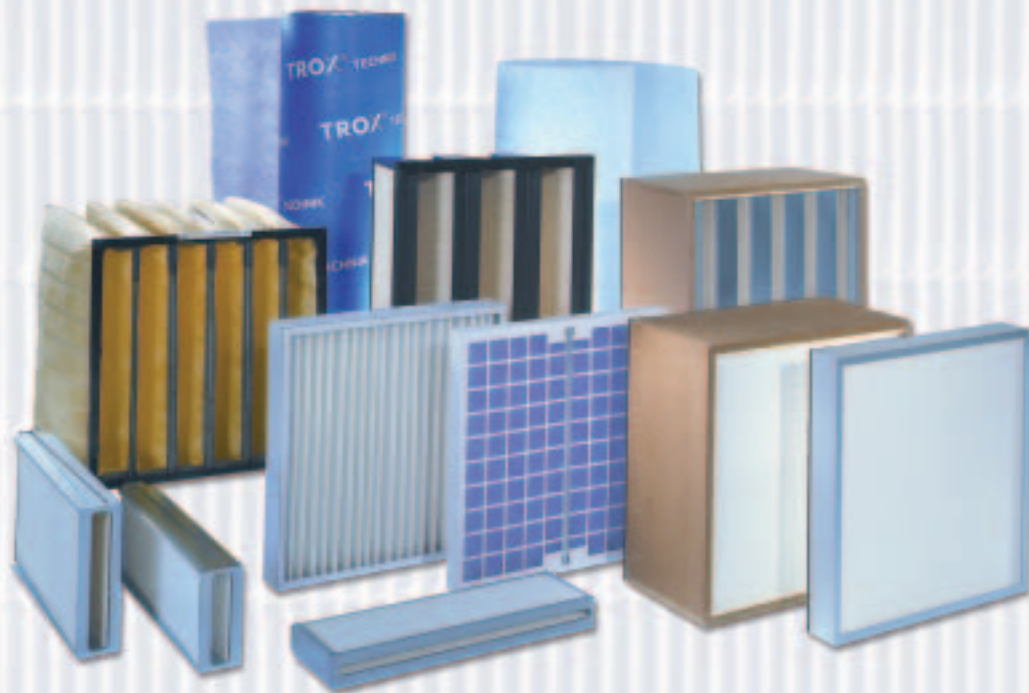


Filter elements

Coarse dust, fine dust, and particulate filters

- » Coarse dust, fine dust, and particulate filter elements for ventilation systems
- » Energy cost savings of up to 40% due to specially developed filter media
- » For TROX units as well as the units of other manufacturers



Content overview

Product selection	2	Minipleat filter inserts	8
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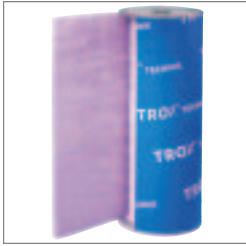
Product selection

	Filter class according to EN 779	Average arrestance A_m in % Average efficiency E_m in %	Product designation	Filter type	Page
Coarse dust filters	G3	$80 \leq A_m < 90$	Filter media for automatic roll filter	TROX-o-fil F702, F721	3
			Filter pads and cardboard frame filters	TROX-o-fil F702	3
Filter pads and roll media			F703, F704	4	
Fine dust filters	G4	$90 \leq A_m$	Filter pads and roll media	F711, F715	4
			Z-Line filters	F718	5
	Pocket filter inserts	F743	6		
	F5	$40 \leq E_m < 60$	Filter pads and roll media	F706	4
			Z-Line filters	F719	5
			Pocket filter inserts	F725, F744, F745	6, 7
	F6	$60 \leq E_m < 80$	Pocket filter inserts	F726, F746	7
			Minipleat filter inserts	F756	8
			Minipleat filter cells	F756	11
			Minipleat filter panels	F756	12
Compact fine dust filters			F736	15	
F7	$80 \leq E_m < 90$	Pocket filter inserts	F728, F748	7	
		Minipleat filter inserts	F757	8	
		Minipleat filter cells	F757	11	
		Minipleat filter panels	F757	12	
Compact fine dust filters	F737	15			
F8	$90 \leq E_m < 95$	Pocket filter inserts	F729	7	
F9	$95 \leq E_m$	Pocket filter inserts	F749	7	
		Minipleat filter inserts	F759	8	
		Minipleat filter elements	F759	9	
		Minipleat filter cells	F759	11	
		Minipleat filter panels	F759	12	
Compact fine dust filters	F739	15			

	Filter class according to EN 1822	Efficiency (MPPS) according to EN 1822 in %	Product designation	Filter type	Page
Particulate filters (HEPA and ULPA).	E10	> 85	Minipleat filter inserts	F779	8
	E11	> 95	Minipleat filter inserts	F780	8
			Minipleat filter elements	F780	9
			Minipleat filter cells	F780	11
			Minipleat filter panels	F780	13
	HEPA filter cells	F770	16		
	H13	> 99.95	Minipleat filter inserts	F781	8
			Minipleat filter elements	F781	9
Filter cartridges			F781	10	
Minipleat filter cells			F781	11	
Minipleat filter panels			F781	13	
HEPA filter cells	F771	16			
H14	> 99.995	Minipleat filter inserts	F782	8	
		Minipleat filter cells	F782	11	
		Minipleat filter panels	F782	13, 14	
U15	> 99.9995	Minipleat filter panels	F783	14	
U16	> 99.99995	Minipleat filter panels	F784	14	

			Product designation	Filter type	Page
Activated carbon filters			Activated carbon filter cartridges	F760	17
			Activated carbon filter cells	F760	18
			Activated carbon filter inserts	F760	19

Detail



Automatic roll filter media

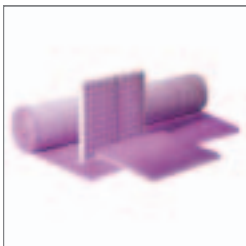
- » **Application**
Separation of coarse dust in ventilation systems.
- » **Filter types**
 - Type TROX-o-fil F702 (G3)
 - Type F721 (G3)
- » **Material**
 - TROX-o-fil F702: Nonwoven glass-fibre filter media sprayed with dust binding agent, resulting in an increased arrestance and prevention of dust carry over.
 - F721: Filter media made of nonwoven chemical fibres.
- » **Construction**
 - For all TROX-o-mat automatic roll filter units: in a cassette.
 - For the automatic roll filter units of other manufacturers: on cardboard tubing or on a steel spool.
 - Dimensions correspond to the unit width, filter length: 20 m.
- » **Associated TROX filter units**
TROX-o-mat automatic roll filter (F1/1/././.).

Technical data

Filter type		TROX-o-fil F702	F721
Filter class according to EN 779		G3	G3
Average arrestance according to EN 779	in %	86	86
Nominal upstream velocity	in m/s	3.1	2.5
Initial differential pressure at nominal volume flow rate	in Pa	80	80
Max. operating temperature	in °C	100	100

Table 1: Technical data for filter types TROX-o-fil F702 and F721

Detail



Filter pads and frame filters

- » **Application**
Separation of coarse dust in ventilation systems.
- » **Filter type**
 - Type TROX-o-fil F702 (G3)
- » **Material**
Nonwoven glass-fibre filter media sprayed with dust binding agent, resulting in an increased arrestance and prevention of dust carry over.
- » **Construction**
Available in standard and special sizes:
 - Roll media
 - Filter pads cut-to-size
 - Cardboard frame filters
- » **Associated TROX filter units**
Standard cell frames for wall installation (F2/1/././.).

Technical data

Filter type		TROX-o-fil F702
Filter class according to EN 779		G3
Average arrestance according to EN 779	in %	86
Nominal upstream velocity	in m/s	2.5
Initial differential pressure at nominal volume flow rate	in Pa	60
Max. operating temperature	in °C	100

Table 2: Technical data for Type TROX-o-fil F702 filter pads and cardboard frame filters

Filter pads and roll media

Detail



Filter media F703,
F704

- » **Application**
Separation of coarse dust in ventilation systems.
- » **Filter types**
 - Type F703 (G3)
 - Type F704 (G3)
 - Type F711 (G4)
 - Type F715 (G4)
- » **Material**
Filter media made of nonwoven synthetic fibres.
- » **Construction**
Available in standard and special sizes:
 - Roll media
 - Filter pads cut-to-size
- » **Associated TROX filter units**
Standard cell frames for wall installation (F2/1/./..).

Technical data

Filter type		F703	F704	F711	F715
Filter class according to EN 779		G3	G3	G4	G4
Average arrestance according to EN 779	in %	82	86	90	90
Nominal upstream velocity	in m/s	1.5	1.5	1.5	1.5
Initial differential pressure at nominal volume flow rate	in Pa	30	40	50	50
Max. operating temperature	in °C	100	100	100	100

Table 3: Technical data for filter types F703, F704, F711, and F715

Detail



Fine dust filter media
F706

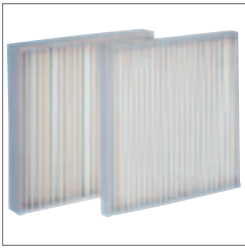
- » **Application**
Separation of fine dust in ventilation systems with demanding requirements.
- » **Filter type**
 - Type F706 (F5)
- » **Material**
Filter media made of nonwoven synthetic fibres.
- » **Construction**
Available in standard and special sizes:
 - Roll media
 - Filter pads cut-to-size
- » **Associated TROX filter units**
Standard cell frames for wall installation (F2/1/./..).

Technical data

Filter type		F706
Filter class according to EN 779		F5
Average arrestance according to EN 779	in %	96
Average efficiency according to EN 779	in %	47
Nominal upstream velocity	in m/s	0.9
Initial differential pressure at nominal volume flow rate	in Pa	90
Max. operating temperature	in °C	100

Table 4: Technical data for filter type F706

Detail



Z-line filters

» Application

- Coarse dust filter: Prefilter in ventilation systems for the separation of coarse dust.
- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

» Filter types

- Coarse dust filter
- Type F718 (G4)
- Fine dust filters
- Type F719 (F5)

» Material

Filter pack made of nonwoven synthetic fibres.

» Construction

Moisture-resistant, rigid filter frame. Available in various filter classes and sizes including commercial installation depths and cross-sections.

» Characteristics

- High dust holding capacity at a low differential pressure.
- Long service life and maintenance intervals.
- Quick and easy fitting and removal.
- Light weight and low volume.
- Can be easily and safely disposed of in municipal refuse incineration plants as emissions are low in harmful substances.

» Associated TROX filter units

Standard cell frames for wall installation (F2/1/././.).

Technical data

Filter type		F718	F719
Filter class according to EN 779		G4	F5
Average arrestance according to EN 779	in %	91	> 98
Average efficiency according to EN 779	in %	30	45
Max. operating temperature	in °C	80	80
Max. relative humidity	in %	100	100

Table 5: Technical data for filter types F718 and F719

Pocket filter inserts made of nonwoven chemical fibres

Detail



Pocket filter insert made of nonwoven chemical fibres

» Application

- Coarse dust filter: Prefilter in ventilation systems for the separation of coarse dust.
- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

» Filter types

- Type F743 (G4)
- Type F745 (F5)

» Material

Filter pockets made of nonwoven chemical fibres.

» Construction

Front frame made of plastic or metal.

» Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././.).
- Universal casings for duct installation (F3/1/././.).

Technical data

For the technical data, see Leaflet F7/2/././...

Filter type		F743	F745
Pocket depth	in mm	360	650
Filter class according to EN 779		G4	F5
Average arrestance according to EN 779	in %	90	96
Average efficiency according to EN 779	in %	-	47
Initial differential pressure at nominal volume flow rate	in Pa	35	40
Recommended final differential pressure	in Pa	200...250	200...250
Max. operating temperature for plastic frames	in °C	70	70
Max. operating temperature for metal frames	in °C	90	90

Table 6: Technical data for filter types F743 and F745

Detail



Pocket filter insert made of nonwoven synthetic fibres

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

» Filter types

- Type F725 (F5)
- Type F726 (F6)
- Type F728 (F7)
- Type F729 (F8)

» Material

Filter pockets made of nonwoven synthetic fibres.

» Construction

Front frame made of plastic or metal.

» Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).

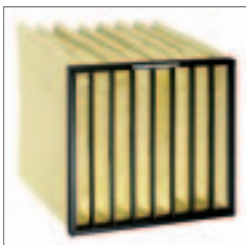
Technical data

For the technical data, see Leaflet F7/3/././...

Filter type		F725	F726	F728	F729
Filter class according to EN 779		F5	F6	F7	F8
Average arrestance according to EN 779	in %	96	> 98	> 98	> 98
Average efficiency according to EN 779	in %	55	65	85	92
Initial differential pressure at nominal volume flow rate: pocket depth 600 mm	in Pa	50	70	100	140
Recommended final differential pressure	in Pa	250...350	250...350	250...350	250...350
Max. operating temperature for plastic frames	in °C	60	60	60	60
Max. operating temperature for metal frames	in °C	90	90	90	90

Table 7: Technical data for filter types F725, F726, F728, and F729

Detail



Pocket filter insert made of nonwoven glass fibres

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

» Filter types

- Type F744 (F5)
- Type F746 (F6)
- Type F748 (F7)
- Type F749 (F9)

» Material

Filter pockets made of nonwoven glass fibres.

» Construction

Front frame made of plastic or metal.

» Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).

Technical data

For the technical data, see Leaflet F7/4/././...

Filter type		F744	F746	F748	F749
Filter class according to EN 779		F5	F6	F7	F9
Average arrestance according to EN 779	in %	98	> 98	> 98	> 98
Average efficiency according to EN 779	in %	55	65	85	> 95
Initial differential pressure at nominal volume flow rate: pocket depth 600 mm	in Pa	50	70	100	140
Initial differential pressure at nominal volume flow rate: pocket depth 700 mm	in Pa	50	60	80	120
Recommended final differential pressure	in Pa	250...350	250...350	250...350	250...350
Max. operating temperature for plastic frames	in °C	60	60	60	60
Max. operating temperature for metal frames	in °C	90	90	90	90

Table 8: Technical data for filter types F744, F746, F748, and F749

Minipleat filter inserts

Detail



Minipleat filter inserts

For the technical data, see Leaflet F7/5/././...

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.
- HEPA filters: Main or final filter for very critical requirements of air purity and sterility for the separation of suspended particles or aerosols, toxic dusts, viruses, bacteria, etc. from the supply or extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Fine dust filters
- Type F756 (F6)
 - Type F757 (F7)
 - Type F759 (F9)
- HEPA filters
- Type F779 (E10)
 - Type F780 (E11)
 - Type F781 (H13)
 - Type F782 (H14)

» Material

Filter packs made of high-quality, moisture-resistant glass-fibre paper.

» Construction

The frame consists of plastic or galvanised sheet steel, and additionally, depending on construction, with stoved enamel finish.

» Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././..).
- Mounting frame for minipleat filter inserts (F2/1.2/././..).
- Universal casings for duct installation (F3/1/././..).

Technical data for fine dust filters

Filter type		F756	F757	F759
Filter class according to EN 779		F6	F7	F9
Average efficiency according to EN 779	in %	65	85	95
Initial differential pressure at nominal volume flow rate	in Pa	90	110	140
Recommended final differential pressure	in Pa	450	450	450
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

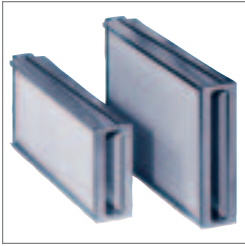
Table 9: Technical data for filter types F756, F757, and F759

Technical data for HEPA filters

Filter type		F779	F780	F781	F782
Filter class according to EN 1822		E10	E11	H13	H14
Efficiency (MPPS) according to EN 1822	in %	> 85	> 95	>99.95	> 99.995
Initial differential pressure at nominal volume flow rate	in Pa	160	160	265	300
Recommended final differential pressure	in Pa	450	450	600	600
Max. operating temperature	in °C	80	80	80	80
Max. relative humidity	in %	100	100	100	100

Table 10: Technical data for filter types F779, F780, F781, and F782

Detail



Minipleat filter elements

For the technical data, see Leaflet F7/6/./...

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust from supply or extract air.
- HEPA filters: Main or final filter for very demanding requirements of air purity and sterility for the separation of suspended particles or aerosols, toxic dusts, viruses, bacteria, etc. from the supply or extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Fine dust filters
 - Type F759 (F9)
- HEPA filters
 - Type F780 (E11)
 - Type F781 (H13)

» Material

Filter packs made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of galvanised sheet steel or sheet aluminium.

Technical data for fine dust filters

Filter type		F759
Filter class according to EN 779		F9
Average efficiency according to EN 779	in %	95
Initial differential pressure at nominal volume flow rate: code no. 10	in Pa	50
Recommended final differential pressure: code no. 10	in Pa	130
Initial differential pressure at nominal volume flow rate: code nos. 11 and 12	in Pa	120
Recommended final differential pressure: code nos. 11 and 12	in Pa	300
Max. operating temperature	in °C	100
Max. relative humidity	in %	100

Table 11: Technical data for filter type F759

Technical data for HEPA filters

Filter type		F780	F781
Filter class according to EN 1822		E11	H13
Efficiency (MPPS) according to EN 1822	in %	> 95	> 99.95
Initial differential pressure at nominal volume flow rate: code no. 10	in Pa	140	160
Recommended final differential pressure: code no. 10	in Pa	400	500
Initial differential pressure at nominal volume flow rate: code nos. 11 and 12	in Pa	190	220
Recommended final differential pressure: code nos. 11 and 12	in Pa	550	700
Max. operating temperature	in °C	100	100
Max. relative humidity	in %	100	100

Table 12: Technical data for filter types F780 and F781

Filter cartridges

Detail



Filter cartridge

» Application

HEPA filters: Main filters used for the most critical requirements of air purity and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering. Separation of suspended particles or aerosols, toxic dusts, viruses, bacteria etc. from the supply or extract air in ventilation systems.

» Filter type

- Type F781 (H13)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Aluminium casing and perforated sheet metal with powder coating, equipped with a continuous seal.

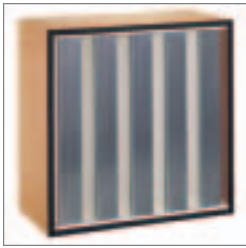
Technical data

Standard version available in three sizes.

Filter type		F781
Filter class according to EN 1822		H13
Efficiency (MPPS) according to EN 1822	in %	> 99.95
Initial differential pressure at nominal volume flow rate	in Pa	250
Recommended final differential pressure	in Pa	400
Max. operating temperature	in °C	80

Table 13: Technical data for filter type F781

Detail



Minipleat filter cell

For the technical data, see Leaflet F7/7/./...

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.
- HEPA filters: Main or final filter for very demanding requirements of air purity and sterility for the separation of suspended particles or aerosols, toxic dusts, viruses, bacteria, etc. from the supply or extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Fine dust filters
- Type F756 (F6)
 - Type F757 (F7)
 - Type F759 (F9)
- HEPA filters
- Type F780 (E11)
 - Type F781 (H13)
 - Type F782 (H14)

» Material

Filter packs made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of MDF, galvanised sheet steel, or stainless sheet steel, construction variant with protection grid.

» Associated TROX filter units

- Ducted HEPA filter units, available in various sizes as individual units or as filter unit systems (F3/3/././..).
- Duct casing, available in various casing widths and heights (F3/4/././..).

Technical data for fine dust filters

Filter type		F756	F757	F759
Filter class according to EN 779		F6	F7	F9
Average efficiency according to EN 779	in %	65	85	95
Initial differential pressure at nominal volume flow rate	in Pa	90	110	140
Recommended final differential pressure	in Pa	450	450	450
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 14: Technical data for filter types F756, F757, and F759

Technical data for HEPA filters

Filter type		F780	F781	F782
Filter class according to EN 1822		E11	H13	H14
Efficiency (MPPS) according to EN 1822	in %	> 95	> 99.95	> 99.995
Initial differential pressure at nominal volume flow rate	in Pa	125	250	250
Recommended final differential pressure	in Pa	300	600	600
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 15: Technical data for filter types F780, F781, and F782

Minipleat filter panels used as fine dust filters

Detail



Minipleat filter panel

» Application

- Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

» Filter types

- Type F756 (F6)
- Type F757 (F7)
- Type F759 (F9)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of MDF, galvanised sheet steel, stainless sheet steel, or plastic.

» Associated TROX filter units

- Ducted HEPA filter units; available in various sizes as individual units or as filter unit systems (F3/3/././..).
- Standard cell frames for wall installation (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).

Technical data

For the technical data, see Leaflet F7/8/././...

Filter type		F756	F757	F759
Filter class according to EN 779		F6	F7	F9
Average efficiency according to EN 779	in %	65	85	95
Initial differential pressure at nominal volume flow rate	in Pa	90	110	150
Recommended final differential pressure	in Pa	450	450	450
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 16: Technical data for filter types F756, F757, and F759

Detail



Minipleat filter panel

» Application

HEPA filters: Main or final filters used for the most critical requirements of air purity and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering.

Separation of suspended particles or aerosols, toxic dusts, viruses, bacteria etc. from the supply or extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Type F780 (E11)
- Type F781 (H13)
- Type F782 (H14)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of MDF, galvanised sheet steel, stainless sheet steel, or extruded aluminium profile.

Equipped with flat section seal in the standard construction, variant with test groove gasket and continuous seal available; construction U and V with fluid seal.

Construction variant with protection grid.

» Associated TROX filter units

- Ducted HEPA filter unit; available in various sizes as individual units or as filter unit systems (F3/3/././..).
- HEPA terminal filter units; available in various constructions and dimensions (F6/1/././..).

Technical data

For the technical data, see Leaflet F7/9/././...

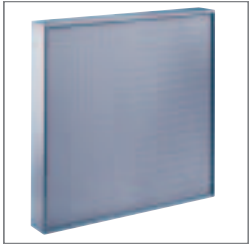
Filter type		F780	F781	F782
Filter class according to EN 1822		E11	H13	H14
Efficiency (MPPS) according to EN 1822	in %	> 95	> 99.95	> 99.995
Initial differential pressure at nominal volume flow rate	in Pa	125	250	120/140 ¹⁾
Recommended final differential pressure	in Pa	300	600	600
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 17: Technical data for filter types F780, F781, and F782

1) Based on construction

Minipleat filter panels for clean room technology

Detail



Minipleat filter panel

» Application

Final filter elements used for the most critical requirements of air purity and sterility in sensitive areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering.
Separation of suspended particles or aerosols, toxic dust, viruses, bacteria, and micro-organisms from supply or extract air in clean room plants with controlled air purity and air flow.

» Filter types

- Type F782 (H14)
- Type F783 (U15)
- Type F784 (U16)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

- B = Frame made of anodised extruded aluminium profile (depth 69 mm)
- C = Frame made of anodised extruded aluminium profile (depth 78 mm)
- G = Frame made of anodised extruded aluminium profile (depth 90 mm)

» Equipment

Minipleat filter panels are available in various constructions and dimensions, with or without protection grid, alternatively with a seal on both sides, a fluid seal, or a knife edge profile.

» Characteristics

- Optimum pleat geometry of the filter pack
- Low initial differential pressure at higher filtration performance.
- Uniform air discharge on downstream side.

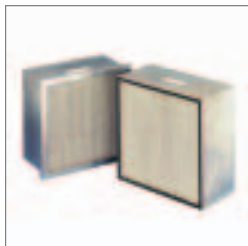
Technical data

For the technical data, see Leaflet F7/10/./...

Filter type		F782	F783	F784
Filter class according to EN 1822		H14	U15	U16
Efficiency (MPPS) according to EN 1822	in %	> 99.995	> 99.9995	> 99.99995
Nominal upstream velocity	in m/s	0.45	0.45	0.45
Initial differential pressure at nominal volume flow rate: standard construction B	in Pa	110	130	-
Initial differential pressure at nominal volume flow rate: standard construction C	in Pa	95	115	140
Initial differential pressure at nominal volume flow rate: standard construction G	in Pa	85	100	120
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 18: Technical data for filter types F782, F783, and F784

Detail



Compact fine dust filters

» Application

Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust with large and/or variable volume flow rates and long filter life.

Compact filters for ventilation systems with extreme operating conditions.

Typical areas: Electronics and computer rooms, pharmaceutical production areas, research laboratories, hospitals, industrial ventilation, and as prefilters for particulate filters.

Supply air for gas turbines and centrifugal compressors.

» Filter types

- Type F736 (F6)
- Type F737 (F7)
- Type F739 (F9)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of MDF, galvanised sheet steel, or stainless sheet steel, with or without flange or protection grid according to construction.

» Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).

Technical data

For the technical data, see Leaflet F7/11/././...

Filter type		F736	F737	F739
Filter class according to EN 779		F6	F7	F9
Average efficiency according to EN 779	in %	65	85	95
Initial differential pressure at nominal volume flow rate	in Pa	130	150	170
Recommended final differential pressure	in Pa	450	450	450
Max. operating temperature	in °C	120	120	120
Max. relative humidity	in %	100	100	100

Table 19: Technical data for filter types F736, F737, and F739

Filter type		F736	F736-H	F739	F739-H
Filter class according to EN 779		F6	F6	F9	F9
Average efficiency according to EN 779	in %	65	65	95	95
Initial differential pressure at nominal volume flow rate	in Pa	130	190	180	240
Recommended final differential pressure	in Pa	650	650	650	650
Max. operating temperature	in °C	120	120	120	120
Max. relative humidity	in %	100	100	100	100

Table 20: Technical data for filter types F736 and F739 for gas turbines (H = with increased filter area)

HEPA filter cells

Detail



HEPA filter cells

» Application

HEPA filters: Main or final filters used for the most critical requirements of air purity and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering.

Separation of suspended particles or aerosols, toxic dusts, viruses, bacteria etc. from the supply or extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Type F770 (E11)
- Type F771 (H13)

» Material

Filter pack made of high-quality, moisture-resistant glass-fibre paper.

» Construction

Frame made of MDF, particle board, galvanised sheet steel, or stainless sheet steel.

» Associated TROX filter units

- Ducted HEPA filter units, available in various sizes as individual units or for use in filter unit systems (F3/3/././..).
- Duct casing, available in various casing widths and heights (F3/4/././..).

Technical data

For the technical data, see Leaflet F7/12/././...

Filter type		F770	F771
Filter class according to EN 1822		E11	H13
Efficiency (MPPS) according to EN 1822	in %	> 95	> 99.95
Initial differential pressure at nominal volume flow rate	in Pa	125	250
Recommended final differential pressure	in Pa	300	600
Max. operating temperature	in °C	100	100
Max. relative humidity	in %	100	100

Table 21: Technical data for filter types F770 and F771

Detail



Activated carbon filter cartridges

» Application

Adsorption of odorous and harmful substances in gaseous form from the recirculated air, as well as hydrocarbons and traces of inorganic compounds from supply or recirculated air.

» Material

Activated carbon in form of small sticks. Upon request, activated carbon filters can be provided with other carbon types: for special applications and operating conditions, e.g. for the adsorption of sulphur and chlorine compounds.

» Construction

Cylinder with profiled base and cover plate, equipped with a flat section seal.

» Associated TROX filter units

Mounting plate for activated carbon filter cartridges (F2/2/..../..)

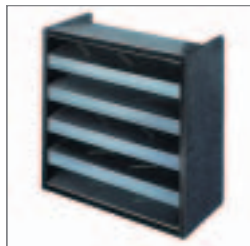
Technical data

Filter type		F760K0303	F760K0403	F760K0503
External diameter	in mm	145	145	145
Length	in mm	250	450	600
Nominal volume flow rate	in l/s	28	55	70
Nominal volume flow rate	in m ³ /h	100	200	250
Differential pressure at nominal volume flow rate	in Pa	100	175	250
Max. operating temperature	in °C	50	50	50
Max. relative humidity	in %	70	70	70
Weight	Approx. kg	1.6	2.6	3.4

Table 22: Technical data for activated carbon filter cartridges

Activated carbon filter cells

Detail



Activated carbon filter cell

» Application

Adsorption of odorous and harmful substances in gaseous form from the recirculated air, as well as hydrocarbons and traces of inorganic compounds from supply or recirculated air.

» Material

Activated carbon in form of small sticks. Upon request, activated carbon filters can be provided with other carbon types: for special applications and operating conditions, e.g. for the adsorption of sulphur and chlorine compounds.

» Construction

Frame made of moisture-resistant particle board, equipped with a flat section seal.

» Associated TROX filter units

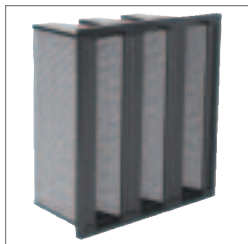
- Ducted HEPA filter units (F3/2/././..).
- Ducted HEPA filter units for highly sensitive areas (F3/3/././..).
- Duct casings for HEPA filter elements and activated carbon filter cells (F3/4/././..).

Technical data

Filter type		F760J03	F760J04
Dimensions (B x H x T)	in mm	610 x 610 x 292	305 x 610 x 292
Nominal volume flow rate	in l/s	560	280
Nominal volume flow rate	in m ³ /h	2000	1000
Differential pressure at nominal volume flow rate	in Pa	70	70
Max. operating temperature	in °C	50	50
Max. relative humidity	in %	70	70
Weight	Approx. kg	30	25

Table 24: Technical data for activated carbon filter cells

Detail



Activated carbon filter insert

» Application

Adsorption of odorous and harmful substances in gaseous form from the recirculated air, as well as hydrocarbons and traces of inorganic compounds from supply or recirculated air.

» Material

Granulated activated carbon.
Upon request, activated carbon filters can be provided with other carbon types: for special applications and operating conditions, e.g. for the adsorption of sulphur and chlorine compounds.

» Construction

Activated carbon filter insert: plastic frame.

» Equipment

The seal is a part of the standard cell frame for the activated carbon inserts; see F2/1/././...

» Associated TROX filter units

- Standard cell frames (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).

Technical data

Filter type		F760F17	F760F18	F760F19
Dimensions (B x H x T)	in mm	592 x 287 x 292	592 x 490 x 292	592 x 592 x 292
Nominal volume flow rate	in l/s	470	775	945
Nominal volume flow rate	in m ³ /h	1700	2800	3400
Differential pressure at nominal volume flow rate	in Pa	80	80	80
Max. operating temperature	in °C	30	30	30
Max. relative humidity	in %	60	60	60
Weight	Approx. kg	2.3	4.2	5.2

Table 25: Technical data for activated carbon filter inserts

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Filters

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