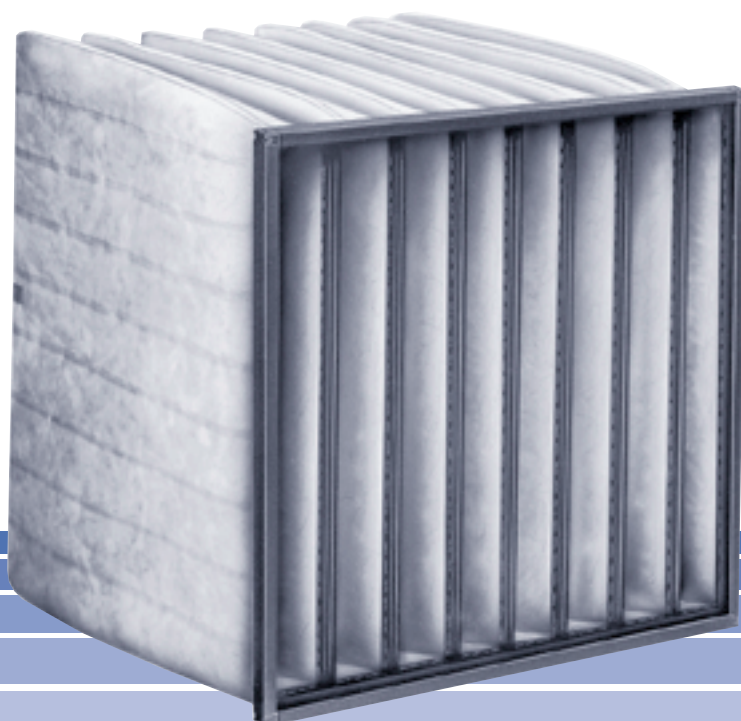


Bag Filter Inserts

F744/F746/F748/F749 in glass fibre fabrics



TROX[®] **TECHNIK**

Contents · Description · Installation

Description · Installation	2
Technical data on the filters F744/F746/F748/F749	3
Order information	5

Trox offers a comprehensive range of high-quality bag filter inserts to cover all ventilation and air-conditioning applications. The bag filters are manufactured on modern production facilities at our filter factory. Many years of experience in the production of bag filters, the use of suitable materials and good processing ensure high quality products.

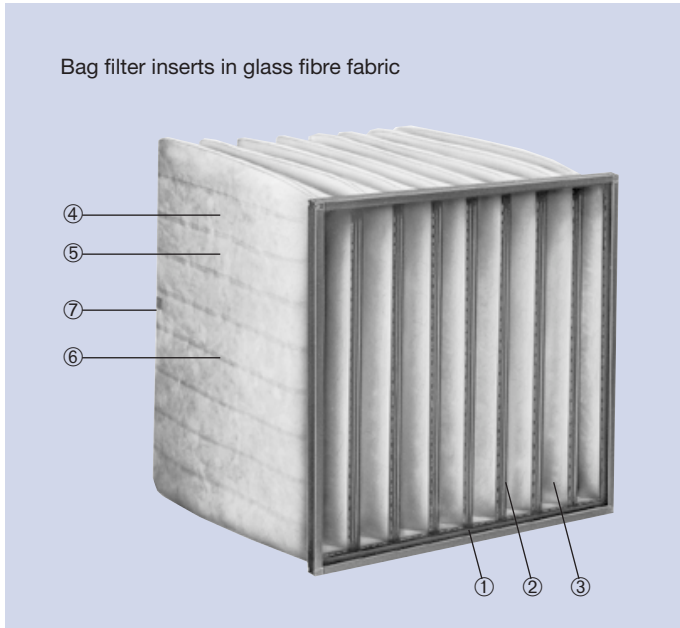
The bag filter inserts are employed as pre-filters or main filters in ventilation and air-conditioning systems to extract fine dust. They are available in various designs offering different extraction and efficiency levels and in different lengths to enable optimum adaption to the prevailing requirements. The filters consist of a plastic face frame (metal frame available upon request) and the individual filter bags made of glass fibre fabrics with spunbonded fabric lining.

For bag filter inserts in chemical fibre fabric and synthetic fibre fabric, see separate information leaflet F7/2.1/EN/.

The bag filter inserts offer decisive advantages for the economical operation of filter plants:

- Optimum bag shape and filter surface of the bag filter inserts for high dust retention capacity at low pressure differentials
- Reduction in plant resistance through use of bag filter inserts with low initial pressure differentials
- Reduced energy consumption
- Short fitting and changing times due to simple and safe handling of the bag filter inserts
- Problem-free disposal of the filters.

An expert body has confirmed that the bag filter inserts are suitable for disposal in modern incineration plants for domestic refuse.



- ① Robust polycarbonate face frame
- ② Stitched-in stabilising support struts
- ③ Face with maximum cross-sectional inflow area
- ④ Aerodynamically optimised, wedge-shaped bags
- ⑤ Robust fabric lining
- ⑥ Wedge seams sealed reliably with hot-melt adhesive
- ⑦ Distance strip for fixing the bag ends together



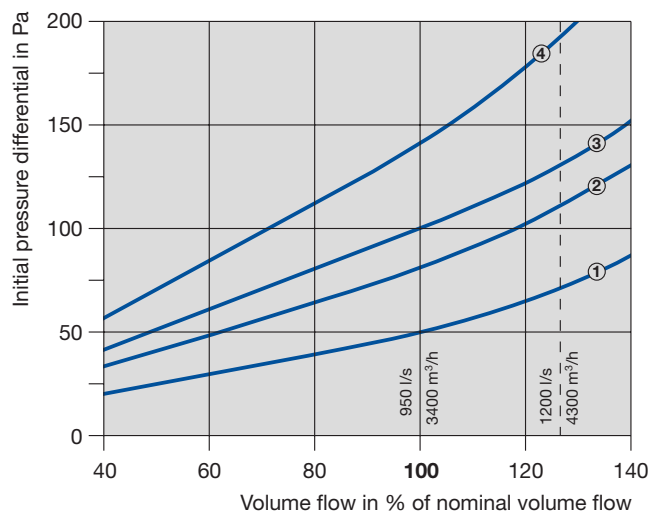
Bag filters for wall installation consist of standard cell frames and special fitting frames with strip steel struts (see information leaflet F2/2/EN/).

Duct bag filters consist of robust duct casings made of Sendzimir galvanised sheet steel, with side service door for changing the filter media (see information leaflet F3/3/EN/).

Technical Data on Filter F744/F746/F748/F749

The bag filters are tested in accordance with EN 779 by the Materials Testing Office for North Rhine-Westphalia, a neutral institution. The measurement results are recorded on a test certificate, an abridged version of which is published in a separate information leaflet.

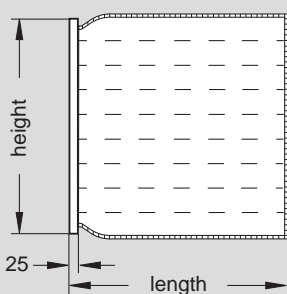
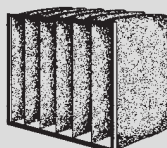
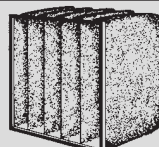
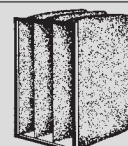


Trox bag filters also guarantee a high level of operational safety and reliability, even under extreme operating conditions.



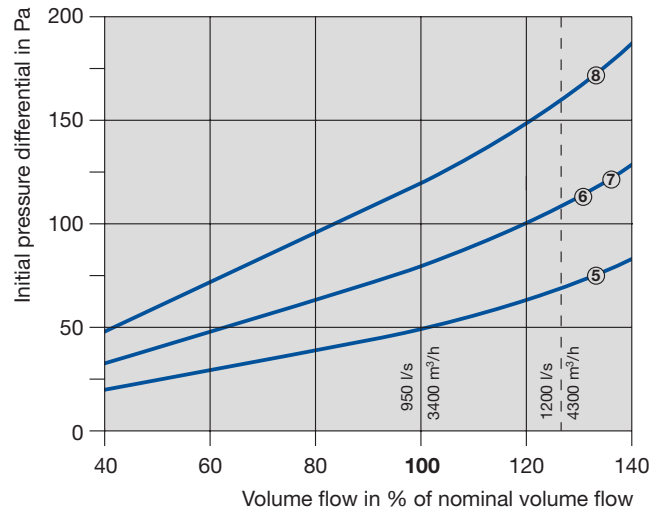
¹⁾ EN 779: Particulate air filters for general room air conditioning (see special information leaflet F0/2/EN/).

See table "Technical Filter Data" for classification of pressure differential curves.

Technical Filter Data (Bag filter length 600 mm)

	Bag filter type	F744	F746	F748	F749
	Bag filter length in mm	600	600	600	600
	Pressure differential curve	①	②	③	④
	Filter class in accord. with EN 779 ¹⁾	F 5	F 6	F 7	F 8
	Average extraction level for synthetic dust, approx. in %	98	>98	>98	>98
	Average efficiency for atmospheric dust in %	55	65	85	95
	Initial pressure differential at nominal volume flow in Pa	50 / 70	80 / 110	100 / 130	140 / 190
	Recomm. final pressure diff. in Pa	200–250	200–250	200–350	200–350
	Max. operating temperature in °C	up to +90	up to +90	up to +90	up to +90
Size: 592 x 592 mm 	Order number	F744 F66	F746 F66	F748 F66	F749 F66
	Number of bags in pieces	6	6	8	8
	Filter surface area in m ²	5.2	5.2	6.6	6.6
	Nominal volume flow in l/s in m ³ /h	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300
Size: 490 x 592 mm 	Order number	F744 F56	F746 F56	F748 F56	F749 F56
	Number of bags in pieces	5	5	7	7
	Filter surface area in m ²	4.4	4.4	5.7	5.7
	Nominal volume flow in l/s in m ³ /h	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600
Size: 287 x 592 mm 	Order number	F744 F36	F746 F36	F748 F36	F749 F36
	Number of bags in pieces	3	3	4	4
	Filter surface area in m ²	2.6	2.6	3.3	3.3
	Nominal volume flow in l/s in m ³ /h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 592 x 287 mm 	Order number	F744 Z36	F746 Z36	F748 Z36	F749 Z36
	Number of bags in pieces	6	6	8	8
	Filter surface area in m ²	2.8	2.8	3.5	3.5
	Nominal volume flow in l/s in m ³ /h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 287 x 287 mm 	Order number	F744 F26	F746 F26	F748 F26	F749 F26
	Number of bags in pieces	3	3	4	4
	Filter surface area in m ²	1.4	1.4	1.8	1.8
	Nominal volume flow in l/s in m ³ /h	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100

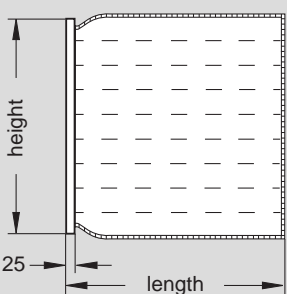
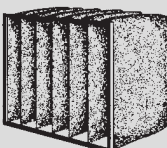
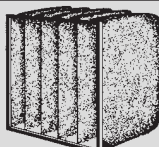
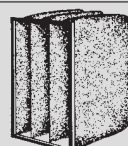
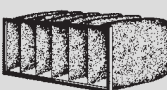

Technical Data on Filter F744/F746/F748/F749



EN 779: Particulate air filters for general room air conditioning (see special information leaflet F0/2/EN/.).

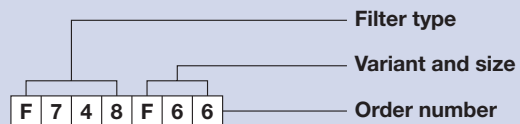
See table "Technical Filter Data" for classification of pressure differential curves.

Technical Filter Data (Bag filter length 700 mm)

	Bag filter type	F744	F746	F748	F749
	Bag filter length in mm	700	700	700	700
	Pressure differential curve	⑤	⑥	⑦	⑧
	Filter class in accord. with EN 779 ¹⁾	F 5	F 6	F 7	F 8
	Average extraction level for synthetic dust, approx. in %	98	>98	>98	>98
	Average efficiency for atmospheric dust in %	55	65	85	95
	Initial pressure differential at nominal volume flow in Pa	50 / 70	80 / 110	80 / 110	120 / 160
	Recomm. final pressure diff. in Pa	200–250	200–250	200–350	200–350
	Max. operating temperature in °C	up to +90	up to +90	up to +90	up to +90
Size: 592 x 592 mm 	Order number Number of bags in pieces Filter surface area in m ² Nominal volume flow in l/s in m ³ /h	F744 F67 8 7.6 950 / 1200 3400 / 4300	F746 F67 8 7.6 950 / 1200 3400 / 4300	F748 F67 10 9.4 950 / 1200 3400 / 4300	F749 F67 10 9.4 950 / 1200 3400 / 4300
Size: 490 x 592 mm 	Order number Number of bags in pieces Filter surface area in m ² Nominal volume flow in l/s in m ³ /h	F744 F57 7 6.6 780 / 1000 2800 / 3600	F746 F57 7 6.6 780 / 1000 2800 / 3600	F748 F57 8 7.5 780 / 1000 2800 / 3600	F749 F57 8 7.5 780 / 1000 2800 / 3600
Size: 287 x 592 mm 	Order number Number of bags in pieces Filter surface area in m ² Nominal volume flow in l/s in m ³ /h	F744 F37 4 3.8 475 / 600 1700 / 2200	F746 F37 4 3.8 475 / 600 1700 / 2200	F748 F37 5 4.7 475 / 600 1700 / 2200	F749 F37 5 4.7 475 / 600 1700 / 2200
Size: 592 x 287 mm 	Order number Number of bags in pieces Filter surface area in m ² Nominal volume flow in l/s in m ³ /h	F744 Z37 8 4.0 475 / 600 1700 / 2200	F746 Z37 8 4.0 475 / 600 1700 / 2200	F748 Z37 10 4.8 475 / 600 1700 / 2200	F749 Z37 10 4.8 475 / 600 1700 / 2200
Size: 287 x 287 mm 	Order number Number of bags in pieces Filter surface area in m ² Nominal volume flow in l/s in m ³ /h	F744 F27 4 2.0 230 / 310 850 / 1100	F746 F27 4 2.0 230 / 310 850 / 1100	F748 F27 5 2.4 230 / 310 850 / 1100	F749 F27 5 2.4 230 / 310 850 / 1100

Order Code for Bag Filter Inserts

- Bag filter insert in glass fibre fabric
- Filter class F7 in accordance with EN 779
- Face frame in plastic
- Dimensions 592 x 592 x 600



Specification Text

Item	Qty.	Description
		<p>Trox bag filter inserts consisting of:</p> <p>a plastic face frame or metal face frame, wedge-shaped filter bags in high-quality glass fibre fabric.</p> <p>Bag filter inserts with attested technical specifications, tested by the Materials Testing Office for North Rhine-Westphalia in accordance with EN 779.</p> <p>Available in face dimensions (w x h):</p> <p>592 mm x 592 mm for mounting frame 610 mm x 610 mm</p> <p>490 mm x 592 mm for mounting frame 508 mm x 610 mm</p> <p>287 mm x 592 mm for mounting frame 305 mm x 610 mm</p> <p>592 mm x 287 mm for mounting frame 610 mm x 305 mm</p> <p>287 mm x 287 mm for mounting frame 305 mm x 305 mm</p>
		<p>Technical data:</p> <p>Filter class in accordance with EN 779 _____</p> <p>Average extraction level for synthetic dust _____ %</p> <p>Average efficiency for atmospheric dust _____ %</p> <p>Dimensions, w x h x d _____ mm</p> <p>Nominal volume flow _____ l/s (m³/h)</p> <p>Initial pressure differential at nominal volume flow _____ Pa</p> <p>Max. operating temperature _____ °C</p> <p>Max. relative humidity _____ %</p> <p>Net weight _____ kg</p> <p>Order number _____</p> <p>Make: Trox</p>
		Price/unit