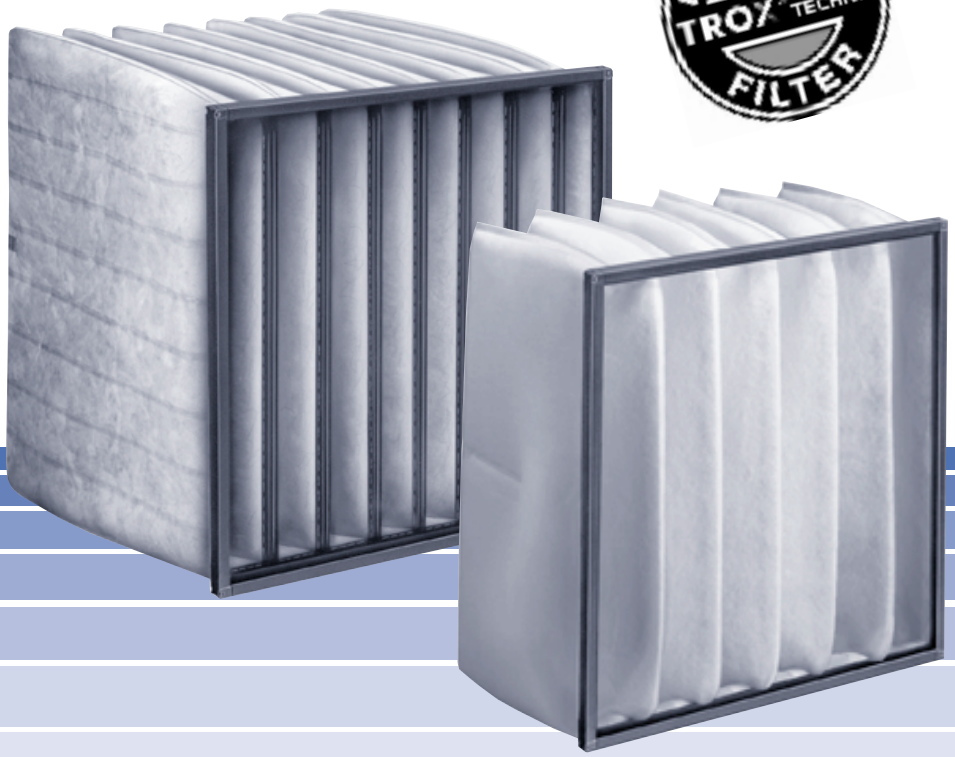
Bag Filter Inserts

F742/F743/F745 in chemical fibre fabrics
F726/F728/F729 in synthetic fibre fabrics



TROX® TECHNIK

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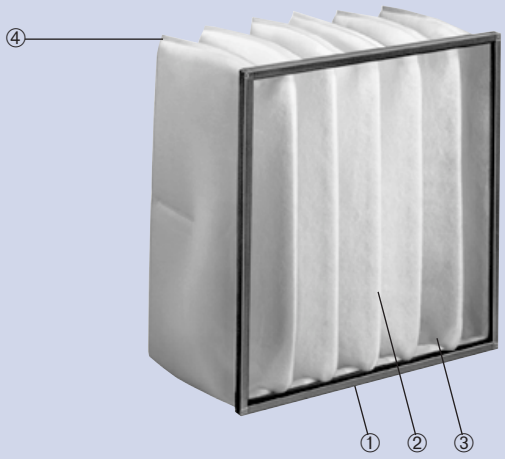
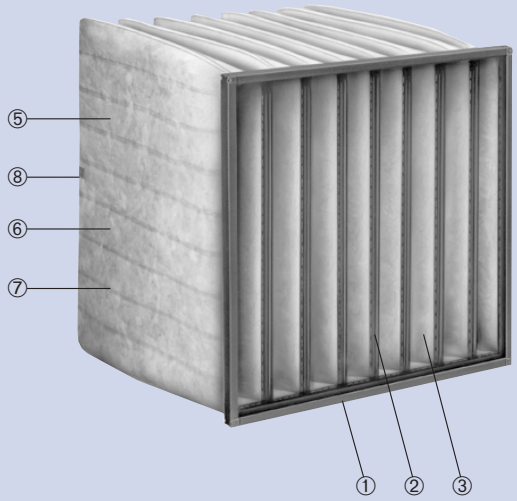
① Robust polycarbonate face frame
② Stabilising support struts
③ Face with maximum cross-sectional inflow area
④ Welded filter bags
⑤ Aerodynamically optimised, wedge-shaped bags
⑥ Robust fabric lining
⑦ Wedge seams sealed reliably with hot-melt adhesive
⑧ Distance strip for fixing the bag ends together

Bag filter inserts in chemical fibre fabric F742/F743



Bag filter inserts in synthetic fibre fabric F726/F728/F729



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 design and processing of the bag filters and the materials used 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.

Description and Installation

Depending on the filter type, the bag filter inserts are employed as pre-filters or main filters in ventilation and air-conditioning systems, to extract coarse and 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 chemical fibre fabrics or synthetic fibre fabrics with spunbonded fabric lining.
For bag filter inserts in glass fibre fabric, see separate information leaflet F7/2/D.

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.

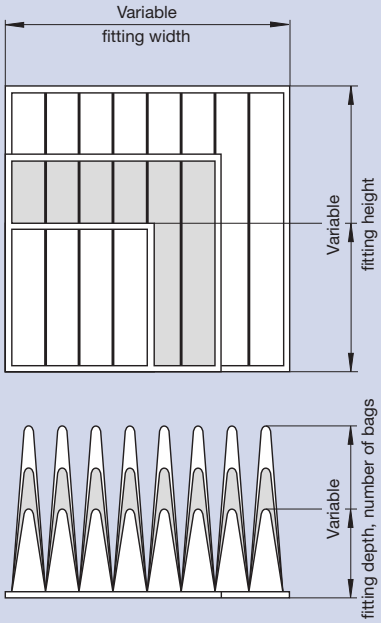
Bag filters for wall installation consist of standard cell frames and special fitting frames with strip steel struts (see information leaflet F2/2/EN/.).

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/.).

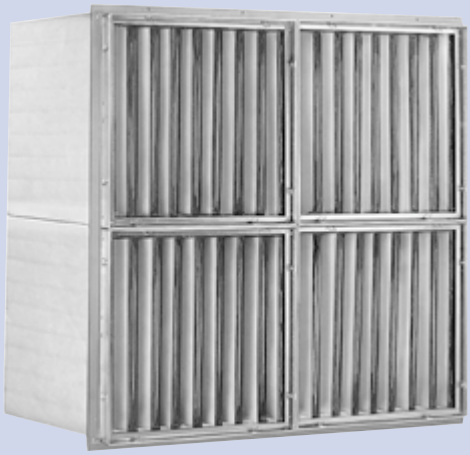
Variable bag filters

In addition to the standard dimensions for bag filter plants, the filter inserts are also available as variable bag filters with any required special dimensions.

Filter inserts for installation in box units are variable in two aspects:
– Fitting cross-section and fitting depth
– Filter surface area and number of filter bags

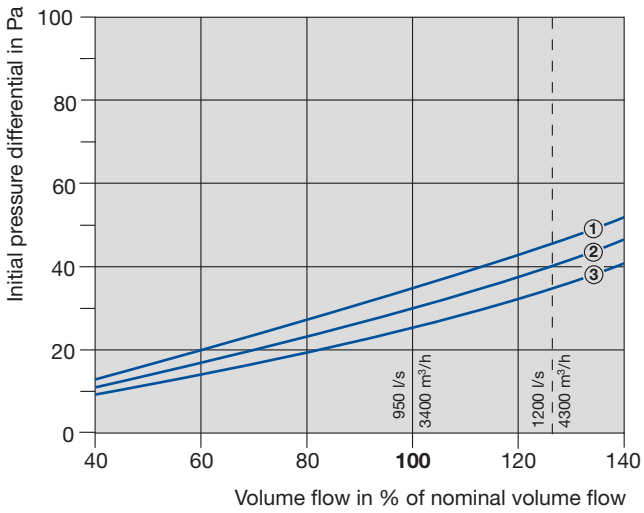


Bags filter for wall installation



Duct bag filter

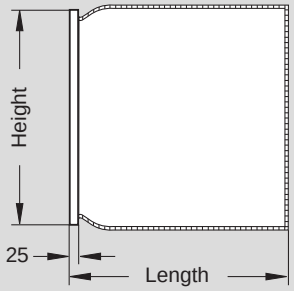
Technical Data on Filter F 742

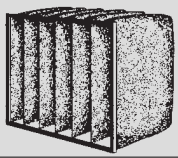
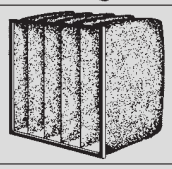
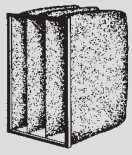
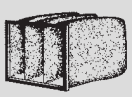


See table “Technical Filter Data” for classification of pressure differential curves.

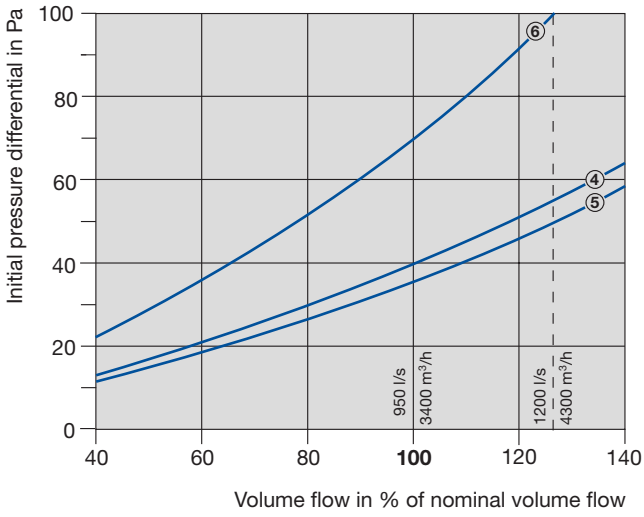
[1] EN 779: Particulate air filters for general room air conditioning (see special information leaflet F0/2/EN/.).

Technical Filter Data



Bag filter type		F 742		
Bag filter length	**in mm**	**200**	**360**	**360**
Pressure differential curve		①	②	③
Filter class in accord. with EN 779[1]		G 3	G 3	G 3
Average extraction level for synthetic dust, approx.	in %	82	82	82
Average efficiency for atmospheric dust	in %	–	–	–
Initial pressure differential at nominal volume flow	in Pa	35 / 45	30 / 40	25 / 35
Recomm. final pressure diff.	in Pa	200–250	200–250	200–250
Max. operating temperature	in °C	up to +90	up to +90	up to +90
Size: 592 x 592 mm				
Order number		**F742 F02**	**F742 F03**	**F742 F04**
Number of bags	in pieces	4	4	6
Filter surface area	in m²	1.2	2.0	2.8
Nominal volume flow	in l/s in m³/h	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300
Size: 490 x 592 mm				
Order number		**F742 F52**	**F742 F53**	**F742 F54**
Number of bags	in pieces	3	3	5
Filter surface area	in m²	0.9	1.5	2.3
Nominal volume flow	in l/s in m³/h	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600
Size: 287 x 592 mm				
Order number		**F742 F32**	**F742 F33**	**F742 F34**
Number of bags	in pieces	2	2	3
Filter surface area	in m²	0.6	1.0	1.4
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 592 x 287 mm				
Order number		**F742 Z32**	**F742 Z33**	**F742 Z34**
Number of bags	in pieces	4	4	6
Filter surface area	in m²	0.6	1.1	1.5
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 287 x 287 mm				
Order number		**F742 F22**	**F742 F23**	**F742 F24**
Number of bags	in pieces	2	2	3
Filter surface area	in m²	0.3	0.5	0.8
Nominal volume flow	in l/s in m³/h	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100

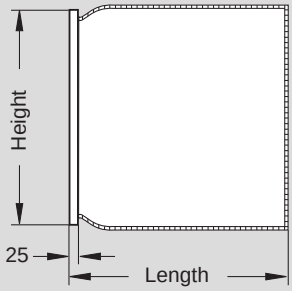
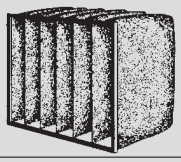
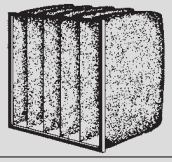
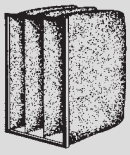
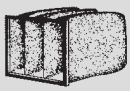
Technical Data on Filter F 743 / F 745



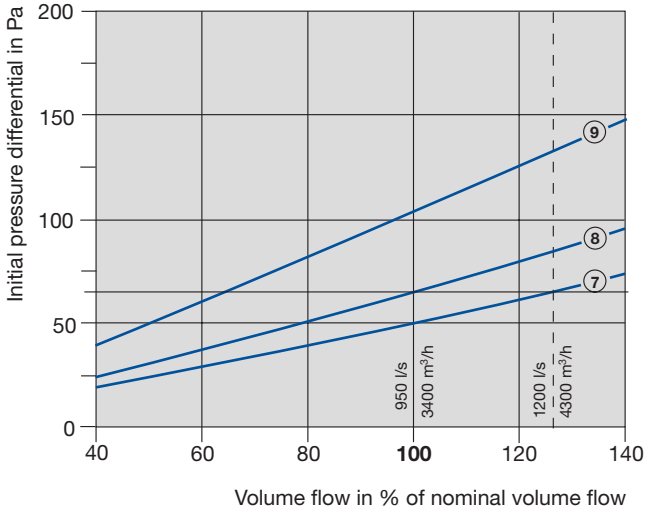
See table “Technical Filter Data” for classification of pressure differential curves.

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

Technical Filter Data

			F 743		F 745
	**Bag filter type**				
	Bag filter length	**in mm**	**360**	**360**	**650**
	Pressure differential curve		④	⑤	⑥
	Filter class in accord. with EN 779[1]		G 4	G 4	F 5
	Average extraction level for synthetic dust, approx.	in %	90	90	96
	Average efficiency for atmospheric dust	in %	–	–	47
	Initial pressure differential at nominal volume flow	in Pa	40 / 55	35 / 50	70 / 100
	Recomm. final pressure diff.	in Pa	200–250	200–250	200–250
	Max. operating temperature	in °C	up to +90	up to +90	up to +90
Size: 592 x 592 mm 	**Order number**		**F743 F03**	**F743 F04**	**F745 F06**
	Number of bags	in pieces	4	6	5
	Filter surface area	in m²	2.0	2.8	4.3
	Nominal volume flow	in l/s in m³/h	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300
Size: 490 x 592 mm 	**Order number**		**F743 F53**	**F743 F54**	**F745 F56**
	Number of bags	in pieces	3	5	4
	Filter surface area	in m²	1.5	2.3	3.4
	Nominal volume flow	in l/s in m³/h	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600
Size: 287 x 592 mm 	**Order number**		**F743 F33**	**F743 F34**	**F745 F36**
	Number of bags	in pieces	2	3	3
	Filter surface area	in m²	1.0	1.4	2.5
	Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 592 x 287 mm 	**Order number**		**F743 Z33**	**F743 Z34**	**F745 Z36**
	Number of bags	in pieces	4	6	5
	Filter surface area	in m²	1.1	1.5	2.3
	Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 287 x 287 mm 	**Order number**		**F743 F23**	**F743 F24**	**F745 F26**
	Number of bags	in pieces	2	3	3
	Filter surface area	in m²	0.5	0.8	1.3
	Nominal volume flow	in l/s in m³/h	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100

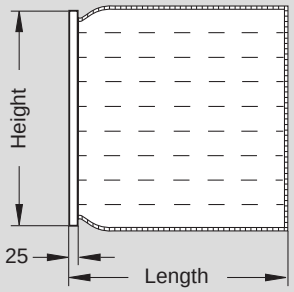
Technical Data on Filter F 726/F 728/F 729

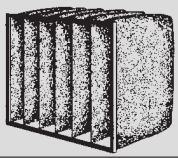
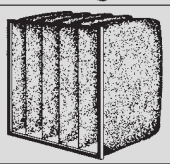
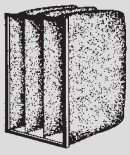
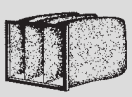


See table "Technical Filter Data" for classification of pressure differential curves.

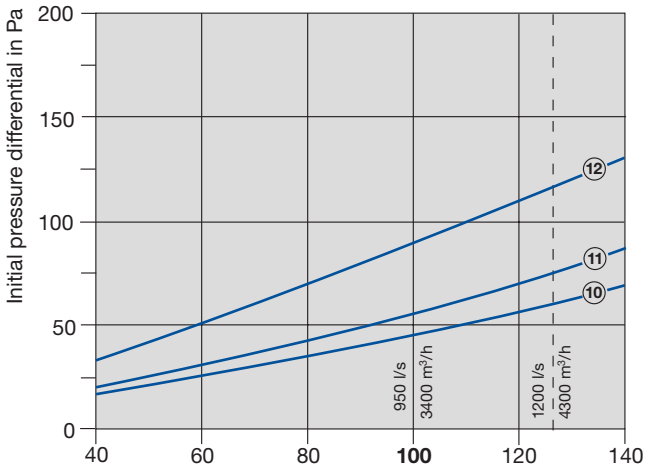
[1] EN 779: Particulate air filters for general room air conditioning (see special information leaflet F0/2/EN/.).

Technical Filter Data (Bag filters with standard filter surface area)



Bag filter type		F726	F728	F729
Bag filter length	**in mm**	**600**	**600**	**600**
Pressure differential curve		⑦	⑧	⑨
Filter class in accord. with EN 779[1]		F 6	F7	F8
Average extraction level for synthetic dust, approx.	in %	> 98	> 98	> 98
Average efficiency for atmospheric dust	in %	65	85	92
Initial pressure differential at nominal volume flow	in Pa	50 / 65	65 / 85	105 / 130
Recomm. final pressure diff.	in Pa	250–350	250–350	250–350
Max. operating temperature	in °C	up to +70	up to +70	up to +70
Size: 592 x 592 mm				
Order number		**F726 F65**	**F728 F65**	**F729 F65**
Number of bags	in pieces	6	6	6
Filter surface area	in m²	5.2	5.2	5.2
Nominal volume flow	in l/s in m³/h	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300
Size: 490 x 592 mm				
Order number		**F726 F55**	**F728 F55**	**F729 F55**
Number of bags	in pieces	5	5	5
Filter surface area	in m²	4.4	4.4	4.4
Nominal volume flow	in l/s in m³/h	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600
Size: 287 x 592 mm				
Order number		**F726 F35**	**F728 F35**	**F729 F35**
Number of bags	in pieces	3	3	3
Filter surface area	in m²	2.6	2.6	2.6
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 592 x 287 mm				
Order number		**F726 Z35**	**F728 Z35**	**F729 Z35**
Number of bags	in pieces	6	6	6
Filter surface area	in m²	2.8	2.8	2.8
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 287 x 287 mm				
Order number		**F726 F25**	**F728 F25**	**F729 F25**
Number of bags	in pieces	3	3	3
Filter surface area	in m²	1.4	1.4	1.4
Nominal volume flow	in l/s in m³/h	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100

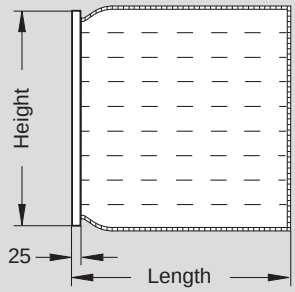
Technical Data on Filter F 726/F 728/F 729



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

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

Technical Filter Data (Bag filters with large filter surface area)

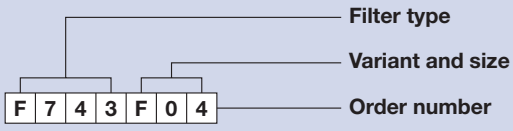


		F726	F728	F729
Bag filter type		**F726**	**F728**	**F729**
Bag filter length	**in mm**	**600**	**600**	**600**
Pressure differential curve		⑩	⑪	⑫
Filter class in accord. with EN 779[1]		F 6	F7	F8
Average extraction level for synthetic dust, approx.	in %	> 98	> 98	> 98
Average efficiency for atmospheric dust	in %	65	85	92
Initial pressure differential at nominal volume flow	in Pa	45 / 60	55 / 75	90 / 115
Recomm. final pressure diff.	in Pa	250–350	250–350	250–350
Max. operating temperature	in °C	up to +70	up to +70	up to +70
Size: 592 x 592 mm		**F726 F66**	**F728 F66**	**F729 F66**
Number of bags	in pieces	8	8	8
Filter surface area	in m²	6.6	6.6	6.6
Nominal volume flow	in l/s in m³/h	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300	950 / 1200 3400 / 4300
Size: 490 x 592 mm		**F726 F56**	**F728 F56**	**F729 F56**
Number of bags	in pieces	7	7	7
Filter surface area	in m²	5.7	5.7	5.7
Nominal volume flow	in l/s in m³/h	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600	780 / 1000 2800 / 3600
Size: 287 x 592 mm		**F726 F36**	**F728 F36**	**F729 F36**
Number of bags	in pieces	4	4	4
Filter surface area	in m²	3.3	3.3	3.3
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 592 x 287 mm		**F726 Z36**	**F728 Z36**	**F729 Z36**
Number of bags	in pieces	8	8	8
Filter surface area	in m²	3.5	3.5	3.5
Nominal volume flow	in l/s in m³/h	475 / 600 1700 / 2200	475 / 600 1700 / 2200	475 / 600 1700 / 2200
Size: 287 x 287 mm		**F726 F26**	**F728 F26**	**F729 F26**
Number of bags	in pieces	4	4	4
Filter surface area	in m²	1.8	1.8	1.8
Nominal volume flow	in l/s in m³/h	230 / 310 850 / 1100	230 / 310 850 / 1100	230 / 310 850 / 1100

Order Information

Order Code for Bag Filter Inserts

– Bag filter insert in chemical fibre fabric
– Filter class G3 in accordance with EN 779
– Face frame in plastic
– Dimensions 592 x 592 x 360 mm
– Number of bags: 6



Specification Text

Item	Qty.	Description
		Trox bag filter inserts consisting of: a plastic face frame or metal face frame, wedge-shaped filter bags in chemical fibre fabric or synthetic fibre fabric with spunbonded fabric lining. Bag filter inserts with attested technical specifications, tested by the Materials Testing Office for North Rhine-Westphalia in accordance with EN 779. Available in face dimensions (w x h): 592 mm x 592 mm for mounting frame 610 mm x 610 mm 490 mm x 592 mm for mounting frame 508 mm x 610 mm 287 mm x 592 mm for mounting frame 305 mm x 610 mm 592 mm x 287 mm for mounting frame 610 mm x 305 mm 287 mm x 287 mm for mounting frame 305 mm x 305 mm **Technical data:** Filter class in accordance with EN 779 _____ Average extraction level for synthetic dust _____ % Average efficiency for atmospheric dust _____ % Dimensions, w x h x d _____ mm Nominal volume flow _____ l/s (m^3/h) Initial pressure differential at nominal volume flow _____ Pa Max. operating temperature _____ °C Max. relative humidity _____ % Net weight _____ kg Order number _____ Make: Trox
		Price / unit