

Pocket filter inserts made of nonwoven glass fibres

Fine dust filters: F744, F746, F748, F749

Filter classes: F5, F6, F7, F9

- » Prefilters or final filters in ventilation systems for the separation of fine dust
- » Optimum dust holding capacity at a low differential pressure
- » Reduction of energy costs due to low initial differential pressure



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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. Available in various installation lengths.

» Associated TROX filter units

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

» Certification of EUROVENT

The pocket filter inserts of filter classes F5 to F9 are certified according to Eurovent. This certification can only be achieved by manufacturers whose filter product performance properties, filter classification and initial differential pressure have been tested by an independent institute. In this way, the quality of the fine dust filter is guaranteed.

» Testing fine dust filters

See Leaflet P/1/.../....



Technical data

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

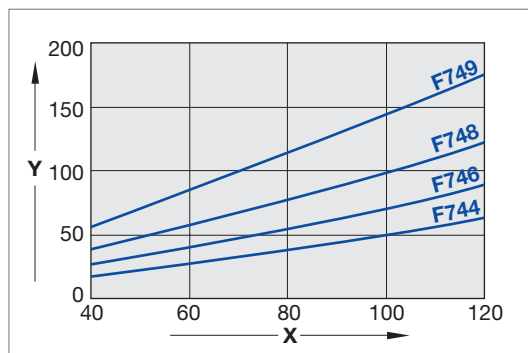


Diagram 1: Pocket filter inserts F744, F746, F748, F749, pocket depth 600 mm

X = Volume flow rate in % of nominal volume flow rate
Y = Initial differential pressure in Pa

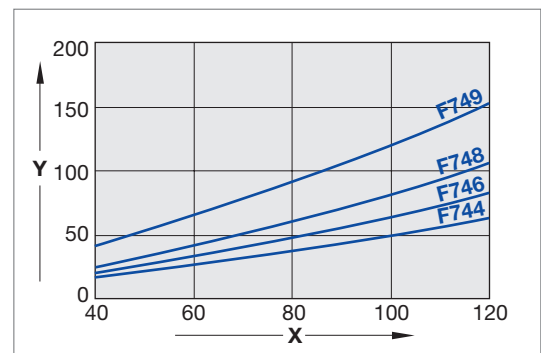
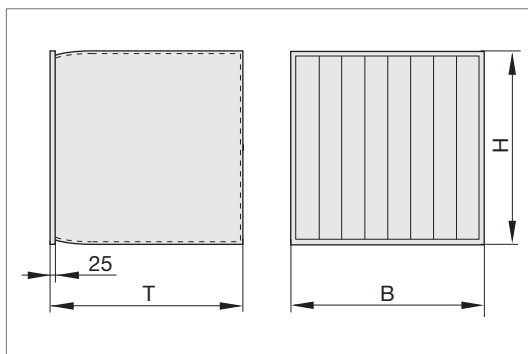


Diagram 2: Pocket filter inserts F744, F746, F748, F749, pocket depth 700 mm

X = Volume flow rate in % of nominal volume flow rate
Y = Initial differential pressure in Pa

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



Detail drawing 1: Pocket filter inserts F744

Dimensions of F744










Dimensions B x H mm	Filter type		F744	F744
	Pocket depth	mm	600	700
592 x 592 mm 	Order number		F744F66	F744F67
	Number of pockets	Item	6	8
	Filter area	m ²	5.2	7.6
	Nominal volume flow rate	l/s	950	950
	Nominal volume flow rate	m ³ /h	3400	3400
490 x 592 mm 	Order number		F744F56	F744F57
	Number of pockets	Item	5	7
	Filter area	m ²	4.4	6.6
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
287 x 592 mm 	Order number		F744F36	F744F37
	Number of pockets	Item	3	4
	Filter area	m ²	2.6	3.8
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
592 x 490 mm 	Order number		F744Z56	F744Z57
	Number of pockets	Item	6	8
	Filter area	m ²	4.4	6.6
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
592 x 287 mm 	Order number		F744Z36	F744Z37
	Number of pockets	Item	6	8
	Filter area	m ²	2.8	4.0
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
287 x 287 mm 	Order number		F744F26	F744F27
	Number of pockets	Item	3	4
	Filter area	m ²	1.4	2.0
	Nominal volume flow rate	l/s	230	230
	Nominal volume flow rate	m ³ /h	850	850
592 x 892 mm 	Order number		F744L66	F744L67
	Number of pockets	Item	6	8
	Filter area	m ²	7.2	10.8
	Nominal volume flow rate	l/s	1420	1420
	Nominal volume flow rate	m ³ /h	5100	5100
490 x 892 mm 	Order number		F744L56	F744L57
	Number of pockets	Item	5	7
	Filter area	m ²	6.0	9.0
	Nominal volume flow rate	l/s	1170	1170
	Nominal volume flow rate	m ³ /h	4200	4200
287 x 892 mm 	Order number		F744L36	F744L37
	Number of pockets	Item	3	4
	Filter area	m ²	3.6	5.4
	Nominal volume flow rate	l/s	710	710
	Nominal volume flow rate	m ³ /h	2550	2550

Table 2: Pocket filter inserts F744

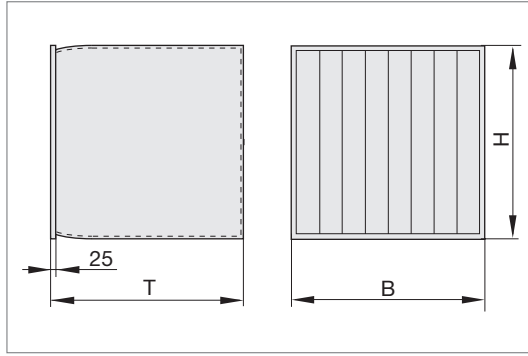
Pocket filter inserts F746

Technical data

Dimensional tolerance:

+ 0 mm

- 1 mm



Detail drawing 2: Pocket filter inserts F746

Dimensions of F746










Dimensions B x H mm	Filter type	mm	F746	F746
	Pocket depth		600	700
592 x 592 mm 	Order number		F746F66	F746F67
	Number of pockets	Item	6	8
	Filter area	m ²	5.2	7.6
	Nominal volume flow rate	l/s	950	950
	Nominal volume flow rate	m ³ /h	3400	3400
490 x 592 mm 	Order number		F746F56	F746F57
	Number of pockets	Item	5	7
	Filter area	m ²	4.4	6.6
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
287 x 592 mm 	Order number		F746F36	F746F37
	Number of pockets	Item	3	4
	Filter area	m ²	2.6	3.8
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
592 x 490 mm 	Order number		F746Z56	F746Z57
	Number of pockets	Item	6	8
	Filter area	m ²	4.4	6.6
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
592 x 287 mm 	Order number		F746Z36	F746Z37
	Number of pockets	Item	6	8
	Filter area	m ²	2.8	4.0
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
287 x 287 mm 	Order number		F746F26	F746F27
	Number of pockets	Item	3	4
	Filter area	m ²	1.4	2.0
	Nominal volume flow rate	l/s	230	230
	Nominal volume flow rate	m ³ /h	850	850
592 x 892 mm 	Order number		F746L66	F746L67
	Number of pockets	Item	6	8
	Filter area	m ²	7.2	10.8
	Nominal volume flow rate	l/s	1420	1420
	Nominal volume flow rate	m ³ /h	5100	5100
490 x 892 mm 	Order number		F746L56	F746L57
	Number of pockets	Item	5	7
	Filter area	m ²	6.0	9.0
	Nominal volume flow rate	l/s	1170	1170
	Nominal volume flow rate	m ³ /h	4200	4200
287 x 892 mm 	Order number		F746L36	F746L37
	Number of pockets	Item	3	4
	Filter area	m ²	3.6	5.4
	Nominal volume flow rate	l/s	710	710
	Nominal volume flow rate	m ³ /h	2550	2550

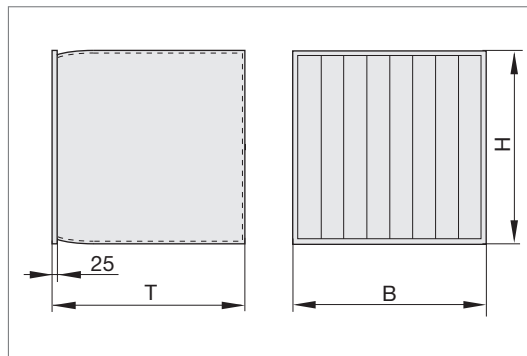
Table 3: Pocket filter inserts F746

Technical data

Dimensional tolerance:

+ 0 mm

- 1 mm



Detail drawing 3: Pocket filter inserts F748

Dimensions of F748










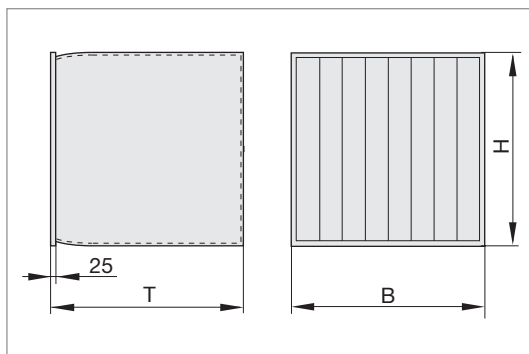
Dimensions B x H mm	Filter type		F748	
	Pocket depth	mm	600	700
592 x 592 mm 	Order number		F748F66	F748F67
	Number of pockets	Item	8	10
	Filter area	m ²	6.6	9.4
	Nominal volume flow rate	l/s	950	950
	Nominal volume flow rate	m ³ /h	3400	3400
490 x 592 mm 	Order number		F748F56	F748F57
	Number of pockets	Item	7	8
	Filter area	m ²	5.7	7.5
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
287 x 592 mm 	Order number		F748F36	F748F37
	Number of pockets	Item	4	5
	Filter area	m ²	3.3	4.7
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
592 x 490 mm 	Order number		F748Z56	F748Z57
	Number of pockets	Item	8	10
	Filter area	m ²	5.7	7.5
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
592 x 287 mm 	Order number		F748Z36	F748Z37
	Number of pockets	Item	8	10
	Filter area	m ²	3.5	4.8
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
287 x 287 mm 	Order number		F748F26	F748F27
	Number of pockets	Item	4	5
	Filter area	m ²	1.8	2.4
	Nominal volume flow rate	l/s	230	230
	Nominal volume flow rate	m ³ /h	850	850
592 x 892 mm 	Order number		F748L66	F748L67
	Number of pockets	Item	8	10
	Filter area	m ²	9.2	12.0
	Nominal volume flow rate	l/s	1420	1420
	Nominal volume flow rate	m ³ /h	5100	5100
490 x 892 mm 	Order number		F748L56	F748L57
	Number of pockets	Item	7	8
	Filter area	m ²	7.9	10.4
	Nominal volume flow rate	l/s	1170	1170
	Nominal volume flow rate	m ³ /h	4200	4200
287 x 892 mm 	Order number		F748L36	F748L37
	Number of pockets	Item	4	5
	Filter area	m ²	4.6	6.0
	Nominal volume flow rate	l/s	710	710
	Nominal volume flow rate	m ³ /h	2550	2550

Table 4: Pocket filter inserts F748

Pocket filter inserts F749

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



Detail drawing 4: Pocket filter inserts F749

Dimensions of F749










Dimensions B x H mm	Filter type	mm	F749	F749
	Pocket depth		600	700
592 x 592 mm 	Order number		F749F66	F749F67
	Number of pockets	Item	8	10
	Filter area	m ²	6.6	9.4
	Nominal volume flow rate	l/s	950	950
	Nominal volume flow rate	m ³ /h	3400	3400
490 x 592 mm 	Order number		F749F56	F749F57
	Number of pockets	Item	7	8
	Filter area	m ²	5.7	7.5
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
287 x 592 mm 	Order number		F749F36	F749F37
	Number of pockets	Item	4	5
	Filter area	m ²	3.3	4.7
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
592 x 490 mm 	Order number		F749Z56	F749Z57
	Number of pockets	Item	8	10
	Filter area	m ²	5.7	7.5
	Nominal volume flow rate	l/s	780	780
	Nominal volume flow rate	m ³ /h	2800	2800
592 x 287 mm 	Order number		F749Z36	F749Z37
	Number of pockets	Item	8	10
	Filter area	m ²	3.5	4.8
	Nominal volume flow rate	l/s	475	475
	Nominal volume flow rate	m ³ /h	1700	1700
287 x 287 mm 	Order number		F749F26	F749F27
	Number of pockets	Item	4	5
	Filter area	m ²	1.8	2.4
	Nominal volume flow rate	l/s	230	230
	Nominal volume flow rate	m ³ /h	850	850
592 x 892 mm 	Order number		F749L66	F749L67
	Number of pockets	Item	8	10
	Filter area	m ²	9.2	12.0
	Nominal volume flow rate	l/s	1420	1420
	Nominal volume flow rate	m ³ /h	5100	5100
490 x 892 mm 	Order number		F749L56	F749L57
	Number of pockets	Item	7	8
	Filter area	m ²	7.9	10.4
	Nominal volume flow rate	l/s	1170	1170
	Nominal volume flow rate	m ³ /h	4200	4200
287 x 892 mm 	Order number		F749L36	F749L37
	Number of pockets	Item	4	5
	Filter area	m ²	4.6	6.0
	Nominal volume flow rate	l/s	710	710
	Nominal volume flow rate	m ³ /h	2550	2550

Table 5: Pocket filter inserts F749

Specification text

TROX pocket filter inserts F744, F746, F748, and F749:

- » Front frame made of plastic or metal.
- » Wedge-shaped filter pockets made of nonwoven glass fibres.
- » Tested according to EN 779.
- » Packed in stable carton suitable for transport.

Technical data:

Filter class according to EN 779 _____
Average arrestance according to EN 779 _____ %
Average efficiency according to EN 779 _____ %
Dimensions (B x H x T) _____ mm
Nominal volume flow rate _____ l/s (m³/h)
Initial differential pressure _____ Pa
Max. operating temperature _____ °C
Max. relative humidity _____ %
Net weight _____ kg
Order number _____
Make: TROX

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Filters

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