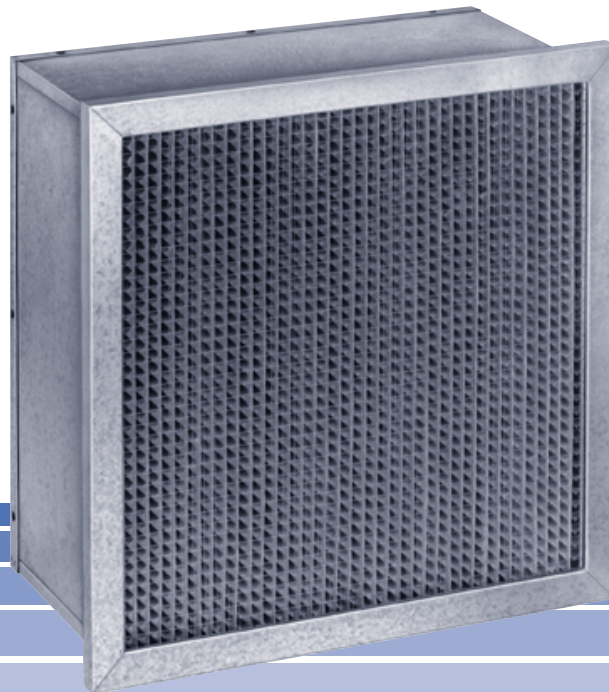


Compact Fine Dust Filter

for Gas Turbines

Filter inserts for extreme operating conditions

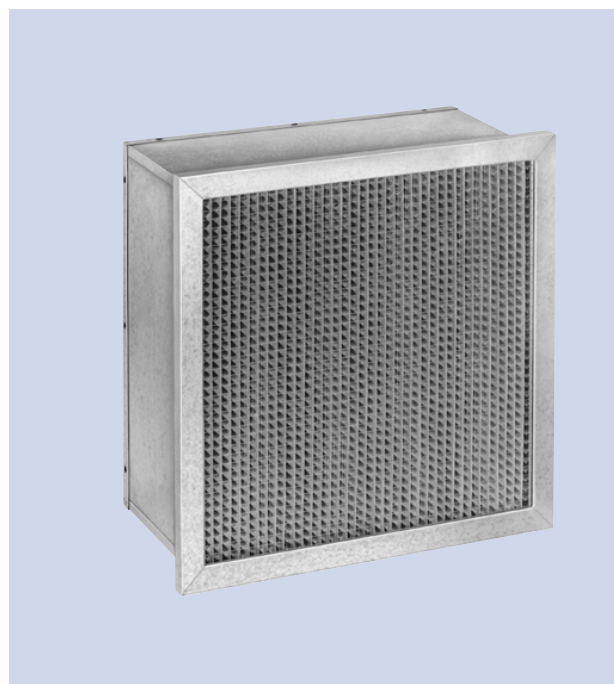


TROX[®] **TECHNIK**

Contents · Description

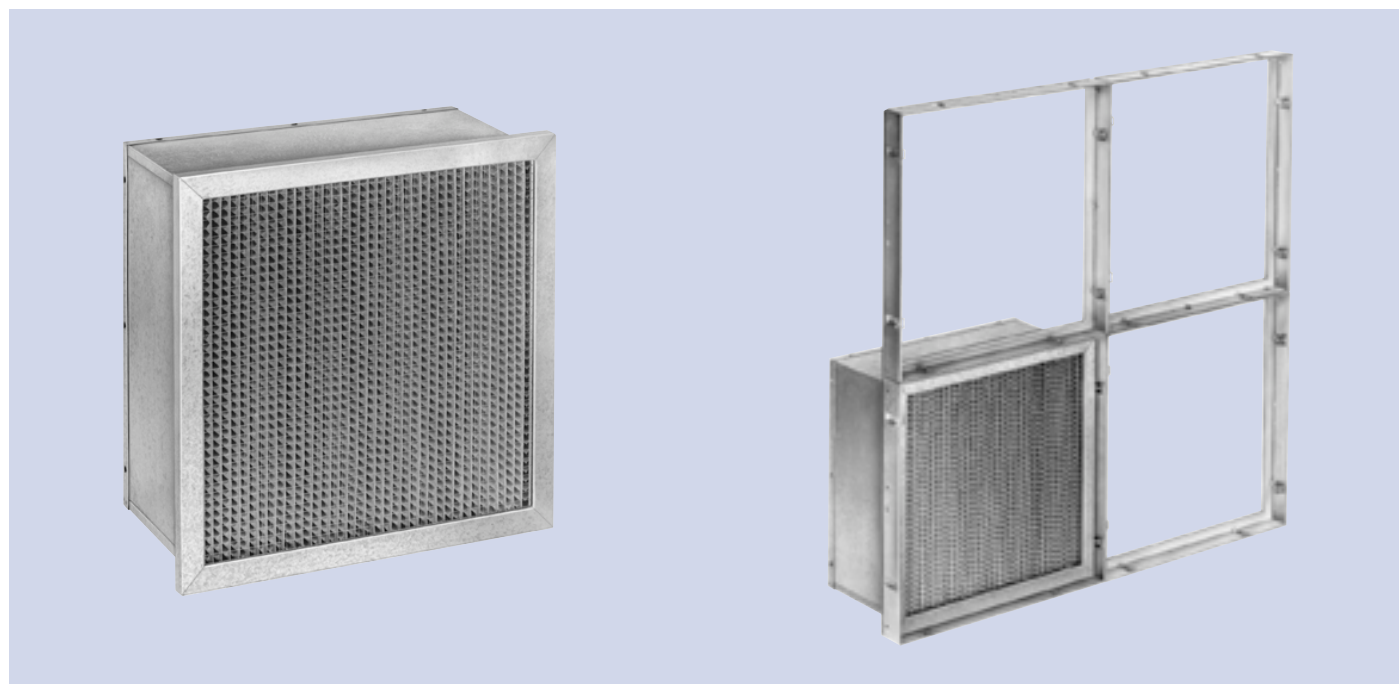
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Compact Fine Dust Filter



Compact Fine Dust Filters are heavy duty filters for use in ventilation systems with high efficiency requirements, even under extreme operating conditions such as those found in gas turbines, centrifugal compressors, and similar equipment. The filters are designed for high suction performance and are unaffected by intermittent volume flows and severe pressure fluctuations. They can be mounted in Trox's standard cell frames or used as spares in any standard mounting frame.

Standard Cell Frame with Compact Fine Dust Filter



Compact Fine Dust Filters come in various options:

- with 65% and 95% efficiency to EN 779¹⁾
- with two nominal volume flows of 940 l/s (3400 m³/h) or 1180 l/s (4250 m³/h) per filter insert measuring 592 x 595 x 292 mm
- with a single or double header flange.

The filters consist of a rigid framework structure in which the filter pack is inserted as an air-tight assembly. Protective grilles on both sides prevent the filter assembly from moving and protect the filter media from damage, even when the air flow is reversed.

¹⁾EN 779: "Particle air filters for general ventilation and air conditioning purposes".
(Equivalent to ASHRAE STANDARD 52-76)

Filter Media Data

Filter Media / Spacers

The optimum use of filter media is an essential prerequisite to achieving the required filtering properties, such as low pressure differentials, high levels of separation and efficiency, a large dust holding capacity and long filter life. For this reason, a double-layered, micro-glass fibre media with a variable density is used, the structure and composition of which meet the filtering requirements, even in high humidity.

The filter paper is laid in narrow parallel pleats and fixed evenly in place by spacers made from profiled aluminium foil. The special spacer profiling with beaded edges on both sides prevents the filter paper from being damaged and gives the filter assembly maximum stability.

Filter Casing

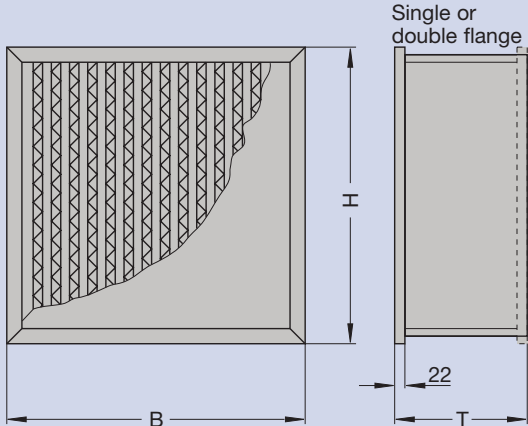
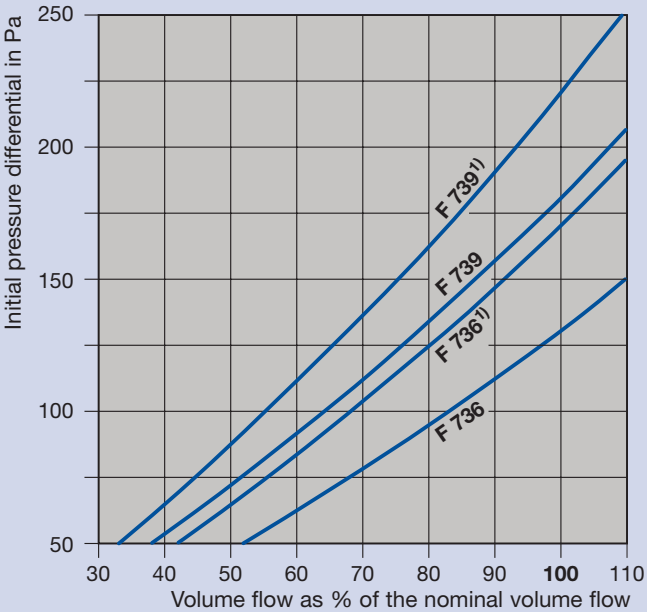
The filter casing is made from galvanised sheet steel and is fitted with a single or double header flange, depending on the design. The filter assembly is based on an exclusive mechanical locking system, eliminating the use of rivets, screws or bolts. The profiled frame sections are interlocked to produce a rigid filter frame.

Filter Media Data and Code Numbers

	Filter Type	F 736	F 739
Code Number	Filter class to EN 779 (ASHRAE STANDARD 52-76)	F6	F9
	Average atmospheric dust spot efficiency	in % 65	95
	Final recomm. pressure diff.	in Pa 650	650
	Code letter		
	Casing with flange on one side	G	
	Casing with flanges both sides	X	
	Max. operating temperature	in °C 120	
Max. relative humidity	in % 100		
52	Dimensions B x H x T	in mm 287x592x292	
	Nominal volume flow	in l/s 470	470
		in m ³ /h 1700	1700
	Initial pressure differential at nominal volume flow	in Pa 130	180
52 ¹⁾	Nominal volume flow	in l/s 580	580
		in m ³ /h 2100	2100
	Initial pressure differential at nominal volume flow	in Pa 170	220
	Weights	in kg 6.0	6.0
54	Dimensions B x H x T	in mm 592x592x292	
	Nominal volume flow	in l/s 940	940
		in m ³ /h 3400	3400
	Initial pressure differential at nominal volume flow	in Pa 130	180
54 ¹⁾	Nominal volume flow	in l/s 1180	1180
		in m ³ /h 4250	4250
	Initial pressure differential at nominal volume flow	in Pa 170	220
	Weights	in kg 10.0	10.0

¹⁾ Compact fine dust filter with larger filter area for higher nominal volume flow, code letter (individual order code).

All volume flow figures in l/s are rounded off, then converted to m³/h. Weights are given net excluding packing; weight per packing unit approx. 2 kg.



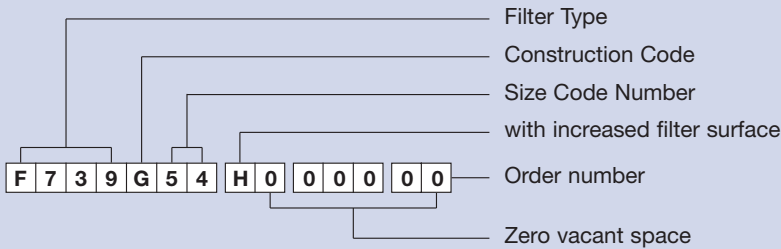
A deviation from the nominal volume flows does not have an adverse effect on the filtration performance of the Compact Fine Dust Filter; a lower nominal volume flow will increase service life.

Order Details

Order Code

Compact Fine Dust Filter

- with increased filter surface
- Filter class F9 to EN 779
- Filter casing with single flange
- Dimensions 592 x 592 x 292 mm
- Volume flow 1180 l/s (4250 m³/h)



Specification Text

Item	Qty.	Description
		<p>Trox Compact Fine Dust Filter</p> <p>consisting of: galvanised sheet steel with single or double flange and galvanised protective grilles on both sides.</p> <p>Filter media consisting of high-grade, double-layered, micro-glass fibre paper with profiled aluminium foil spacers.</p> <p>Compact Fine Dust Filter, tested to EN 779, are packed for transportation in strong, damage-resistant cartons.</p> <p>Technical Data:</p> <p>Dimensions B x H x T _____ mm</p> <p>Nominal volume flow _____ l/s (m³/h)</p> <p>Initial pressure differential _____ Pa</p> <p>Filter class to EN 779 _____</p> <p>Average efficiency _____ %</p> <p>Max. operating temperature _____ °C</p> <p>Max. relative humidity _____ %</p> <p>Net weight _____ kg</p> <p>Order number _____</p> <p>Manufacture: Trox</p>
		Unit price