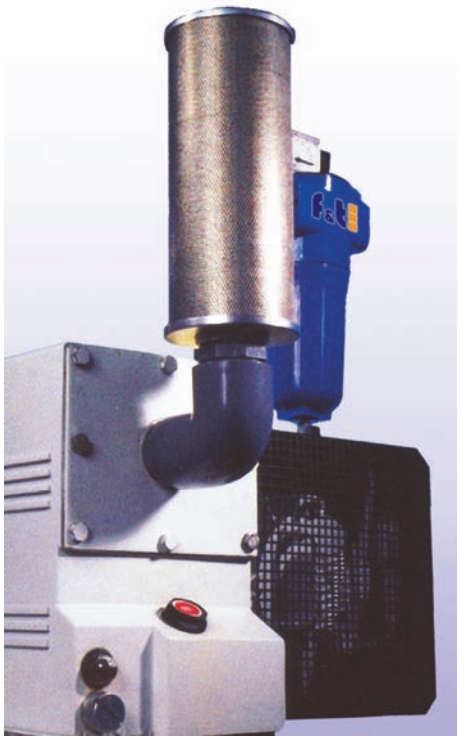
Vacuum Pump Exhaust Filters



FT offers three types of vacuum pump exhaust filters all of which are designed for oil mist removal from oil injected vacuum pumps. The simplex range FT-VFE filters with high performance coalescing filter elements are designed for oil mist removal from pumps which do not have internal oil separators. The duplex two stage filter model VFC is designed for total oil mist oil odour removal by using a high performance coalescer with second stage activated carbon filter. Both simplex and duplex filters are manufactured from diecast aluminium with a polyester powder coating. All are supplied with a drain valve plus a differential pressure gauge for the simplex range.

For rotary vane type vacuum pumps with internal oil separation, oily odours are often a problem especially in confined areas. The model FT-VFO filter is designed for this application. This filter element with internal threaded connection and high performance activated carbon filter media can be fitted directly to the pump outlet to provide a safe working environment.

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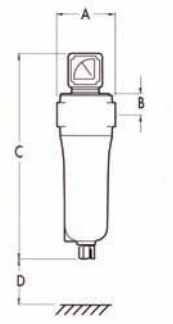
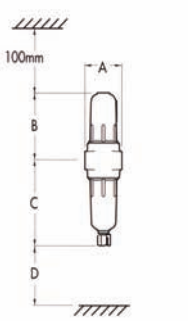
Vacuum Pump Exhaust Filters Series FT-VFE/VFC/VFO



Models
FT-16 VFE to FT-550 VFE

Filter Model	Pipe Size	Flow Rate Nm³/h	Flow Rate SCFM	Element Model	Number of Elements	Dimensions mm (A)	(B)	(C)	(D)	Weight kg
FT-16 VFE	1/2	16	10	E16 VFE	1	88	32	315	100	1,3
FT-25 VFE	3/4	25	15	E25 VFE	1	88	32	315	75	1,3
FT-45 VFE	1	45	25	E45 VFE	1	125	39	365	100	3,5
FT-65 VFE	1 1/4	65	40	E65 VFE	1	125	39	365	100	3,5
FT-125 VFE	1 1/2	125	75	E125 VFE	1	135	50	545	150	4,4
FT-165 VFE	2	165	100	E165 VFE	1	135	50	545	150	4,4
FT-250 VFE	2	250	150	E250 VFE	1	135	50	745	150	5,0
FT-350 VFE	2 1/2	350	200	E350 VFE	1	200	68	805	200	11,5
FT-450 VFE	3	450	265	E450 VFE	1	200	68	925	200	11,5
FT- 550VFE	3	550	325	E550 VFE	1	230	65	1050	300	19

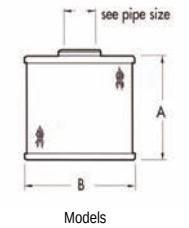


Model FT-16 VFC

FT- 16VFC	1/2	16	10	E16 VFC / EO2 VFAC	1/1	90	200	225	100	1,25

SPECIFICATION	GRADE VFE		GRADE VFC	
Particle removal	0,1 µm		0,1 µm	
Maximum oil carryover at 20°C (68°F)	1 mg/m³	1 ppm	0,1 mg/m³	0,1 ppm
Maximum temperature	120°C	248°F	120°C	248°F
Pressure loss – clean and dry	25 mbar	0,36 psi	30 mbar	0,44 psi
Pressure loss – oil saturated	70 mbar	1 psi	75 mbar	1,1 psi
Pressure loss – change element	150 mbar	2,2 psi	to suit application, at least every 6 month	
Maximum test pressure	4 bar abs.	60 psi abs.	4 bar abs.	60 psi abs.

1. Vacuum pump exhaust filters are manufactured from aluminium and carry the CE mark.
2. Threaded connections are BSP parallel to ISO /1 or NPT to ANSI B2.1 if supplied within North America.
3. Direction of air flow, inside to out, through filter element.
4. Model FT 16VFC, element VFC in the lower section is for oil removal while elements AC in the upper section are for odour removal.
5. Grade AC activated carbon filter elements must not operate in oil saturated conditions and will not remove certain types of gases including Carbon monoxide and carbon dioxide.
6. Differential pressure gauges are fitted to models FT-16 VFE to FT-550VFE.
7. Manual drain valves, model MDV25 are fitted to all models.
8. Drain flasks are available for liquid collection
9. Mounting brackets are available for all models.
10. All filter bodies are electrophoretically painted and then coated with blue polyester powder paint finish to eliminate corrosion.
11. Vacuum pump exhaust filters and filter elements are suitable for use with mineral and synttetic oils.
12. Flow rate refers to vacuum pump displacement.
13. Vacuum pump exhaust filters and filter elements are silicone free.



Models
FT-16 VFO to FT-250 VFO

Element Model	Pipe Size	Flow Rate Nm³/h	Flow Rate SCFM	Element Model	Dimensions mm (A)	(B)	Weight kg
FT-50 VFO	3/4	50	30	O50VFO	150	80	0,76
FT-75 VFO	1	75	45	O75VFO	150	100	0,88
FT-100 VFO	1 1/4	100	60	O100FVO	150	130	0,96
FT-150 VFO	1 1/2	150	90	O150FVO	250	130	1,1
FT-250 VFO	2	250	150	O250FVO	300	130	1,16

1. FT-VFO products must not operate in oil saturated conditions
2. 2. FT-VFO products must be changed at least every six month
3. 3. Maximum operating temperature 120°C (248°F)

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