

F101 Particulate & Coalescing Series Filters

ASME code filters built to last.

Van Air Systems F101 series coalescing and particulate filters remove solids, liquids, and oil aerosols from compressed air and gas systems. The F101 series include six filter housings available with flows from 500 to 5000 SCFM at 100 PSIG (6.9 BARG). F101 series filters offer 10 filtration grades that remove oil or solid particles. In the F101 design, high quality Van Air Systems elements ship with the filter housing. All housings are built and stamped in accordance with ASME code, Section VIII, Div. I, latest edition designed for 250 PSIG (17.2 BARG) at 225°F (107°C).

F101 series filters are ideal for:

- Pre-filtration compressed air dryers
- Particulate removal downstream of desiccant dryers
- Abrasive blasting, point of use
- Pulse air dust collectors

FEATURES

Maximum working pressure – 250 PSIG (17.2 BARG), 225°F (107°C)

ASME code stamp, section VIII

Welded carbon steel construction

(10) available element grades to suit every need

Large reservoirs facilitate draining



BENEFITS OF THE F101 SERIES FILTERS

Long lasting // Reduce maintenance

vanairsystems.com

SPECIFICATIONS

- Carbon steel housing
- Maximum working pressure: 250 PSIG (17.2 BARG)
- Port locations for installation of pressure differential gauge
- Housing interior – alkyd enamel
- Housing exterior – primer & enamel
- Color filter element
- Stainless steel internal tie rod & hex fastener
- O-ring element seal
- Inline connections

F101

- Inlet/outlet – NPT or ANSI RF Flange
- Filter element access – through flange at bottom of housing
- Manual drain valve included

OPTIONAL EQUIPMENT

- Pressure differential gauge
- Automatic drain

DIMENSIONS & SPECIFICATIONS

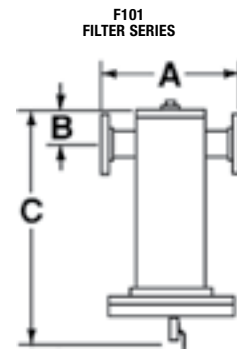
Model No.	A		B		C		In/Out Conn.	Drain Conn.	Replacement Element lbs	Weight kg	No. of Elements	
	in	cm	in	cm	in	cm						
F101-500-(*)	11 7/8	31	4 5/8	12	39	99	2" NPT	1/2" NPT	E101/102-500-(*)	100	45	1
F101-1000-(*)	15 1/2	40	5 1/4	14	41 1/8	105	3" NPT	1/2" NPT	E101/102-500-(*)	149	68	2
F101-1500-(*)	17 3/4	45	6 1/4	16	44 1/2	113	3" NPT	1/2" NPT	E101/102-500-(*)	240	109	3
F101-2000-(*)	18	46	6 3/8	17	50 7/8	130	4" FLG	1/2" NPT	E101/102-625-(*)	260	118	3
F101-3500-(*)	24	63	14	36	56	144	6" FLG	1/2" NPT	E101/102-625-(*)	390	177	5
F101-5000-(*)	28	72	15 1/2	40	61	157	6" FLG	1" NPT	E101/102-625-(*)	600	272	8

Note: Due to our policy of continuous improvement, dimensions and specifications may change without notice. Before pre-piping, request a certified drawing. Flanges are ANSI Class 150 R. F. All F101 filter bodies are built and stamped per ASME code. F101-3500 and 5000 models have elliptical top heads. (*) Filter Element Grade

FLOW CAPACITIES AT VARIOUS PRESSURES PSIG (BARG)

Model No.	50 (3.4)		100 (6.9)		150 (10.3)		200 (13.8)		250 (17.2)	
	SCFM	NM3/HR	SCFM	NM3/HR	SCFM	NM3/HR	SCFM	NM3/HR	SCFM	NM3/HR
F101-500-(*)	280	450	500	804	720	1158	935	1503	1155	1857
F101-1000-(*)	565	909	1000	1608	1435	2307	1870	3007	2310	3714
F101-1500-(*)	845	1359	1500	2412	2155	3465	2810	4518	3460	5564
F101-2000-(*)	1130	1817	2000	3216	2870	4615	3745	6022	4615	7421
F101-3500-(*)	1975	3176	3500	5628	5025	8080	6550	10532	8080	12993
F101-5000-(*)	2820	4535	5000	8040	7180	11545	9360	15051	11540	18556

(*) Filter Element Grade



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F101 & F102 Series Filters - PDF Downloads

Installation, Operation and Maintenance Manuals

F101



F102



Mounting Filters for
Regenerative Desiccant Dryers



PD-2 Pressure
Differential Gauge Kits



Sales Drawings

F101



F102



Filtration Grades

GRADE	MICRON RATING	OIL CARRYOVER PPM (W/W)	DESCRIPTION
AA	25	7.8	Extra coarse coalescing
A	5	3.9	Coarse coalescing
B	1	0.78	General purpose coalescing
C	0.01	0.008	High efficiency coalescing
RAA	25	N/A	Extra coarse particulate
RA	5	N/A	Coarse particulate
RB	1	N/A	General purpose particulate
RC	0.01	N/A	High efficiency particulate
RD	0.01	0.004	Oil vapor adsorbing
HT	1	-	High temperature particulate

Grade RD Elements must not operate in oil saturated conditions.
Replace periodically to suit application but change at least every 6 months.