

## medical vacuum filters



### 17 models specifically designed to eliminate solid, liquid & bacterial contamination from medical vacuum systems

The nano F<sup>1</sup> range of medical vacuum filters are manufactured from cast aluminum alloy providing enhanced strength and feature an E-Coat™ finish for optimum corrosion protection.

This range encompasses 17 filters with connections from 1/4" to 3" and rated flows from 2 to 156 scfm. The modular design allows close coupling of filters to simplify installation and maintenance.

### custom engineered media for optimum filtration performance

Elements are constructed with a high efficiency borosilicate microfiber media with an open cell reticulated foam pre filter. This unique design provides maximum filtration performance while minimizing pressure drop for optimum energy efficiency.

Drop fit element engages the bowl to prevent vibration, improving stability and drainage.



#### applications include:

dental

medical

veterinary

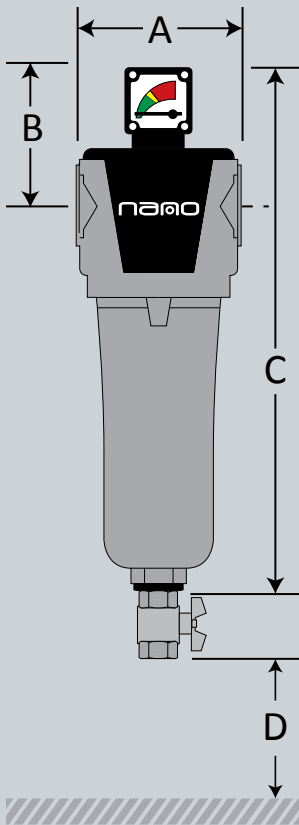
#### nano-purification solutions

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# technical specification

filter model	inlet & outlet <sup>(1)</sup>	exhaust flow rate <sup>(2)</sup> (vacuum displacement)		dimensions (inches)				approx. weight	replacement element
		scfm	Nm <sup>3</sup> /h	A	B	C	D	lbs	part no.
NMV 0025	¼"	2.1	3.5	2.75	0.98	7.52	3.35	1.3	E 0025 MV
NMV 0035	⅜"	2.9	5.0	2.75	0.98	7.52	3.74	1.3	E 0035 MV
NMV 0050	½"	4.1	7.0	2.75	0.98	9.13	5.31	1.5	E 0050 MV
NMV 0070	½"	7.1	12	3.94	1.38	10.9	6.10	3.5	E 0090 MV
NMV 0085	¾"	8.8	15	3.94	1.38	10.9	6.10	3.5	E 0090 MV
NMV 0125	¾"	14.7	25	3.94	1.38	15.6	8.86	4.4	E 0135 MV
NMV 0135	1"	19.4	33	3.94	1.38	15.6	8.86	4.4	E 0135 MV
NMV 0175	1"	26.5	45	3.94	1.38	15.6	10.8	4.4	E 0175 MV
NMV 0280	1 ¼"	35.3	60	4.80	1.65	18.1	12.6	6.2	E 0325 MV
NMV 0325	1 ½"	41.2	70	4.80	1.65	18.1	12.6	6.2	E 0325 MV
NMV 0400	1 ½"	55.9	95	5.75	2.05	19.0	12.8	9.2	E 0450 MV
NMV 0450	2"	70.6	120	5.75	2.05	19.0	12.8	9.2	E 0450 MV
NMV 0700	2"	103	175	5.75	2.05	30.9	24.8	13.9	E 0700 MV
NMV 0850	2 ½"	112	190	8.27	2.60	23.4	16.1	18.7	E 1000 MV
NMV 1000	3"	118	200	8.27	2.60	23.4	16.1	18.7	E 1000 MV
NMV 1250	3"	132	225	8.27	2.60	32.1	24.8	23.1	E 1250 MV
NMV 1500	3"	156	265	8.27	2.60	38.4	30.9	26.4	E 1500 MV



specifications	NMV 0025 to 0050	NMV 0070 to 0085	NMV 0125 to 1500
vacuum indicator / gauge	NDV 50	NDV 1500	NDV 1500
condensate drain (included) <sup>(3)</sup>	MLF 100	MLF 100	MLF 250
design operating pressure range	full vacuum to 7 psig		
filter housing material	cast aluminum with E-Coat™ & powder top coat finish		

element performance	MV
DOP particle removal efficiency <sup>(4)</sup>	> 99.995%
pressure drop - clean	0.44 psid
pressure drop - recommended replacement	1.5 psid
design operating temperature range	35 to 140°F
flow direction through element	outside to inside
maximum element life	6 months or 1000 hours

vacuum correction factors											
operating vacuum	psia	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9	
	in Hg	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9	
	mbar abs	atm	900	800	700	600	500	400	300	200	
	Torr	760	675	600	525	450	375	300	225	150	
correction factor		1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.50	0.43	

(1) inlet and outlet connections are NPT threaded to ANSI B2.1

(2) free air conditions when operating at atmospheric pressure. For vacuums refer to the vacuum correction factor table above

(3) includes manual valve and sterilizable glass drain flask

(4) as specified in HTM 02-01 medical gas pipeline systems