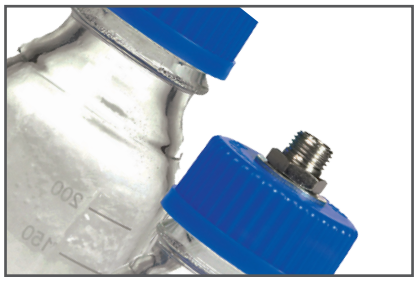
medical vacuum filters

FEATURES

- designed to eliminate solid, liquid and bacterial contamination from medical vacuum systems
- meets ISO 7396-1, HTM 02-01 and 2018 revision of NFPA 99 (5.1.3.7.4)
- 17 models with connections from ¼" to 3" NPT and rated flows from 2 to 156 scfm
- modular design allows close coupling of filters to simplify installation and maintenance
- housing manufactured from cast aluminum alloy providing enhanced strength and feature an E-Coat™ finish for optimum corrosion protection
- 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 and veterinary

complete package

manual valve and sterilizable glass drain flask are included as standard



unique element design

constructed with an oleophobic borosilicate microfiber media with an open cell reticulated foam prefilter

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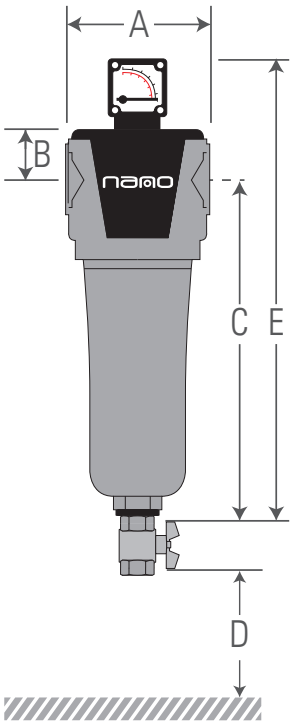
SPECIFICATIONS

filter model	inlet & outlet [1]	exhaust flow rate (vacuum displacement) [2]		dimensions (inches)					approx. weight	replacement element kit
	NPT	scfm	Nm^3/h	A	B	C	D	E	lbs	
NMV 0025	¼″	2.1	3.5	2.76	0.98	6.65	3.00	9.29	1.3	E 0025 MV
NMV 0035	⅜″	2.9	5.0	2.76	0.98	6.65	3.00	9.29	1.3	E 0035 MV
NMV 0050	½″	4.1	7.0	2.76	0.98	8.31	3.00	10.93	1.5	E 0050 MV
NMV 0070	½″	7.1	12	3.94	1.34	9.69	3.00	13.82	3.5	E 0090 MV
NMV 0085	¾″	8.8	15	3.94	1.34	9.69	3.00	13.82	3.5	E 0090 MV
NMV 0125	¾″	14.7	25	3.94	1.34	14.41	3.00	18.55	4.4	E 0135 MV
NMV 0135	1″	19.4	33	3.94	1.34	14.41	3.00	18.55	4.4	E 0135 MV
NMV 0175	1″	26.5	45	3.94	1.34	14.41	3.00	18.55	4.4	E 0175 MV
NMV 0280	1 ¼″	35.3	60	4.80	1.65	16.50	3.00	20.97	6.2	E 0325 MV
NMV 0325	1 ½″	41.2	70	4.80	1.65	16.50	3.00	20.97	6.2	E 0325 MV
NMV 0400	1 ½″	55.9	95	5.75	2.05	17.01	3.00	21.85	9.2	E 0450 MV
NMV 0450	2″	70.6	120	5.75	2.05	17.01	3.00	21.85	9.2	E 0450 MV
NMV 0700	2″	103	175	5.75	2.05	29.06	3.00	33.91	13.9	E 0700 MV
NMV 0850	2 ½″	112	190	8.27	2.64	20.94	3.00	26.38	18.7	E 1000 MV
NMV 1000	3″	118	200	8.27	2.64	20.94	3.00	26.38	18.7	E 1000 MV
NMV 1250	3″	132	225	8.27	2.64	29.53	3.00	34.96	23.1	E 1250 MV
NMV 1500	3″	156	265	8.27	2.64	35.75	3.00	41.18	26.4	E 1500 MV

specifications	NMV 0025 TO 0050	NMV 0070 TO 1500
vacuum indicator/gauge	NDV 50	NDV 1500
condensate drain (included) [3]	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 [4]	> 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
operating vacuum (inch Hg)	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9
operating vacuum (mbar abs)	atm	900	800	700	600	500	400	300	200
operating vacuum (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
(5) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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