

vacuum pump protection filters

FEATURES

- designed to protect vacuum pumps from both solid and liquid contamination
- 16 models with connections from 3/8" to 3" NPT and rated flows from 4 to 288 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
- minimizes pressure drop for optimum energy efficiency
- applications include chemical, dental, food & beverage, laboratories, manufacturing, medical, packaging, paint applications, pharmaceutical pneumatic conveying and printing and paper



proprietary media technology

oleophobic borosilicate glass microfiber media provides exceptional dirt holding and drainage capabilities with a low dP



accessories

manual valve as standard and drain flask available as option



nano-purification solutions charlotte, north carolina united states

nano-purification solutions new bethlehem, pennsylvania united states

nano-purification solutions st. catharines, ontario canada

nano-purification solutions gateshead, tyne and wear united kingdom

nano-purification solutions krefeld, germany

tel: 704.897.2182 fax: 704.897.2183 email: support@n-psi.com web: www.n-psi.com



SPECIFICATIONS

filter model	inlet & outlet ⁽¹⁾	exhaust (vacuum dis _l	dimensions (inches)					approx. weight	replacement element	
	NPT/Flg	scfm	Nm³/h	А	В	С	D	Е	lbs	_ Glorilone
NPP 0035 (grade)	3/8"	4.1	7	2.76	0.98	6.65	3.00	9.29	1.3	E 0035 (grade)
NPP 0050 (grade)	1/2"	6.5	11	2.76	0.98	8.31	3.00	10.93	1.5	E 0050 (grade)
NPP 0070 (grade)	1/2"	11.8	20	3.94	1.34	9.69	3.00	13.82	3.5	E 0090 (grade)
NPP 0085 (grade)	3/4″	14.7	25	3.94	1.34	9.69	3.00	13.82	3.5	E 0090 (grade)
NPP 0125 (grade)	3/4"	20.6	35	3.94	1.34	14.41	3.00	18.55	4.4	E 0135 (grade)
NPP 0135 (grade)	1"	23.5	40	3.94	1.34	14.41	3.00	18.55	4.4	E 0135 (grade)
NPP 0175 (grade)	1"	29.4	50	3.94	1.34	14.41	3.00	18.55	4.4	E 0175 (grade)
NPP 0280 (grade)	1 1/4"	44.1	75	4.80	1.65	16.50	3.00	20.97	6.2	E 0325 (grade)
NPP 0325 (grade)	1 ½"	50	85	4.80	1.65	16.50	3.00	20.97	6.2	E 0325 (grade)
NPP 0400 (grade)	1 ½"	59	100	5.75	2.05	17.01	3.00	21.85	9.2	E 0450 (grade)
NPP 0450 (grade)	2"	67.5	115	5.75	2.05	17.01	3.00	21.85	9.2	E 0450 (grade)
NPP 0700 (grade)	2"	106	180	5.75	2.05	29.06	3.00	33.91	13.9	E 0700 (grade)
NPP 0850 (grade)	2 ½"	118	200	8.27	2.64	20.94	3.00	26.38	18.7	E 1000 (grade)
NPP 1000 (grade)	3"	138	235	8.27	2.64	20.94	3.00	26.38	18.7	E 1000 (grade)
NPP 1250 (grade)	3"	212	360	8.27	2.64	29.53	3.00	34.96	23.1	E 1250 (grade)
NPP 1500 (grade)	3"	288	490	8.27	2.64	35.75	3.00	41.18	26.4	E 1500 (grade)

specifications	NPP 0035 to 0050	NPP 0070 to 1500			
vacuum indicator/gauge	NDV 50	NDV 1500			
design operating pressure range	full vacuum	to 232 psig			
condensate drain (included) (3)	manual	valve			
filter housing material	cast aluminum with E-Coat™ & powder top coat finish				

ement performance	PP5	PP1
article removal	5 micron	1 micron
aximum oil carryover at 68°F (ppm or mg/m³)	1 mg/m³	1 mg/m³
ressure drop - clean	0.3 psid	0.6 psid
ressure drop - recommended replacement	1.5 psid	1.5 psid
commended operating temperature range	35 to	212°F
esign operating temperature range	35 to	248°F
ow direction through element	outside	to inside
aximum element life	12 months o	or 8000 hours
ow direction through element	outside	to inside

	pressure correction factors									
	operating pressure (psia)	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9
	operating pressure (inch Hg)	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9
ĺ	operating pressure (mbar abs)	atm	900	800	700	600	500	400	300	200
	operating pressure (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) models NPP 0070 to NPP 1500 can be adapted to use 1/4" drains with a reducer. Drain flasks are available for liquid collection for vacuum (or atmospheric pressure) applications only
- 4) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182



