

## water separators



### eliminate corrosion, damage to tools and machinery downtime with efficient bulk water removal

The nano F<sup>1</sup> range of water separators eliminate 99% of liquids in your compressed air or gas system improving your processes and reducing costly downtime.

The unique fins on the internal centrifugal module have been engineered using the latest computational fluid dynamic software to optimize liquid removal efficiency across a wide range of operating conditions. The nano F<sup>1</sup> water separators are perfectly suited for variable speed compressors.

An internal shield ensures that the separated liquids cannot re-enter the air or gas stream greatly improving drainage and further improving separation performance.

### exceptional performance

With a housing manufactured from die cast aluminum and polyester powder coated for optimum corrosion protection, the nano F<sup>1</sup> water separators are designed to provide a long life of reliable separation in even the most demanding applications.

Manufactured in an ISO 9001 approved facility and tested in accordance with ISO 12500-4.



#### applications include:

electronics

instrumentation

laboratories

automotive

robotics

oil & gas

paint applications

pneumatic conveying

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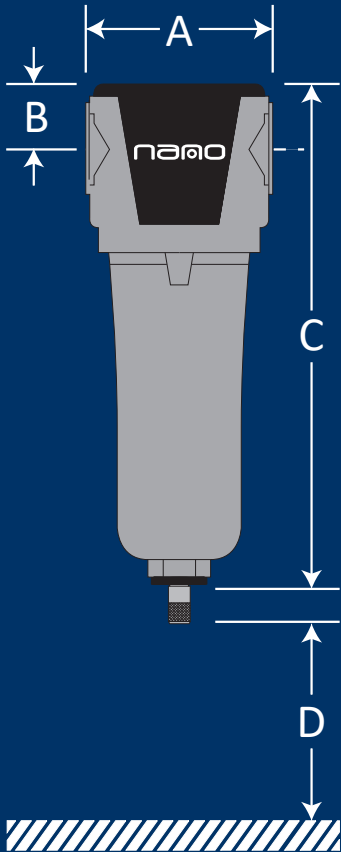
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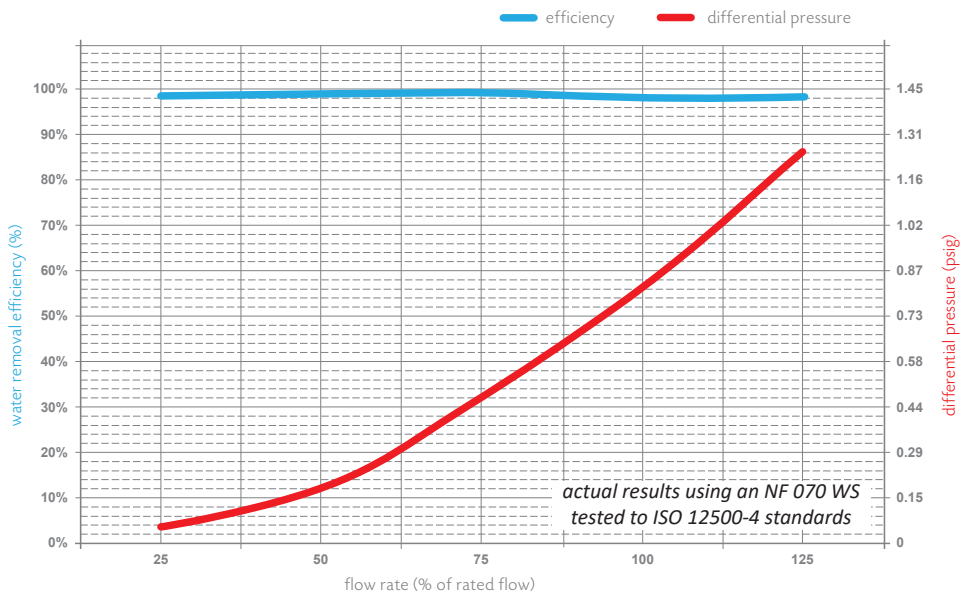
# technical specification

separator model	inlet & outlet		rated flow <sup>(1)</sup>		dimensions (inches)				approx. weight
	NPT		scfm	Nm <sup>3</sup> /h	A	B	C	D	lbs
NF 0025 WS	¼"		25	42	2.76	0.98	7.50	3.00	1.3
NF 0035 WS	⅜"		35	59	2.76	0.98	7.50	3.00	1.3
NF 0050 WS	½"		50	85	2.76	0.98	7.50	3.00	1.3
NF 0070 SWS <sup>(2)</sup>	½"		70	119	3.94	1.34	8.19	3.00	3.1
NF 0070 WS	½"		70	119	3.94	1.34	10.83	3.00	3.3
NF 0125 WS	¾"		125	212	3.94	1.34	10.83	3.00	3.3
NF 0175 WS	1"		175	297	3.94	1.34	10.83	3.00	3.3
NF 0280 SWS <sup>(2)</sup>	1 ¼"		280	476	4.80	1.65	14.94	3.00	5.1
NF 0280 WS	1 ¼"		280	476	4.80	1.65	18.07	3.00	5.5
NF 0325 SWS <sup>(2)</sup>	1 ½"		325	553	4.80	1.65	14.94	3.00	5.1
NF 0325 WS	1 ½"		325	553	4.80	1.65	18.07	3.00	5.5
NF 0400 WS	1 ½"		400	680	5.75	2.05	18.94	3.00	8.8
NF 0700 WS	2"		700	1189	5.75	2.05	18.94	3.00	8.8
NF 1250 WS	2 ½"		1250	2124	8.27	2.62	23.35	3.00	18.7
NF 1500 WS	3"		1500	2549	8.27	2.62	23.35	3.00	18.7



specifications	NWS 0025 to 0050	NWS 0070 to 1500
recommended operating temperature range (°F)	35 to 176	35 to 176
design operating temperature range (°F)	35 to 176	35 to 176
design operating pressure range (psig)	0 to 232	22 to 232 <sup>(3)</sup>
condensate drain (included) <sup>(4)</sup>	NDK 0050	NDK 1500

pressure correction factors	60	70	85	100	115	145	175	205	235
operating pressure (psig)	60	70	85	100	115	145	175	205	235
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51



(1) at 100 psig. For all other pressures refer to the pressure correction factors above

(2) a shorter version of the standard separator for compact installations and/or low liquid loads

(3) for pressures below 22 psig order with an NDK 0050 condensate drain

(4) all filters are supplied with an automatic float drain. When high liquid loads are anticipated we recommend installing a high capacity external condensate drain. Contact support@n-psi.com for available options