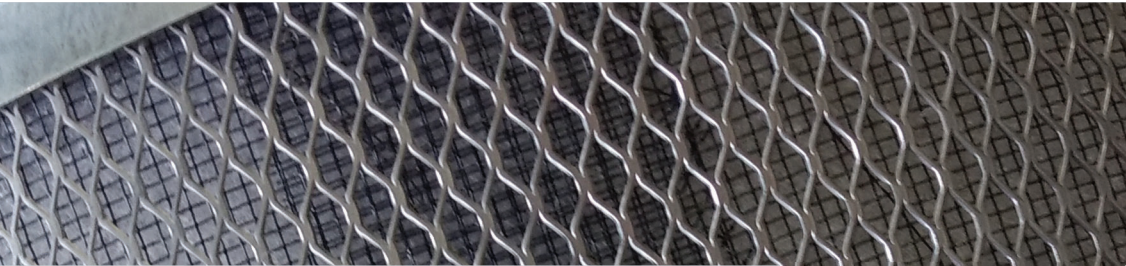


mist eliminators



Exceptional performance, reliability and durability with a low operating cost are all essential in a compressed air system. The nano F⁶ MEL range of mist eliminators delivers all this and more.

MEL mist eliminators can achieve the same high efficiency filtration results as conventional downstream coalescing and particulate filters by removing particles, oil and water aerosols from your compressed air system. However, with a service life of over 10 years and an initial pressure drop of less than 0.5 psig, nano's MEL range provides the most economic filtration value on the market for general purpose protection.

Typically located after an oil lubricated compressor, the MEL mist eliminator also provides optimum protection in the result of a catastrophic failure of the compressor's air/oil separator which would otherwise damage your downstream equipment, products and processes.

features & benefits

- differential pressure gauge mounted and piped
- zero air loss drain (shipped loose)
- heavy duty pressure vessel built in accordance with latest edition of section VIII Div 1 ASME Code
- long service life of 10 + years
- external powder coated as standard; optional interior powder epoxy coating for corrosive environments
- pleated glass fiber coalescing media is 99.97% efficient with particle removal down to 0.3 micron including coalesced liquid water and oil
- element is reinforced with epoxy coated steel wire and epoxy potting compound with perforated metal core for additional support and protection
- pleated media has a far greater surface area for filtration, providing lower pressure drop when compared to a conventional wrapped element
- energy efficient units are utility rebate-friendly
- serviceability without inlet & outlet pipe disruption
- automatic drain vent ports and safety valve port included as standard



applications include:

industrial

automotive

food and beverage

nano-purification solutions llc
charlotte, north carolina
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions ltd
gateshead, tyne and wear
united kingdom

nano-purification solutions GmbH
krefeld, germany

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

technical specification

model	inlet & outlet NPT	rated flow ⁽¹⁾		dimensions (inches)			approx. weight lbs	replacement element part no.
		scfm	Nm ³ /h	A	B	C		
MEL 0250	2"	250	425	54	20	15.5	336	E 0250
MEL 0500	3"	500	850	61	20	22	359	E 0500
MEL 1000	3"	1000	1699	69	28	22.5	620	E 1500
MEL 1250	3" Flg	1250	2124	71	28	22.5	654	E 1500
MEL 1500	4" Flg	1500	2549	71	28	22.5	662	E 1500
MEL 3000	4" Flg	3000	5097	84	36	29.5	1161	E 3000
MEL 5000	6" Flg	5000	8495	90	42	29.5	2378	E 5000

specifications

recommended operating temperature range	68 to 180°F
design operating temperature range	35 to 248°F
design operating pressure range	20 to 150 psig
initial differential pressure	less than 0.5 psig
recommended pressure differential for element change	1.0 psid
filtration performance	0.3 micron @ 99.97% efficiency
ISO air quality class (solids.water.oil)	ISO Class 2.7.3

pressure correction factors

operating pressure (psig)	20	30	40	60	80	100	120	150
correction factor	0.35	0.44	0.54	0.70	0.84	1.00	1.10	1.25

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

(2) for condensate drain options, consult nano



E 0250 to 5000

