

## ▶ ELM SERIES MIST ELIMINATOR AIR FILTERS

## FILTRATION AND SEPARATION ◀

- Ultra low pressure drop reduces energy costs
- Positive gasket seals eliminate media bypass
- Filter change out differential 170 mbar (2.5 psi)
- True Air/Oil Separator
- Long service life

### Applications Include

- Capturing oil fog, mist, or smoke from exhaust and pressure unloading vents on oil flooded compressors, vacuum pumps and blowers
- Any application requiring Low Delta P coalescing of large air volumes
- Vacuum Freeze Drying
- Vacuum Out-Gassing and Vacuum Coating
- Food Processing
- Nailers/Staplers
- Industrial Vacuum Processes
- Cement & Paper Processing

### Design

Mist Eliminators are designed to meet the demand for:

- Efficient removal of oil-mist carryover from piston or oil flooded rotary compressors
- Long service life
- Protection from oil slugs or compressor Air/Oil separator failure

### Features

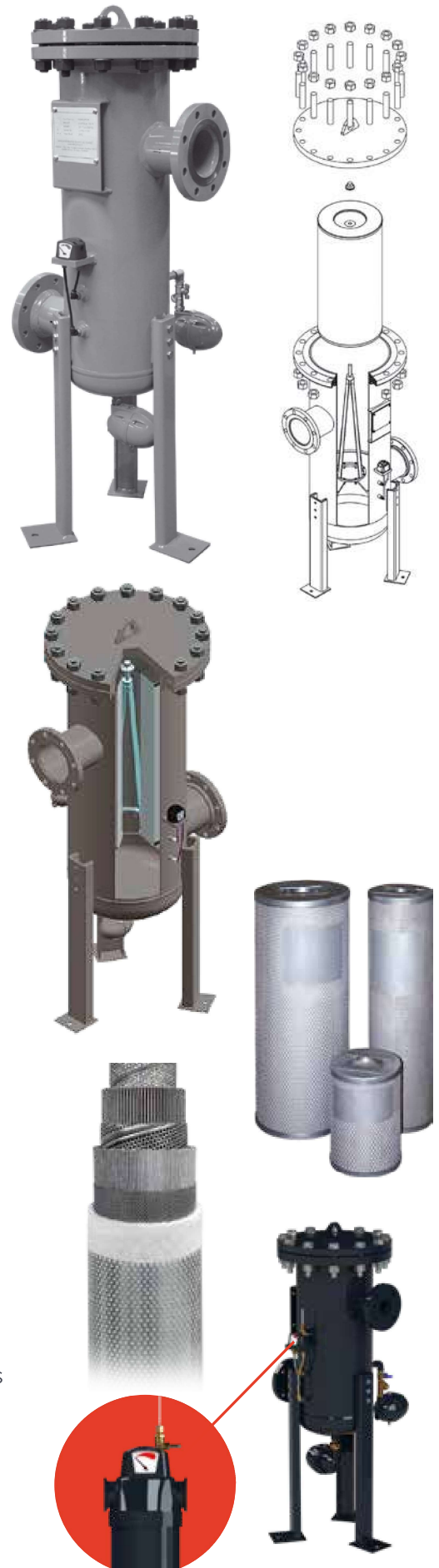
- Very low pressure drop
- High oil removal efficiency
- Easy field changing
- Positive sealing O-rings
- Temperature (continuous) 4°C (40°F) min. 80°C (176°F) max.
- Auto Float Drain is standard
- Multiple drain style options available
- Pressure rating of 14 bar (200 psi)
- Removal of particles down to 0.01 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.01 ppm
- Increased surface area in a given volume allows low velocity separation of ultra fine oil mist
- Elements are grounded to canister, minimizing static electricity problems

### CARBOLESCER ELEMENT (Optional)

Combination of mist eliminator with Activated Carbon bed. Aerosols are coalesced by the mist eliminator down to 0.01 mg/m<sup>3</sup> and oil vapor is absorbed by the Activated Carbon section down to 0.003 ppm. This allows Mikropor Carbolescer users to achieve oil free air even after oil flooded compressors.

### Oil Indicator

Oil indicator is standard for all models with Carbolescer Element.

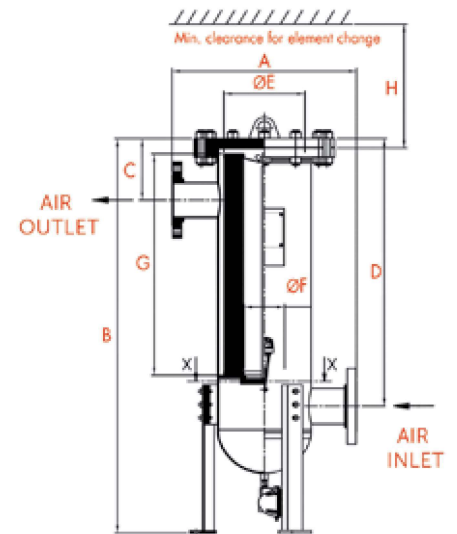
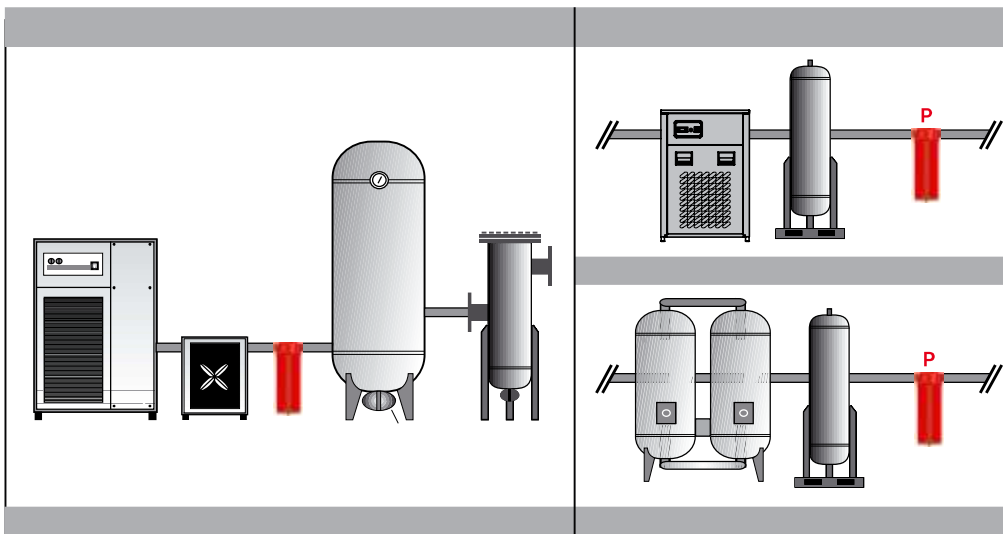


### Correction Factor

For maximum flow rate, multiply model flow rate show in the above table by the correction factor corresponding to the working pressure.

Operating Pressure (bar)	PSI	Correction Factor
1	15	0,5
3	44	0,71
5	73	0,87
7	100	1
9	131	1,12
11	160	1,22
13	189	1,32
14	200	1,38

Drain Type
Electro - Adjustable
External Float Type
Zero-loss Drain
Manual



### Technical Specifications

Model	Drain Port Size	Inlet/Outlet Port Size	Flow Rate		Max. Working Pressure (bar)	Housing Dimensions (mm)							
			(m³/h)	(cfm)		A	B	C	D	Ø E	Ø F	G	H
ELM-150	1/2"	DN50	255	150	14	500	1003	209	459	203	103	305	330
ELM-300	1/2"	DN50	510	300	14	500	1105	209	559	203	103	407	435
ELM-600	1/2"	DN50	1020	600	14	500	1461	209	916	203	103	762	790
ELM-800	1/2"	DN80	1360	800	14	500	1655	279	1084	203	103	915	950
ELM-1200	1/2"	DN80	2040	1200	14	500	1520	281	931	254	103	762	790
ELM-1600	1/2"	DN80	2720	1600	14	500	1671	281	1086	254	103	915	950
ELM-2100	1/2"	DN100	3570	2100	14	500	1575	335	953	300	129	762	790
ELM-2750	1/2"	DN100	4675	2750	14	500	1726	335	1100	300	129	915	950
ELM-4200	1/2"	DN150	7140	4200	14	500	1670	393	983	365	181	762	790
ELM-6000	1/2"	DN150	10200	6000	14	500	1925	393	1238	365	181	950	1045
ELM-8000	1/2"	DN200	13600	8000	14	500	2020	417	1277	386	233	1016	1045
ELM-10000	1/2"	DN250	17000	10000	14	500	2118	417	1307	407	337	1016	1045
ELM-12000	1/2"	DN300	20400	12000	14	500	2688	497	1847	437	337	1524	1550

Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction as per ISO7183.