

VME Series Oil Mist Eliminators

Long element life with low pressure drop saves you time and money.

Low pressure drop means a pressure differential of 1 PSID or less. Long element life means you only change the mist eliminator element about once each decade. How is this possible? With a thick bed of glass fiber, the element facilitates self-cleaning by continuous draining. Contaminants are trapped at various stages within the fiber bed, not only at the surface. This prevents clogging and keeps pressure drop low.

The Van Air Systems Mist Eliminator provides effective, continuous removal of heavy oil contamination in high-volume air systems.

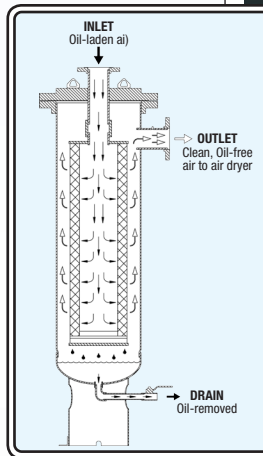
Payback on your investment is 18 months or less.

VME 1250 DP = 1 PSID (constant)
 Typical Coalescer DP = 4 PSID (min. wet operating)
 1250 SCFM = 250 HP = 186 Kw
 6000 hrs/yr (3 shifts) x 186 Kw x \$.07/Kwh
Electric cost per year = \$78,120.00

4 PSID cost = \$3,125.00
 1 PSID cost = -781.00
Savings = \$2,344.00

A few industries served:

- Chemical processing
- Petrochemical processing
- Refining
- Iron and steel production
- Cement and dry materials processing
- Automotive
- Mining



FEATURES

Removes oil and water aerosols from compressor systems

Protects downstream equipment

Ten year element life

Low pressure drop

BENEFITS OF THE MIST ELIMINATOR

Saves energy // Low cost monitor

vanairsystems.com

STANDARD EQUIPMENT

- Coalescing element for oil removal to 1 ppm w/w (assuming inlet loading <200ppm)
- ASME code stamped housing
- Primed white enamel exterior coating
- Manual drain
- Standard vessel design: 1/16" corrosion allowance
- Five-year housing warranty
- Ten-year prorated element warranty

OPTIONAL EQUIPMENT

Electric Drain Valves: Part Numbers

Model EDV-115 (1/2" 115V)	39-10507
Model EDV-230 (1/2" 230V)	39-10508
Model MDV-400I (1" 115V)	39-2411121
Model MDV-400I (1" 230V)	39-2412121
Model MDV-400L (1" 115V)	39-2411111
Model MDV-400L (1" 230V)	39-2412111

Pneumatic (zero loss) Drain Valve

Model PDV-500T (3/4")	39-0284
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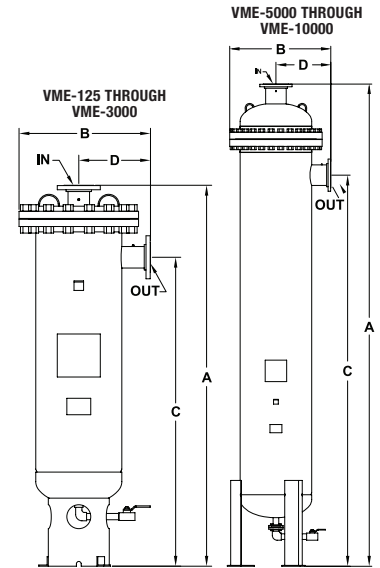
Differential Pressure Indicator

Model PD-7	84-0841
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DIMENSIONS & SPECIFICATIONS

Model No.	A		B		C		D		In/Out Conn. ¹	Drain Conn. ²	Element Model	Weight	
	in	cm	in	cm	in	cm	in	cm				lbs	kg
VME-125	42 1/8	107	23 1/2	60	29	74	13	34	2" FLG	1" NPT	EVME-125	420	191
VME-250	46 1/8	118	23 1/2	60	33	84	13	34	2" FLG	1" NPT	EVME-250	440	200
VME-500	58 1/8	148	23 1/2	60	45	115	13	34	2 1/2" FLG	1" NPT	EVME-500	480	218
VME-850	72 1/8	184	23 1/2	60	59	150	13	34	2 1/2" FLG	1" NPT	EVME-850	525	238
VME-1250	78 3/8	200	25 3/4	66	63 1/4	161	14	36	4" FLG	1" NPT	EVME-1250	710	322
VME-1500	79 3/4	203	27 1/2	70	64 5/8	165	15	39	4" FLG	1" NPT	EVME-1500	820	372
VME-2000	71 5/8	182	34	87	55 1/8	141	18	46	4" FLG	1" NPT	EVME-2000	1040	472
VME-2500	84 5/8	215	34	87	68 1/8	174	18	46	4" FLG	1" NPT	EVME-2500	1170	531
VME-3000	97 5/8	248	34	87	81 1/8	207	18	46	4" FLG	1" NPT	EVME-3000	1300	589
VME-5000	161 5/8	411	34	87	140 1/2	357	18	46	6" FLG	2" NPT	EVME-5000	1945	882
VME-7500	178 1/4	453	42 3/8	108	140	356	23	59	8" FLG	2" NPT	EVME-7500	2900	1314
VME-10000	202 1/4	514	42 3/8	108	164	417	23	59	8" FLG	2" NPT	EVME-10000	3180	1441

¹ Flanges are ANSI Class 150 RF. ² Electric or pneumatic (zero loss) drain recommended. ³ Weight includes element. Dimensions and specifications may change without notice. Please request a certified drawing before pre-piping.



MAXIMUM CAPACITIES SCFM / Nm3hr

Model No.	50 PSIG 3.4 BARG		60 PSIG 4.1 BARG		70 PSIG 4.8 BARG		80 PSIG 5.5 BARG		90 PSIG 6.2 BARG		100 PSIG 6.9 BARG		110 PSIG 7.6 BARG		120 PSIG 8.3 BARG		130 PSIG 9.0 BARG		140 PSIG 9.7 BARG		150 PSIG 10.3 BARG	
	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr	SCFM	Nm3hr
VME-125	70	113	81	130	93	150	104	167	114	183	125	201	136	219	146	235	158	254	169	272	180	289
VME-250	140	225	163	262	185	297	208	334	228	367	250	402	273	439	293	471	315	507	338	544	360	579
VME-500	280	450	325	523	370	595	415	667	455	732	500	804	545	876	585	941	630	1013	675	1085	720	1158
VME-850	476	765	550	884	630	1013	706	1135	774	1245	850	1367	927	1491	995	1600	1071	1722	1148	1846	1224	1968
VME-1250	700	1126	813	1307	925	1487	1038	1669	1138	1830	1250	2010	1363	2192	1463	2353	1575	2533	1688	2714	1800	2894
VME-1500	840	1351	975	1568	1110	1785	1245	2002	1365	2195	1500	2412	1635	2629	1755	2822	1890	3039	2025	3256	2160	3473
VME-2000	1120	1801	1300	2090	1480	2380	1660	2669	1820	2927	2000	3216	2180	3505	2340	3763	2520	4052	2700	4342	2880	4631
VME-2500	1400	2251	1625	2613	1850	2975	2075	3337	2275	3658	2500	4020	2725	4382	2925	4703	3150	5065	3375	5427	3600	5789
VME-3000	1680	2701	1950	3136	2220	3570	2490	4004	2730	4390	3000	4824	3270	5258	3510	5644	3780	6078	4050	6512	4320	6947
VME-5000	2800	4502	3250	5226	3700	5950	4150	6673	4550	7316	5000	8040	5450	8764	5850	9407	6300	10130	6750	10854	7200	11578
VME-7500	4200	6754	4875	7839	5550	8924	6225	10010	6825	10975	7500	12060	8175	13145	8775	14110	9450	15196	10125	16281	10800	17366
VME-10000	5600	9005	6500	10452	7400	11899	8300	13346	9100	14633	10000	16080	10900	17527	11700	18814	12600	20261	13500	21708	14400	23155

Sizing Note: On the chart above, select the lowest operating pressure at the point of installation and read down that column to the nearest flow that meets or exceeds system requirements. For inlets other than 100°F, multiply required capacity by the applicable correction factor below. Find nearest flow that meets or exceeds this net flow in your operating pressure column. Follow row to the left to determine model number. For applications where heavy particulate contamination exists, install 1 micron particulate filter upstream of the mist eliminator to prolong element life.

Maximum Capacities: based on 100 PSIG and 100°F inlet temperature. MWP=150 PSIG at 100°F. Maximum inlet temperature is 300°F. Consult factory for higher pressures.

INLET TEMPERATURE Correction Factors

For	Multiply By	For	Multiply By	For	Multiply By	For	Multiply By
50°F (10°C)	1.10	125°F (52°C)	.96	175°F (79°C)	.88	250°F (121°C)	.79
75°F (24°C)	1.05	150°F (66°C)	.92	200°F (93°C)	.85	300°F (149°C)	.74

Example: Assuming 1400 SCFM and 75°F inlet temperature @ 100 PSIG:

1. Multiply flow by temperature correction factor: 1400 SCFM x 1.05 = 1470 SCFM equivalent flow
2. Select a model that matches or exceeds this capacity at the working pressure of 100 PSIG
3. At 100 PSIG, the model selection is VME 1500

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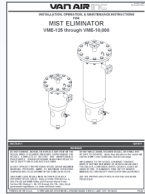
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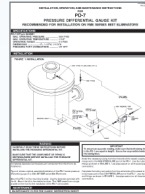
VME Series - PDF Downloads

Installation, Operation and Maintenance Manuals

VME-125 through VME-10000

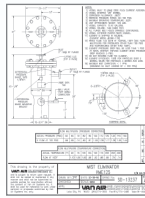


PD-7 Pressure Differential Gauge Kit

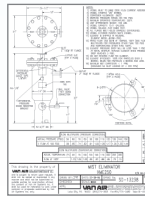


Sales Drawings

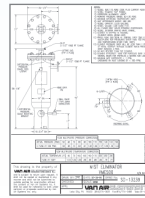
VME-125



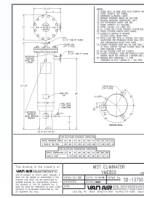
VME-250



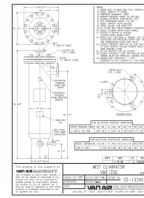
VME-500



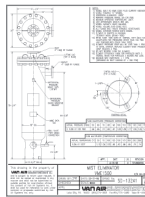
VME-850



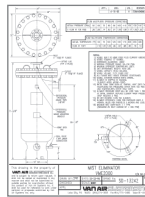
VME-1250



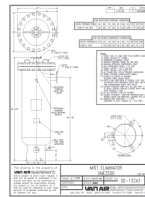
VME-1500



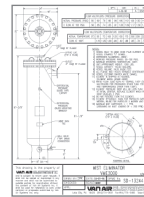
VME-2000



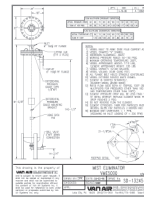
VME-2500



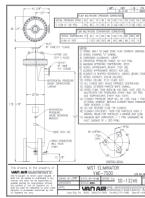
VME-3000



VME-5000



VME-7500



VME-10000

