

Mist Eliminator Compressed Air Filters

HELM US Series

HELM US 150 / 300 / 600 / 800 / 1200 / 1600 / 2100 / 2750 /
4200 / 6000 / 8000 / 10000 / 12000



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 - Gasing
- 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
- Strength to withstand strenuous operating conditions
- Protection from oil slugs or compressor Air/ Oil separator failure

FEATURES

- Very Low pressure drop
- Large oil catching efficiency
- Easy field cleaning
- Positive sealing O-rings

- Temperature (continuous) 36 °F min. 176 °F max.
- Auto Float Drain is Standard
- Multiple drain Style Options Available
- Pressure Rating of 200 psig
- 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



MIST ELIMINATOR ELEMENT

- Ultra low pressure drop reduces energy costs.
- Positive gasket seals eliminate media bypass
- Filter change out differential 2.5 psig
- True Air / Oil Separator
- Long service life

SPECIFICATIONS

Model	Capacity		Connection Size	Drain Port Size	Max. Working Pressure psi	Element Model	Housing Dimensions (in.)							
	m ³ /min	cfm					A	B	C	D	E	F	G	H
HELM US 150	4.25	150	2" ANSI B16.5	1/2" NPT	200	ELM150-ELEMENT	19.7	39.87	8.34	18.2	17	4	12	13
HELM US 300	8.50	300	2" ANSI B16.5	1/2" NPT	200	ELM300-ELEMENT	19.7	43.87	8.34	22.2	17	4	16	17
HELM US 600	17.0	600	2" ANSI B16.5	1/2" NPT	200	ELM600-ELEMENT	19.7	57.87	8.34	36.2	17	4	30	31
HELM US 800	22.7	800	3" ANSI B16.5	1/2" NPT	200	ELM800-ELEMENT	19.7	65.27	11.1	42.8	17	4	36	37
HELM US 1200	34.0	1200	3" ANSI B16.5	1/2" NPT	200	ELM1200-ELEMENT	23.6	60.17	11.15	36.75	19	4	30	31
HELM US 1600	45.3	1600	3" ANSI B16.5	1/2" NPT	200	ELM1600-ELEMENT	23.6	66.17	11.15	42.85	19	4	36	37
HELM US 2100	59.5	2100	4" ANSI B16.5	1/2" NPT	200	ELM2100-ELEMENT	27.56	62.42	13.3	37.5	22.3	5	30	31
HELM US 2750	77.9	2750	4" ANSI B16.5	1/2" NPT	200	ELM2750-ELEMENT	27.56	68.42	13.3	43.43	22.3	5	36	37
HELM US 4200	118.9	4200	6" ANSI B16.5	1/2" NPT	200	ELM4200-ELEMENT	31.5	65.67	15.4	38.63	24.3	7.1	30	31
HELM US 6000	169.9	6000	6" ANSI B16.5	1/2" NPT	200	ELM6000-ELEMENT	31.5	75.67	15.4	48.67	24.3	7.1	37.4	41
HELM US 8000	226.5	8000	8" ANSI B16.5	1/2" NPT	200	ELM8000-ELEMENT	33.5	79.42	16.3	50.2	26.3	9.17	40	41
HELM US 10000	283.2	10000	10" ANSI B16.5	1/2" NPT	200	ELM10000-ELEMENT	39.4	83.47	18.9	51.55	30.3	13.2	40	41
HELM US 12000	339.8	12000	12" ANSI B16.5	1/2" NPT	200	ELM12000-ELEMENT	39.4	105.92	19.65	72.8	30.3	13.2	60	61

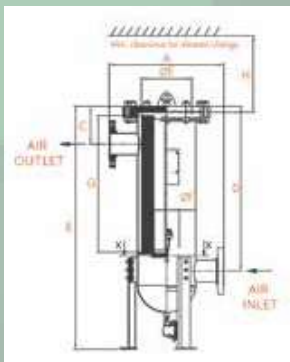
* HERTZ KOMPRESSOREN reserves its rights to change the specifications without any prior notice.

Correction Factor

Operating Pressure (psi)	15	44	73	100	124	145	174	200
Correction Factor	0.5	0.71	0.87	1	1.1	1.18	1.28	1.39

Correction Sample:

If a compressor delivers 4500 cfm at 73 psi please choose your Filter model as follow:
 $4500 \text{ cfm} / 0.80 = 5172 \text{ cfm}$ your model is HELM US 6000.



DRAIN TYPE

Electro-adjustable

External float type

Zero-loss drain

Manual