G SERIES
COMPRESSED AIR FILTERS

Drytec Compressed Air Filters have been designed to meet all requirements of the compressed air filtration world. These air filters provide more comfortable usage for end users with an increased endurance, higher efficiency at lower pressure drop and more port size options.

Filtration

Due to our usage of deep pleating technique, the filtration area is significantly increased remarkably, which leads to a better filtration and higher dirt holding capacity. Drytec Compressed Air Filters have been designed to remove air borne contamination in compressed air stream, delivering energy efficient operation and reliable performance.

Features

The air filters have four efficiency ratings, removing contaminants as small 0.01 micron at up to 290 psi (20 bar)- 1/4" to 3" NPT/BSP pipe sizes. A protected auto float drain (2 mm orifice) is standard for optimal and reliable removal of liquid contaminants.

These air filters have a zero-porosity aluminium and durable epoxy powder-coat finish, along with a corrosion-resistant internal coating for a long service life. Filter combinations are configured to meet specific application requirements. Filters comply with PED and perform as per related ISO 8573 standards. These filters may be equipped with differential pressure gauges for easy maintenance and energy efficiency.

Drytec compressed air filters are always recommended with this system.

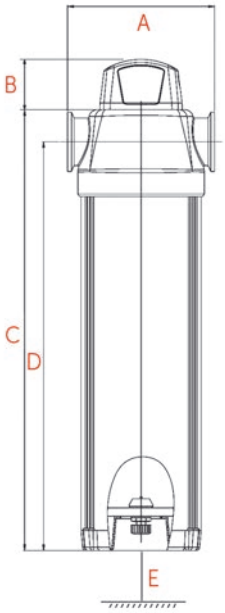
Types of Compressed Air Filters

P	Pre-Filter / Particulate Filter (Filter/Element air flow direction is outside to inside)
X	General Purpose Filter / Water Removal (Filter/Element air flow direction is inside to outside)
Y	Coalescing Filter / Oil Removal (Filter/Element air flow direction is inside to outside)
A	Activated Carbon Filter / Odor Removal (Filter/Element air flow direction is outside to inside)

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
15	218	1.44
16	232	1.50
18	261	1.57
20	290	1.63



G SERIES
COMPRESSED AIR FILTERS

Technical Specifications

Model	Connection Size	Flow Rate		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
		(m^3/h)	(cfm)			A	B	C	D	E
G20	1/4"	20	12	20	M20	75	45	193	175	100
G40	3/8"	40	24	20	M40	75	45	193	175	100
G25	1/4"	25	15	20	M25	102	45	219.5	197.5	125
G50	3/8"	50	30	20	M50	102	45	219.5	197.5	125
G100	1/2"	100	58	20	M100	102	45	257.5	235.5	165
G150	3/4"	150	88	20	M150	123	45	302.5	275.5	205
G200	3/4"	200	117	20	M200	123	45	366.5	339.5	265
G250	1"	250	147	20	M250	123	45	406.5	379.5	315
G300	1 1/4"	300	176	20	M300	123	45	463	427.5	365
G500	1 1/4"	500	294	20	M500	123	45	493	457.5	395
G600	1 1/2"	600	353	20	M600	123	45	538	502.5	440
G851	2"	851	500	20	M851	160	45	625.5	583.8	495
G1210	2"	1210	712	20	M1210	160	45	695.5	653.8	565
G1520	2 1/2"	1520	930	20	M1520	194	45	730	672	445
G1820	3"	1820	1140	20	M1820	194	45	870	813	565
G2220	3"	2220	1380	20	M2220	194	45	924	867	615
G2620	3"	2620	1541	20	M2620	194	45	1068	1011	695

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0.01	0.01
Max. Oil Carryover at 21°C (mg/m^3)	5	0.5	0.01	0.003
Max. Working Temperature (°C)	80	80	80	25
Initial Pressure Loss (mbar)	40	80	100	80
Pressure Loss for Element Change (mbar)	700	700	700	700
Element Color Mode	White	White	White	Metal SS

Indicator Type
Gauge with or without electrical contact

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

Notes

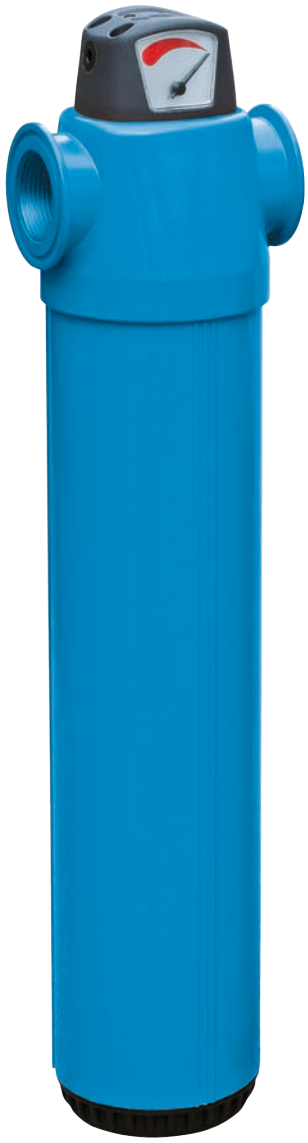
1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
4) Flow rates are based on a 7 bar operating pressure, for flows at other pressures use correction factor given above.
5) All filters are suitable for use with mineral and synthetic oils.
6) Gauge type pressure indicators are fitted to models G20 to G2620 as standard.
7) All filters are in conformity with the Pressure Equipment Directive (97/23/EC).

Ordering

The complete filter model number contains the size and grade, example - 1" general purpose filter model G250MX with replacement filter element model M250X. 250 Represent 250 m^3/h capacity and X represents the general purpose element.

GO SERIES
COMPRESSED AIR FILTERS

New additional to our G series, Drytec GO series compressed air filters are designed for easy element replacement for “zero clearance” ability.



Features

The air filters have four efficiency ratings, removing contaminants as small as 0.01 micron at up to 290 psi (20 bar) - 1/4” to 3” NPT/BSP pipe sizes. A protected auto float drain (2 mm orifice) is standard for optimal and reliable removal of liquid contaminants.

These air filters have zero-porosity aluminium and durable epoxy powder-coat finish, along with a corrosion resistant internal coating for a long service life.

Filter combinations are configured to meet specific application requirements. Filters comply with PED and perform as per related ISO 8573 standards.

These filters may be equipped with differential pressure gauges for easy maintenance and energy efficiency. Drytec compressed air filters are always recommended with this system.

Element Features

Drytec offers Superior protection - from 1 micron to 0,01 micron. Durable element construction and efficient drain layer ensures continued performance with optimal element change intervals. Elements are also easy to replace with the head clips.

Drytec Elements Have Been Designed for Easy Handling

1- Deep pleating also enables a lower pressure drop.

2- Supreme collapse resistance due to usage of fluted stainless tube, providing strength against pressure drops while improving the performance by passing air diagonally through the element.

3- PVC impregnated foam favors water/oil drainage.

GO SERIES
COMPRESSED AIR FILTERS

Head Clamping

Head Clamping provides serial connection of filters without any extra piping

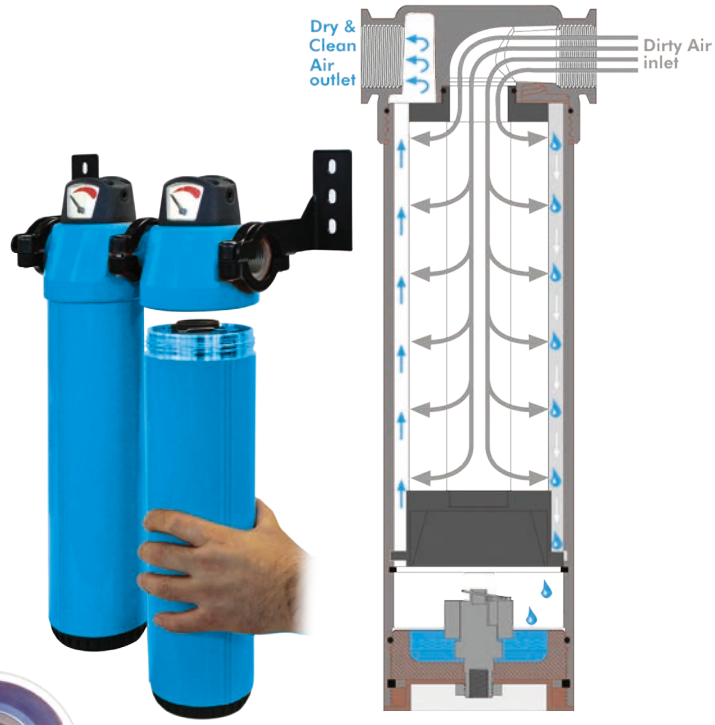
Drainage Ribs

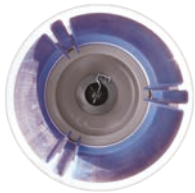
Drainage Ribs favors the humidity flow

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
15	218	1.44
16	232	1.50
18	261	1.57
20	290	1.63





Zero Clearance

A major innovation for servicing the zero clearance design gives a quicker, easier, simpler filter change, with no need for any specialist tools.

Anodising

Anodising provides supreme corrosion resistance. Anodised surface treatment is proven to be better than other surface treatment methods such as Alocrome coating. Contact Drytec to get Comparison Test results between competitor filters with Alocrome coating and Drytec Filters with Anodising treatment.

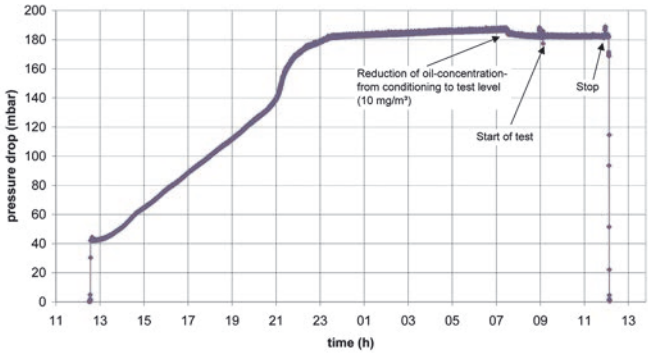
With Anodising

Without Anodising

Independent Test Report as Per ISO 12500-1

Filter element:		**M50Y**	
Element		**002**	
Standard parameters and measuring results			
Measuring parameters	**unit**	**standard**	**Test**
Calendar date of test			28./29.09.10
Inlet temperature	°C	20 ± 5	18,5 ± 0,5
Inlet pressure	bar (e)	7	7
Ambient temperature	°C	20 ± 5	17,5 ± 0,5
Inlet dew point	°C	≤ 10 °C	0 - 4
Main flow through the test filter	**m³/h**		**50**
Partial flow	m³/h		5,1
Time of conditioning	h		20,38
Measuring time	h		2,75
Inlet oil concentration at conditioning	mg/m³		23 ± 1
Inlet oil concentration at test	mg/m³	10 ± 10%	10 ± 1
Residual oil concentration	**mg/m³**		**0,01**
Pressure drop filter element	**mbar**		**183**
Remarks			mouth of probe oil-free
Test carried out by			
Signature			

Drytec M50Y-2 at 50 m³/h ANR - 7 bar(e)
28.-29.09.10



GO SERIES
COMPRESSED AIR FILTERS

Technical Specifications

Model	Connection Size	Flow Rate		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
		(m^3/h)	(cfm)			A	B	C	D	E
GO20	1/4"	20	12	20	MO20	75	45	193	175	7
GO40	3/8"	40	24	20	MO40	75	45	193	175	7
GO25	3/8"	25	15	20	MO25	102	45	214.5	192.5	7
GO50	3/8"	50	30	20	MO50	102	45	214.5	192.5	7
GO100	1/2"	100	58	20	MO100	102	45	252.5	230.5	7
GO150	3/4"	150	88	20	MO150	123	45	297.5	270.5	8
GO200	3/4"	200	117	20	MO200	123	45	361.5	334.5	8
GO250	1"	250	147	20	MO250	123	45	401.5	374.5	8
GO300	1 1/4"	300	176	20	MO300	123	45	458	422.5	8
GO500	1 1/4"	500	294	20	MO500	123	45	488	452.5	8
GO600	1 1/2"	600	353	20	MO600	123	45	533	497.5	9
GO851	2"	851	500	20	MO851	160	45	622.5	581	9
GO1210	2"	1210	712	20	MO1210	160	45	692.5	651	9
GO1520	2 1/2"	1520	930	20	MO1520	194	45	725.5	669	10
GO1820	3"	1820	1140	20	MO1820	194	45	865	808	10
GO2220	3"	2220	1380	20	MO2220	194	45	919.5	863	11
GO2700	3"	2700	1541	20	MO2700	194	45	1063.5	1007	11

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0.01	0.01
Max. Oil Carryover at 21°C (mg/m^3)	5	0.5	0.01	0.003
Max. Working Temperature (°C)	80	80	80	25
Initial Pressure Loss (mbar)	40	80	100	80
Pressure Loss for Element Change (mbar)	700	700	700	700
Element Color Mode	White	White	White	Metal SS

Indicator Type
Gauge with or without electrical contact

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

Notes

1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
4) Flow rates are based on a 7 bar operating pressure, for flows at other pressures use correction factor given above.
5) All filters are suitable for use with mineral and synthetic oils.
6) Gauge type pressure indicators are fitted to models GO25 to GO2700 as standard.
7) All filters are in conformity with the Pressure Equipment Directive (97/23/EC).

Ordering

The complete filter model number contains the size and grade, example - 1" general purpose filter model GO250MX with replacement filter element model MO250X. 250 Represent 250 m^3/h capacity and X represents the general purpose element.

FLANGED COMPRESSED AIR FILTERS

Features

- Elements are assembled with a tie rod system
- Two external float drains for maximum drainage
- Unique design for pre-separation zone
- Strong welded design
- CE and ASME tanks available
- Design for easy element change from top flange

External Float Drain

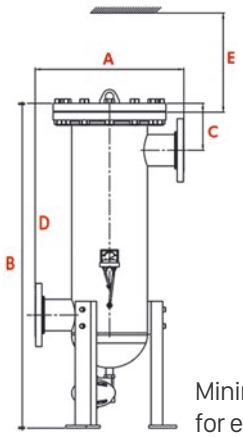
Drytec external drain is designed to remove liquid condensation from collection points in a Compressed Air System.

Durable epoxy powder-coat finish and corrosion resistant internal anodised coating for longer service life.

Correction Factor

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

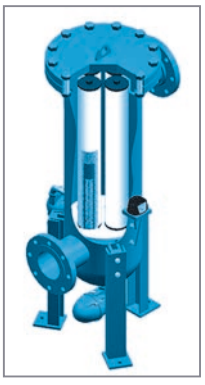
Operating Pressure (bar)	PSI	Correction Factor
1	15	0.5
3	44	0.71
5	73	0.87
7	100	1
9	131	1.12
11	160	1.22
13	189	1.32
14	200	1.38



Minimum clearance for element change

Minimum clearance for element change

High Performance Elements Inside



FLANGED COMPRESSED AIR FILTERS

Technical Specifications

Model	Drain Port Size	Inlet/Outlet Port Size	Flow Rate		Max. Working Pressure (bar)	Element Model	Number of Elements	Housing Dimensions (mm)				
			(m^3/h)	(cfm)				A	B	C	D	E
F2500	1/2''	DN80	2500	1470	14	M1200	2	450	1287	277	747	650
F3200	1/2''	DN100	3200	1880	14	M1200	3	450	1317	277	767	650
F4300	1/2''	DN100	4300	2530	14	M1200	4	530	1344	279	769	650
F6500	1/2''	DN150	6500	3825	14	M1200	6	580	1425	331	796	650
F8500	1/2''	DN150	8500	5000	14	M1200	8	650	1439	333	798	650
F11000	1/2''	DN200	11000	6470	14	M1200	10	750	1504	365	825	650
F14000	1/2''	DN200	14000	8235	14	M1200	14	800	1545	383	833	650
F17000	1/2''	DN250	17000	10000	14	M1200	16	850	1583	417	862	650
F21000	1/2''	DN300	21000	12350	14	M1200	17	850	1680	447	887	650
F25500	1/2''	DN350	25500	15000	14	M1200	23	850	1778	487	917	650
F30000	1/2''	DN350	30000	17650	14	M1200	28	850	1778	487	917	650

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0.01	0.01
Max. Oil Carryover at 21°C (mg/m^3)	5	0.5	0.01	0.003
Max. Working Temperature (°C)	80	80	80	25
Initial Pressure Loss (mbar)	40	80	100	80
Pressure Loss for Element Change (mbar)	700	700	700	700
Element Color Mode	White	White	White	Metal SS

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

Notes

1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
4) Flow rates are based on a 7 bar operating pressure, for flows at other pressures use correction factor given above.
5) All filters are suitable for use with mineral and synthetic oils.
6) Other standards for flanged connections are available.
7) Direction of air flow is inside to out, through filter element.

Ordering

The complete filter model number contains the size and grade, Example - pipe size NW100 oil removal filter with model filter F3200MY replacement filter element model M1200Y.

MIST ELIMINATOR COMPRESSED AIR FILTERS

- 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-Gasing and Vacuum Coating
- Food Processing
- Nailers/Staplers
- Industrial Vacuum Processes
- Cement & Paper Processing Design

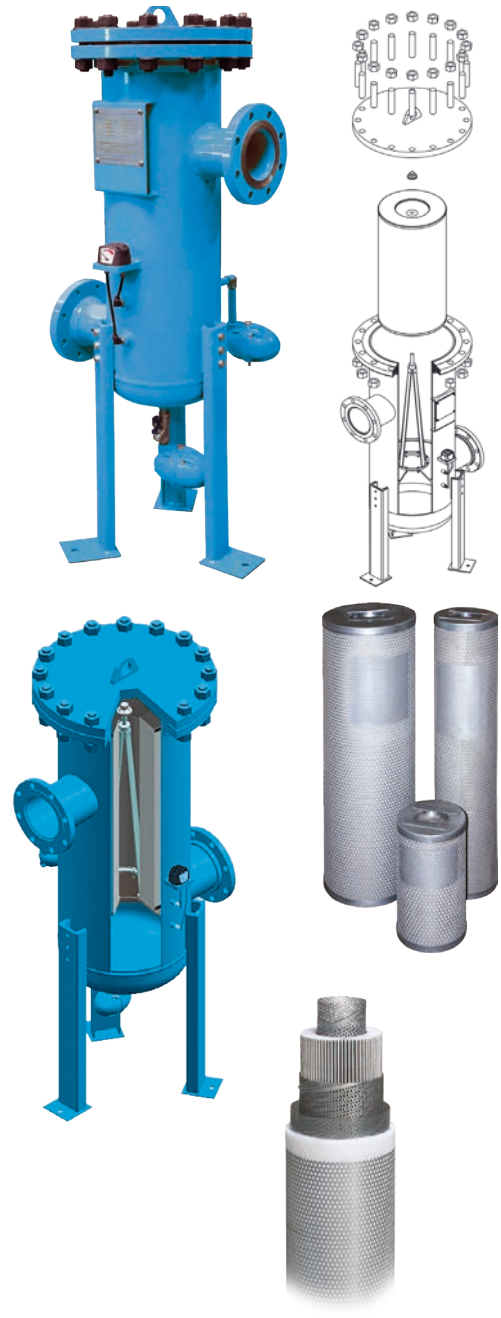
Design

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) 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



Correction Factor

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

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

Operating Pressure (bar)	PSI	Correction Factor
1	15	0.5
3	44	0.71
5	73	0.87
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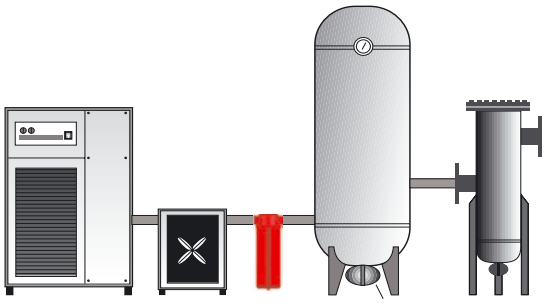
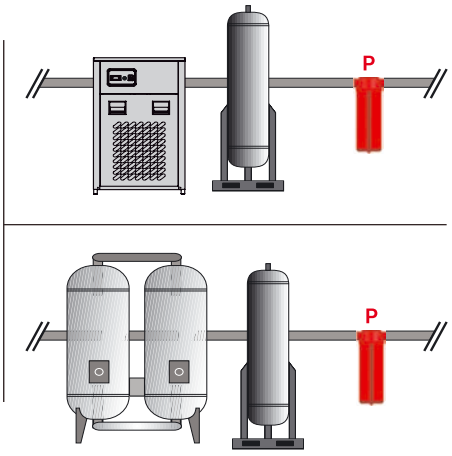
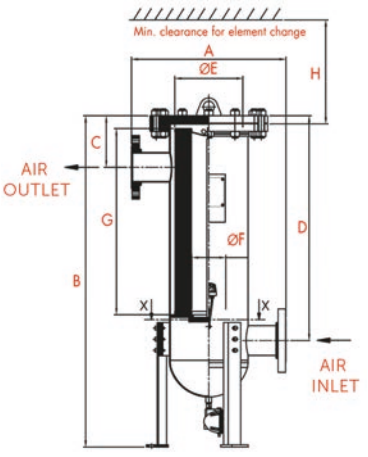
MIST ELIMINATOR COMPRESSED AIR FILTERS







Technical Specifications

Model	Capacity		Connection Size			Housing Dimensions (mm)				
	(Nm³/h)	(scfm)				A	B	C	D	E
G-ELM100	35	20	3/8"	1/2"	-	102	45	257,5	235,5	165
G-ELM100	35	20	3/8"	1/2"	-	102	45	257,5	235,5	165
G-ELM100	35	20	3/8"	1/2"	-	102	45	257,5	235,5	165
G-ELM100	35	20	3/8"	1/2"	-	102	45	257,5	235,5	165
G-ELM150	45	25	1/2"	3/4"	1"	123	45	302,5	275,5	205
G-ELM200	50	30	3/4"	1"	-	123	45	366,5	339,5	265
G-ELM250	70	40	3/4"	1"	-	123	45	406,5	379,5	315
G-ELM300	85	50	1"	1 1/4"	1 1/2"	123	45	463	427,5	365
G-ELM500	100	60	1 1/4"	1 1/2"	-	123	45	493	457,5	395
G-ELM600	130	75	1 1/4"	1 1/2"	-	123	45	538	502,5	440
G-ELM851	170	100	1 1/4"	1 1/2"	2"	160	45	625,5	583,8	495
G-ELM1210	200	120	2"	-	-	160	45	695,5	653,8	565

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	ØE	ØF	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