mikropor

F Series (1500 scfm - 17700 scfm)

Flanged Compressed Air Filters

High Performance Elements inside

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

The Mikropor 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.

Mikropor America Inc. / www.mikroporamerica.com
251 N Roeske Aveneu Michigan City IN 46360 T: 219.878.1550

Rev No: 170719-MAB

Flanged Compressed Air Filters

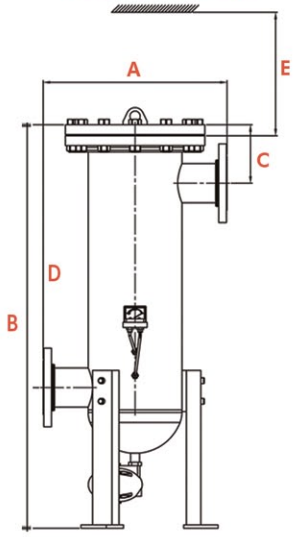
Technical Specifications

Model	Drain Port Size (NPT)	Inlet/Outlet Port Size (FLG)	Flow Rate (scfm)	Max. working pressure (psi)	Element Model	Number of Elements	Housing Dimensions (inch)				
							A	B	C	D	E
F-US-1500	1/2"	3" FLG	1500	200	M1200	2	17.7"	51"	11"	29.5"	25.5"
F-US-1900	1/2"	4" FLG	1900	200	M1200	3	17.7"	52.2"	11"	30.3"	25.5"
F-US-2500	1/2"	4" FLG	2500	200	M1200	4	20.9"	53.2"	11.1"	30.4"	25.5"
F-US-3800	1/2"	6" FLG	3800	200	M1200	6	22.8"	56.4"	13.1"	31.4"	25.5"
F-US-5000	1/2"	6" FLG	5000	200	M1200	8	25.6"	57.1"	13.25"	31.56"	25.5"
F-US-6500	1/2"	8" FLG	6500	200	M1200	10	29.5"	59.6"	14.5"	32.6"	25.5"
F-US-8300	1/2"	8" FLG	8300	200	M1200	14	31.5"	60.7"	15"	32.7"	25.5"
F-US-10000	1/2"	10" FLG	10000	200	M1200	16	33.5"	64"	16.3"	33.84"	25.5"
F-US-12400	1/2"	12" FLG	12400	200	M1200	17	33.5"	66"	17.5"	34.8"	25.5"
F-US-15000	1/2"	14" FLG	15000	200	M1200	23	39.4"	69.7"	18.9"	35.8"	25.5"
F-US-17700	1/2"	14" FLG	17700	200	M1200	28	39.4"	69.7"	18.9"	35.8"	25.5"

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 70°F / 21°C (mg/m³)	5	0.5	0.01	0.003
Max. working temperature (°F)	176	176	176	77
Initial pressure loss (psi)	0.58	1.16	1.45	1.16
Pressure loss for element change (psi)	10.15	10.15	10.15	10.15
Element colour code	WHITE	WHITE	WHITE	METAL SS

DRAIN TYPE
Electro - adjustable
External float type
Zero-loss Drain
Manual

Minimum clearance for element change



Correction Factor

Operating Pressure (barg)	1	3	5	7	9	11	13	14
PSIG	15	44	73	100	130	160	189	200
Correction Factor	0.5	0.71	0.87	1	1.12	1.22	1.32	1.38

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

Correction Sample:

if an compressor delivers 3000 scfm at 160 psi please choose your Filter model as follow:
3000 scfm / 1.22 = 2460 scfm your model is F-US-2500

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 100 psi 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, inside to out, through filter element

ORDERING:

The complete filter model number contains the size and grade,
Example - pipe size 6" FLG oil removal filter with model filter F-US-3800MY replacement filter element model M1200Y.

Rev No: 170719-MAB

Mikropor America Inc. / www.mikroporamerica.com
251 N Roeske Aveneu Michigan City IN 46360 T: 219.878.1550