Manufacturing Forward

HG-US & HGH-US SERIES
HIGH PRESSURE AIR FILTERS

www.mikroporamerica.com

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Mikropor began its journey in 1987 with a passion to create "Tomorrow's Technology" and has become one of the leading manufacturers of atmospheric air filtration solutions and compressed air treatment systems for a variety of industries.

By closely following the latest developments in technology, Mikropor's "Best in Class" products and solutions are appreciated by customers in more than 150 countries.

The company's sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to technology. Mikropor is an environmentally conscious company that values people, while developing products that extend the needs and expectations of customers.

With this mission, Mikropor continues to become one of the most recognized brands in the world by expanding its global penetration in the field of technological filtration and contributes to a healthier planet.

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HG-US & HGH-US SERIES HIGH PRESSURE AIR FILTERS

High Pressure &
High Performance

725 psi

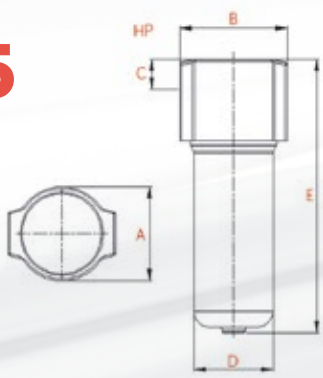
Features

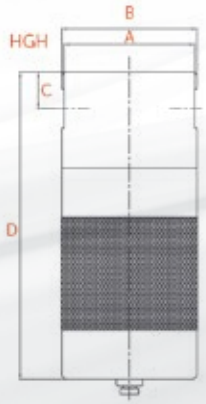
Mikropor manufactures a line of High Performance Compressed Air Filters, Moisture Separators in two different ranges;
725 psi range made of Aluminium. No welding, strong and reliable design.
5075 psi range made of Steel. No welding and designed for reliability at very high pressure applications.

Anodised Aluminium Design with High Performance

Mikropor High Pressure Range Compressed Air Filters are NO-weld design. These Filters are built with ample wall thickness and as a result are extremely robust. In-house high pressure test facilities assure the performance. All inner and outer surfaces of 725 psi Aluminium design Filters are Anodised, where 5075 psi Carbon Steel design Filters are epoxy electro powder coated.

5075 psi





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.
4) Flow rates are based on 725 psi for HG-US and 5075 psi for HGH-US filters.
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.

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Technical Specifications

Model	Connection Size	Flow Rate at 725 psi (50 bar)		Max. Working Pressure (psi)	Element Model	Housing Dimensions (inch)		
		(m^3/h)	(cfm)			Width	Lenght	Height
HG-US-42	1/4"	71	42	725	M-US-42	5,5"	5,5"	9"
HG-US-125	1/2"	212	125	725	M-US-125	5,5"	5,5"	9"
HG-US-250	3/4"	425	250	725	M-US-250	5,5"	5,5"	9"
HG-US-350	1"	595	350	725	M-US-350	6,5"	6,5"	15"
HG-US-500	1"	850	500	725	M-US-500	6,5"	6,5"	15"
HG-US-940	1 1/2"	1600	940	725	M-US-940	6,5"	6,5"	15,5"
HG-US-1470	2"	2500	1470	725	M-US-1470	7,5"	7,5"	16,5"
HG-US-1765	2 1/2"	3000	1765	725	M-US-1765	8"	8"	16,5"

Model	Connection Size	Flow Rate at 725 psi (50 bar)		Max. Working Pressure (psi)	Element Model	Housing Dimensions (inch)		
		(m^3/h)	(cfm)			Width	Lenght	Height
HGH-US-60	1/4"	102	60	5075	M-US-42	5,5"	5,5"	7"
HGH-US-175	1/2"	298	175	5075	M-US-125	5,5"	5,5"	7,5"
HGH-US-350	3/4"	595	350	5075	M-US-250	5,5"	5,5"	8,5"
HGH-US-500	1"	850	500	5075	M-US-350	6,5"	6,5"	11"
HGH-US-700	1"	1190	700	5075	M-US-500	6,5"	6,5"	13,5"
HGH-US-1317	1 1/2"	2240	1317	5075	M-US-940	6,5"	6,5"	15,5"
HGH-US-2058	2"	3500	2058	5075	M-US-1470	7,5"	7,5"	16,5"
HGH-US-2470	2 1/2"	4200	2470	5075	M-US-1765	8"	8"	16,5"

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 (mg/m^3)	5	0.5	0.01	0.003
Max. Working Temperature (°F)	176	176	176	122
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 Color Mode	White	White	White	Metal SS

Drain Type
HG-US Manual Brass Drain
HGH-US Manual Brass Drain

For 0,003 ppm quality oil in the air, the inlet temperature should be 77°F

Correction Factor for HG-US

Pressure (bar)	Pressure (psi)	F1
20	290	0,41
25	362	0,52
30	435	0,61
35	507	0,71
40	580	0,8
45	652	0,9
50	725	1

Correction Factor for HGH-US

Pressure (bar)	Pressure (psi)	F1
100	1450	0,29
150	2175	0,43
200	2900	0,57
250	3625	0,72
300	4351	0,86
350	5075	1

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