SMF Series Micro-Filter

Primary and Secondary Micro-Filters (X and Y)

These microfilters are for separating oil, water, and solid particles down to a size of 0.01 micron. In the design of the arrangement structure of these filters, the purpose of the first filter is primary purification and filtration, and protection of the second filter in the system against bulk contamination. If the filter operates in humid conditions and air cannot pass through the filter element, the air will force liquid particles through the filter element media under pressure, causing pressure drop and reduced filter performance, which necessitates its replacement.

Activated Carbon Micro-Filters (A)

Oil vapor in gaseous form easily passes through primary filters. To effectively absorb these vapors, activated carbon filters (Model A) are designed with a large volume of activated carbon. Since humid air reduces the efficiency of activated carbon in absorbing contaminants, these filters are usually installed after the air dryer. This ensures that oil vapor and unpleasant odors are completely removed.

Features:

SMF 450 160

SMF 450 210

SMF 450 300

SMF 450 400

SMF 450 500

whose diam

removed the

The filter body is made of cast aluminum and has a durable structure.

The filter body decreases before painting and undergoes an anti-abrasion treatment.

The possibility of parallel installation of these filters makes installation and maintenance easy.

250,0

333,3

500,0

666,7

833,3

15,0

20,0

30,0

40,0

50,0

Equipped with a differential pressure indicator and auto drain.

Advantages:

790

905

875

1020

1185

130

130

130

130

130

80

80

80

80

80

5 - 18

5 - 18

5 - 18

5 - 18

5 - 18

1,5 - 85

1,5 - 85

1,5 - 85

1,5 - 85

1,5 - 85

175

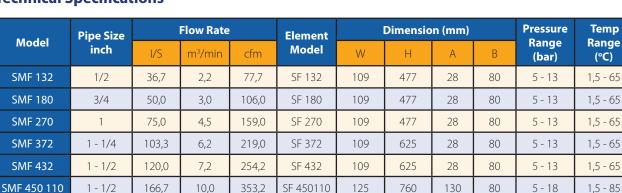
175

205

205

205

- Protection of downstream equipment.
- Providing high-quality compressed air to achieve international standards.
- Reducing production and maintenance costs.
- Improving performance and quality.
- Usable for all types of air compressors and compatible with various lubricants used.



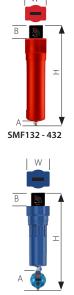
SF 450160

SF 450210

SF 450300

SF 450400

SF 450500



SMF450 110 - 450 500

X	Ŷ	
High efficiency general, protection,	High efficiency removal filtration dust	Dust p
dust particles water mist and oil mist	particles water mist and oil mist whose	than 0.0
vhose diameter more than 1µm can be	diameter more than 0.01µm can be	remove
emoved the residual content of oil mist	removed the residual content of oil mist	of
does not exceed	does not exceed	0.00
0.6 m³/mg (21°C) 1PPM (w)	0.01 m³/mg (21°C) 0.01ppm (w)	

529,8

706,4

1059,5

1412,7

1765,9

0.01 m³/mg (21°C) 0.01ppm (w)

particles whose diameter more .01µm oil vapor and odor can be ed the maximum residual content f oil vapor does not exceed 03 m³/mg (21°C) 0.003ppm (w)

Α

Filtration Grade							Х				Y			А			
Size of solid particles (ISO 12500-3)							1µm				0.01µm			-			
Filtration performance of solid particles (ISO 12500-3)							+99.999%				+99.999%			+99.999%			
Filtration performance of oil (ISO12500-1)								+80%				+99.9%			_		
Residual oil content (ISO 12500-1)							0.6mg/m ³				<0.01mg/m ³			<0.004mg/m ³			
Pressure	Barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Psig	15	29	44	59	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		0.38	0.53	0.65	0.63	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

Technical Specifications

2

2

3

3

Be on the Safe side!





