AIR/OIL SEPARATORS

Why Mikropor Separators?

With over 3000 Air/Oil Separator designs for compressors, Mikropor offers multiple options for the full range of air flow and performance requirements.

Mikropor Air/Oil Separators

Conventional, pleated, depth construction, spin-on and state-of-the-art "sep-n-sep" design separators allow Mikropor to cover the air/oil separation needs of the entire compressor applications.

Air Flow Rates of Mikropor Air/Oil Separators (m^3/min @ 7 bar working pressure)

Dimensions

Air/Oil Separator Overall Height (mm)

Air/Oil Separator Body Diameter (mm)		150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
110	Conventional	1	2	2															
	3S	3	5	5															
	Sep-n-Sep®																		
135	Conventional	2	2	3	3	4	5												
	3S	4	5	6	8	8	9												
	Sep-n-Sep®																		
150	Conventional	2	2.5	3	4	5	5	6	7										
	3S	4	5	7	8	10	11	12	13										
	Sep-n-Sep®																		
170	Conventional	2	3	4	5	5	6	7	8	9	9								
	3S	4	6	8	10	11.5	13	14	16	17	19								
	Sep-n-Sep®																		
200	Conventional		3	5	5	7	7	8	9	10	11	12							
	3S		7	9	11	13	15	17	19	21	23	25							
	Sep-n-Sep®																		
220	Conventional			5	6	7	8	9	11	12	13	14	15	16					
	3S			10	13	15	17	19	22	23	26	28	30	33					
	Sep-n-Sep®																		
270	Conventional			7	8	9	10	12	13	15	16	17	19	20	22	23	24		
	3S			14	15	18	21	24	27	29	32	35	38	41	44	47	49		
	Sep-n-Sep®			21	23	27	31	36	40	44	48	52	56	61	66	70	73		
300	Conventional			8	9	10	12	13	15	17	18	20	21	23	24	26	28	29	31
	3S			15	18	21	24	27	30	34	37	40	43	46	49	53	57		
	Sep-n-Sep®			24	28	32	37	41	46	53	57	62	66	71	76	82	88		
350	Conventional				10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
	3S				20	24	28	32	36	40	44	48	52	56	60				
	Sep-n-Sep®				32	38	44	50	56	63	69	75	81	88	94				
375	Conventional				11	13	15	17	19	21	23	25	27	29	32	33	35	37	39
	3S				22	26	30	34	38	42	46	50	54	58					
	Sep-n-Sep®				34	40	47	54	60	66	72	79	85	91					
400	Conventional					15	17	19	21	23	25	27	29	32	34	36	38	40	42
	3S					30	34	37	42	46	51	55	59						
	Sep-n-Sep®					47	52	59	67	73	81	88	94						
470	Conventional						20	22	25	27	30	33	35	37	41	43	45	48	51
	3S						40	45	50	55									
	Sep-n-Sep®						63	71	79	87									
500	Conventional							24	27	30	33	36	39	42	45	48	51	54	56
	3S							50	55	60									
	Sep-n-Sep®							82	91	100									

AIR/OIL SEPARATORS

Conwrap Separators

Mikropor "Conwrap" Separators are standard wrapped style separators. These separators are designed for outside to inside flow and can be used with all oil injection Rotary Vane and Rotary Screw Compressors. Conwrap separators operate between 1 to 60 m^3/min flow rate at 7 bar with 1 to 3 mg/m^3 oil carry over.

CONWRAP

"3S" Depth Construction Air/Oil Separators

The revolutionary Mikropor "3S" Separator is designed to fit the smaller separator housings without sacrificing operating performance. The "3S" separator has double to tripled capacity when compared to a conventional separator with the same dimensions. The "3S" separator has 1/2 - 1/3 of the volume of a conventional separator functioning in the same operating conditions. This increased capacity is achieved with specially designed progressive type, deep bed, coalescing media using an increased number of wraps.

3S - SEPARATORS

Pleated Air/Oil Separators

Pleated separators increase the media surface area to reach higher capacities while maintaining the dimensions. Mikropor manufactures dozens of pleated separator designs.

PLEATED

Zero Spin-On Type Air/Oil Separators

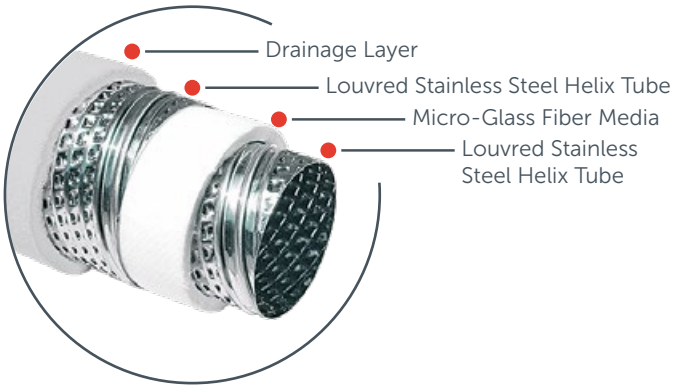
Mikropor Spin-On Type Air/Oil Separators are manufactured as exchangeable elements. Because Spin-Ons do not require a compressor housing, they permit uncomplicated and quick replacement without dismantling the compressor. Spin-On Type Air/Oil Separators are available for 0.5 to 7 m^3/min flow rates operating at 7 bar.

Model	Maximum Flow Rate (m^3/min @ 7 bar)	Dia 1 (mm)	Dia 2 (mm)	Height (mm)
Zero 10	0.5	Ø79	Ø80	84
Zero 20	1	Ø79	Ø83	137
Zero 30	2	Ø97	Ø100	214
Zero 40	1.5	Ø97	Ø100	175
Zero 50	4	Ø110	Ø111	261
Zero 60	3	Ø138	Ø141	192
Zero 70	6	Ø138	Ø141	314
Zero 80	7	Ø138	Ø141	349

AIR FILTER ELEMENTS

Micro-Glass Fiber

High efficiency Micro-Glass nanofiber media (80 times finer than Cellulose Fiber) delivers higher targeted efficiencies, longer service life, wide chemical and synthetic lubricant compatibility even at extreme working temperatures.



Element 4 Levels

Mikropor offers four layers of Superior Protection-from 1 micron to 0.01 micron. Durable element construction and an efficient drain layer ensure continued performance with optimal element change periods.

Helix Tubes for Strength

Mikropor Compressed Air Filters have louvered stainless steel helix tubes providing increased strength and protection against severe pressure drops while improving performance by forcing air to pass diagonally through the element.

Synthetic Compatibility and Durable Epoxy

Mikropor Compressed Air Filters are compatible with all synthetic lubricants in the industry. Durable Epoxy securely bonds the robust end caps to the filter tubes and will not be affected by the synthetic lubricant in compressed air.

Test

With over 30 years of experience Mikropor manufactures the best performing replacement elements in the industry. Through rigorous testing and validation processes Mikropor assures that the replacement elements perform equal to or better than the original elements. Replacement elements have been designed and tested in ourstate-of-the-art test laboratories.

Mikropor labs are capable of making the following tests;

- Differential pressure at given flow rates
- Particle efficiency tests
- Oil aerosols measurements
- Pressure dew point

All tests are conducted as per the relevant ISO 12500 test standards.