

# B-AIR SERIES

## BREATHING AIR FILTRATION SYSTEMS

operating pressure	<b>16 bar</b>
volume flow rate	<b>78 to 780 Nm<sup>3</sup>/h</b>
connections	<b>1/2" to 1 1/2"</b>
operating temp. range	<b>1,5 to 65 °C</b>
standard colour	<b>RAL 1016</b>

### APPLICATIONS

- breathing air

### DESCRIPTION

B-AIR™ point of use filter set is designed for high efficient preparation of top quality breathing air. On request B-AIR™ filter set can be supplied with wall mounting brackets, pressure regulator and quick couplings.

#### WARNING!

**Breathing air filter set B-AIR is not declared as CO<sub>2</sub> and CO removal filter.** Despite that B-AIR comprises filter element which can reduce CO content.





TECHNICAL DATA									FILTER ELEMENTS			
Filter model	Pipe size	Flow rate <sup>2)</sup> at 7 bar(g), 20 °C		Dimensions [mm]				Mass kg	S Microfilter 0,01 µm	H <sup>2</sup> catalyst (hopcalite)	A <sup>2</sup> adsorption (act. carbon)	
		inch	Nm <sup>3</sup> /h	scfm	A	B	C		D			
B-AIR 0076	1/2"	78	46	187	88	20	60	3x0,47	07050 S	07050 H <sup>2</sup>	07050 A <sup>2</sup>	
B-AIR 0106	3/4"	120	70	257	88	20	80	3x0,6	14050 S	14050 H <sup>2</sup>	14050 A <sup>2</sup>	
B-AIR 0186	1"	198	116	263	125	32	100	3x1,57	12075 S	12075 H <sup>2</sup>	12075 A <sup>2</sup>	
B-AIR 0306	1"	335	197	363	125	32	120	3x2,2	22075 S	22075 H <sup>2</sup>	22075 A <sup>2</sup>	
B-AIR 0476	1 1/2"	510	300	461	125	32	140	3x2,8	32075 S	32075 H <sup>2</sup>	32075 A <sup>2</sup>	
B-AIR 0706	1 1/2"	780	459	640	125	32	160	3x3,9	50075 S	50075 H <sup>2</sup>	50075 A <sup>2</sup>	
									quality class - solids (ISO 8573-1)	1	1	1 <sup>1)</sup>
									quality class - oils (ISO 8573-1)	1	-	0/1
									residual oil content	<0,01 mg/m <sup>3</sup>	-	<0,005
									pressure drop - new element-dry [mbar / psi]	80 / 1,160	see spec.	see spec.
									pressure drop - new element-wet [mbar / psi]	190 / 2,756	-	-
									change filter element at pressure drop [mbar / psi]	3 months		
									filter media	borosilicate micro fibres	borosilicate micro fibres, hopcalite	borosilicate micro fibres, activated carbon
									min. operating temperature (°C / °F)	1,5 / 35	1,5 / 35	1,5 / 35
max. operating temperature (°C / °F)	45 / 113	45 / 113	45 / 113									

CORRECTION FACTORS															
Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

<sup>1)</sup> Valid if "S" filter cartridge is installed upstream.  
<sup>2)</sup> For optimum flow refer to technical data sheet