

# BREATHING AIR FILTER

## set B-AIR™

### DESCRIPTION

B-AIR™ point of use filter set has been specifically developed 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.



### APPLICATIONS (1)

- Breathing air

(1) B-AIR™ filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

### TECHNICAL SPECIFICATION

Operating temperature	1,5 - 45 °C	35 - 113 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi

### MATERIALS

Housing material	Aluminium
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	ABS
Sealing	NBR
Corrosion protection	Electrophoretic Coating (KTL)
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2
Endcaps	PA6
Filter media	Borosilicate micro fibres
Adsorption material	Activated carbon
Catalyst material	Hopcalite
Drainage media	Polyester
Bonding	Polyurethane
Support	Stainless Steel 1.4301

### DIFFERENTIAL PRESSURE DROP

To reach required pressure drop reduce the flow.

It is strongly recommended to reduce the flow so that pressure drop on B-AIR is below 770 mbar.

FILTER ELEMENT SIZE	DIFFERENTIAL PRESSURE [mbar] AT % OF NOMINAL FLOW			
	25%	50%	75%	100%
07050 (XS+H <sup>2</sup> +A <sup>2</sup> )	60	120	190	240
14050 (XS+H <sup>2</sup> +A <sup>2</sup> )	76	150	236	300
12075 (XS+H <sup>2</sup> +A <sup>2</sup> )	80	160	250	320
22075 (XS+H <sup>2</sup> +A <sup>2</sup> )	230	460	700	920*
32075 (XS+H <sup>2</sup> +A <sup>2</sup> )	183	770*	1166*	1540*
50075 (XS+H <sup>2</sup> +A <sup>2</sup> )	706	1410*	2 126*	2880*

**SIZES**

FILTER SET	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
			[Nm <sup>3</sup> /h]	[scfm]	A	B	C	D		
B-AIR 0076	1/2"	07050 (XS+H <sup>2</sup> +A <sup>2</sup> )	78	46	190	268	21	60	4,0	2,8
B-AIR 0106	3/4"	14050 (XS+H <sup>2</sup> +A <sup>2</sup> )	120	70	260	268	21	130	5,7	2,9
B-AIR 0186	1"	12075 (XS+H <sup>2</sup> +A <sup>2</sup> )	198	116	262	379	37	130	12,9	7,5
B-AIR 0306	1"	22075 (XS+H <sup>2</sup> +A <sup>2</sup> )	335	197	362	379	37	220	18,1	8,7
B-AIR 0476	1 1/2"	32075 (XS+H <sup>2</sup> +A <sup>2</sup> )	510	300	462	379	37	320	23,5	9,6
B-AIR 0706	1 1/2"	50075 (XS+H <sup>2</sup> +A <sup>2</sup> )	780	459	642	379	37	500	33,3	11,8

Flow capacity at 7 bar(g), 20°C

**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)**

B-AIR 0076 – B-AIR 0106	Category 1, Module A
B-AIR 0186 – B-AIR 0706	Category 2, Module A2

**IMPORTANT**

- Differential pressure on B-AIR should never exceed 3000 mbar, otherwise filter elements can be damaged.

**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>

**OPERATING PRESSURE**

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C <sub>OP</sub>	0,38	0,5	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


**MAINTENANCE**

Replace filter elements at least every 3 months or sooner if. Change the sealing when you disassemble filter housing. Once per year make a visual check of filter housing and make sure there is no visual damage.

**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.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 Reg. number: SI008842</p>	
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