



MEDICAL VACUUM FILTERS - M-VAC

DESCRIPTION

M-VAC filters have been specifically developed for medical vacuum applications. These filters are optimized for high-efficient removal of bacterial and other contamination (solids and liquids) from the suction side of vacuum pumps preventing damage to the pump and the potential biological infection of the surrounding environment. Removed liquids are collected in a transparent flask which can be removed for sterilization.

The efficiency of the installed filter elements exceeds the 0,005% penetration specified in HTM 2022 for infectious disease units, when tested in accordance with BS 3928.

(1) APPLICATION

- Operating theatres
- Maternity units
- Dental applications
- Pathology laboratories
- Pharmaceutical applications
- Mortuary and post-mortem rooms

⁽¹⁾M-VAC 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 - 65 °C	35 - 149 °F
Operating pressure	20-2000mbar(abs)	0,29 – 29 psi
Initial pressure drop	30mbar	0,45 psi

MATERIALS

Housing material	Aluminum
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	ABS
Sealing	NBR
Corrosion protection	Anodized
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2
Filter media	Borosilicate micro fibers,
Drainage media	Polyester
Support(inner-outer)	Stainless Steel 1.4301
Bonding	Polyurethane
Endcaps	PA6 with 30% glass fibers
Sealing	NBR

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PRODUCT DATA SHEET

M-VAC v1.04

SIZES

FILTER HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	Capacity ⁽²⁾		DIMENSIONS [mm]			VOLUME [l]	WEIGHT [kg]
			[Nm ³ /h]	[scfm]	A	B	D		
M-VAC 0056	3/8"	06050 VAC	7,5	4	187	88	60	0,47	0,7
M-VAC 0076	1/2"	07050 VAC	9,8	6	187	88	60	0,47	0,7
M-VAC 0106	3/4"	14050 VAC	15,0	9	257	88	80	0,6	0,8
M-VAC 0186	1"	12075 VAC	24,8	15	263	125	100	1,57	1,8
M-VAC 0306	1"	22075 VAC	41,9	25	363	125	120	2,2	2,5
M-VAC 0476	1 1/2"	32075 VAC	63,8	38	461	125	140	2,8	2,5
M-VAC 0706	1 1/2"	50075 VAC	97,5	57	640	125	160	3,9	3,2
M-VAC 0946	2"	51090 VAC	125,0	74	684	163	520	6,0	5,1
M-VAC 1506	2"	76090 VAC	187,5	110	935	163	770	8,2	7,1
M-VAC 1756	2 1/2"	76090 VAC	210,0	124	935	163	770	14,0	6,9
M-VAC 2006	3"	51140 VAC	270,0	159	795	240	630	20,0	12,9
M-VAC 2406	3"	75140 VAC	345,0	203	1000	240	780	24,4	14,0
M-VAC B240	DN80	76090 VAC(x1)	275,0	162	1170	450	650	39,0	61,0
M-VAC B300	DN100	76090 VAC(x2)	394,0	232	1340	560	650	103,0	115,0
M-VAC B450	DN125	76090 VAC(x3)	587,0	345	1360	560	650	104,0	123,0
M-VAC B600	DN150	76090 VAC(x4)	787,0	463	1425	620	650	133,0	151,0

⁽²⁾ Free air capacity at atmospheric pressure

PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE (Fluid group 2)

M-VAC 0056 - M-VAC 0476	Not required
M-VAC 0706 - M-VAC 1506	Category 1, Module A
M-VAC 1756 - M-VAC 2406	Category 2, Module H

CORRECTION FACTORS

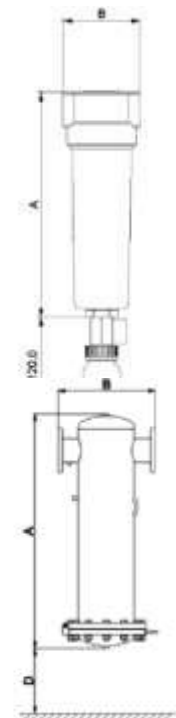
- To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor C₁.
- To select a filter to match system flow conditions, multiply the system flow by the correction factor C₂ that corresponds to vacuum in the pipe.

OPERATING PRESSURE

[bar] absolute	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
[psi] absolute	14,7	13	11,6	10,2	8,7	7,3	5,8	3,3	2,9	1,45	0,73	0,29
C ₁	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
C ₂	1	1,1	1,25	1,43	1,67	2	2,5	3,33	5	10	20	50

MAINTENANCE

Replace filter element every 6 months or follow the instructions for specific filter element. 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. Flask can be sterilised at 140°C.



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	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>
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