MEDICAL VACUUM FILTERS - M-VACFC

DESCRIPTION

M-VACFC filters have been specifically developed for medical vacuum applications. These filters are optimised 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 sterilisation.
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.

APPLICATIONS [1]

- 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

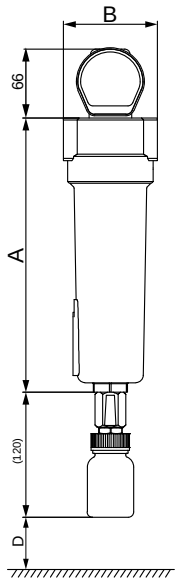
MATERIALS

Housing material	Aluminium
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 fibres,
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Polyurethane
Endcaps	PA6 with 30% glass fibres
Sealing	NBR

SIZES

FILTER HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	Capacity[2]		DIMENSIONS [mm]			VOLUME [l]	WEIGHT [kg]
			[Nm³/h]	[scfm]	A	B	D		
M-VACFC 0056	3/8"	06050 M-VAC	7,5	4	192	88	60	0,49	0,6
M-VACFC 0076	1/2"	07050 M-VAC	9,8	6	192	88	60	0,49	0,6
M-VACFC 0106	3/4"	14050 M-VAC	15,0	9	262	88	80	0,68	0,7
M-VACFC 0186	1"	12075 M-VAC	24,8	15	264	125	100	1,57	1,2
M-VACFC 0306	1"	22075 M-VAC	41,9	25	364	125	120	2,1	1,6
M-VACFC 0476	1 ½"	32075 M-VAC	63,8	38	464	125	140	2,7	1,9
M-VAFC 0706	1 ½"	50075 M-VAC	97,5	57	644	125	160	3,8	2,6
M-VACFC 0946	2	51090 M-VAC	125,0	74	696	164	520	6,1	5,7
M-VACFC 1506	2	76090 M-VAC	187,5	110	943	164	770	8,3	7,6
M-VACFC 1756	2 ½"	76090 M-VAC	210,0	124	943	164	770	8,4	7,3
M-VACFC 2006	3"	51140 M-VAC	270,0	159	801	242	630	16,7	14,1
M-VACFC 2406	3"	75140 M-VAC	345,0	203	998	242	780	21,3	16,7
M-VACFC B240	DN80	76090 M-VAC (x1)	275,0	162	1170	450	650	39	61
M-VACFC B300	DN100	76090 M-VAC (x2)	394,0	232	1340	560	650	103	115
M-VACFC B450	DN125	76090 M-VAC (x3)	587,0	345	1360	560	650	104	123
M-VACFC B600	DN150	76090 M-VAC (x4)	787,0	463	1425	620	650	133	151

[2]Free air capacity at atmospheric pressure



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 C_1.
- 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. 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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