



**AIR TREATMENT
MEDICAL VACUUM FILTER**

Products Catalog



DESCRIPTION

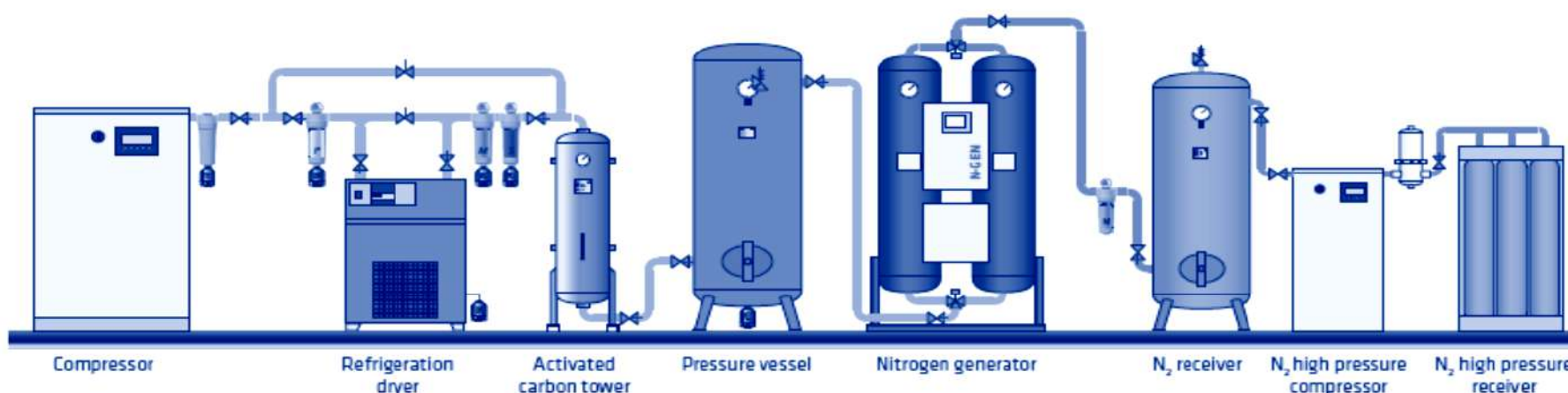
M-VAC filters are designed for medical vacuum applications. They are optimized for high efficient removal of bacterial and other contamination (solids and liquids) from the suction side of vacuum pumps preventing damage to the pump and the potential biological infection of the surrounding environment. 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.

Applications

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

Characteristics

operating pressure	10 to 1000 mbar
volume flow rate	5 to 1028 Nm ³ /h
connections	¼" to DN150
operating temperature range	1,5 to 65 °C
standard colour	RAL 9003





FILTER HOUSING MEDICAL VACUUM									
HOSING MODEL	PIPE SIZE	"Free air capacity at atmospheric pressure"		Dimensions				Mass	FILTER
		INCH	Nm ³ /h	scfm	A [mm]	B [mm]	C [mm]	D [mm]	KG
MVAP 06	1/8"	1.25	0.74	105	55	14	50	0.23	63528
MVAP 016	1/4"	2.25	1.33	125	55	14	70	0.24	165528
MVAP 026	1/4"	3.13	1.85	145	73	18	50	0.42	263844
MVAP 036	3/8"	3.75	2.21	145	73	18	50	0.42	363844
MVAP 046	1/4"	4.37	2.58	189	88	21	60	0.7	466050
MVAP 056	3/8"	7.5	4	187	88	25	60	0.7	566050
MVAP 076	1/2"	9.8	6	187	88	25	60	0.7	767050
MVAP 0106	3/4"	15	9	257	88	25	80	0.8	10614050
MVAP 0186	1"	24.8	15	263	125	39	100	1.8	18612075
MVAP 0306	1"	41.9	25	363	125	39	120	2.5	30622075
MVAP 0476	1 1/2"	63.8	38	461	125	39	140	2.5	47632075
MVAP 0706	1 1/2"	97.5	57	640	125	39	160	3.2	70650075
MVAP 0946	2"	125	74	684	163	50	520	5.1	94651090
MVAP 1506	2"	187.5	110	935	163	50	770	7.1	150676090
MVAP 1756	2 1/2"	210	124	935	163	50	770	6.9	175676090
MVAP 2006	3"	270	159	795	240	60	630	12.9	200651140
MVAP 2406	3"	345	203	1000	240	60	780	14	240675140
MVAP B240	DN80	275	162	1170	450	157	650	61	1x 24076090
MVAP B300	DN100	394	232	1340	560	208	650	115	2x 30076090
MVAP B450	DN125	587	345	1340	560	206	650	123	3x 45076090
MVAP B600	DN150	787	463	1425	620	241	650	178	4x 60076090

CORRECTION FACTORS										
Operating pressure [bar]	3	5	7	10	13	16	20	30	40	50
Operating pressure [psi]	44	72	100	145	189	232	290	435	580	725
Correction factor	0.5	0.75	1	1.38	1.75	2.13	2.63	3.88	5.13	6.38

Technical notes

1. Direction of air flow is outside to in through the filter element.
2. Filtration Performance exceeds requirements of HTM2022. MV filter efficiency tested with a bacterial challenge test and BS3928 sodium flame test.
3. Low cost of ownership
4. Multiple port sizes for a given flow rate provides increased flexibility during installation
5. Corrosion protected
6. Internally and externally epoxy coated
7. Pop up indicators are fitted to model MVAP 06 as standard. Differential pressure gauges are fitted to models MVAP2006 to MVAP-DN150 as standard.
8. Manual drain valves are fitted to models MVAP 06 t MVAP 2406 to. Sterilizable glass drain flasks are supplied as standard, 100ml for models MVAP06 to MVAP 0306 and 150ml for MVAP 0186 to MVAP 1756 and MVAP 2406 for 250ml.
9. Pressure for leak testing purposes MUST be limited to 7 barg and only applied with the drain valve and drain flask REMOVED.
10. Filter elements should be changed every 6 months / 1000 hours (whichever comes first).

SPECIFICATION	MV	
Penetration to BS 3928	< 0.005%	-
Maximum temperature	100°C	-
Pressure loss-clean	30 mbar	0.44 psi
Pressure loss-change element	100 mbar	1.5 psi
Maximum working pressure	7 barg	100 psig
Maximum working vacuum	Full vacuum	-
Element end cap colour	black	-

Nitrogen basics

- ✓ Inert,
- ✓ Colorless,
- ✓ Odorless,
- ✓ Tasteless Gas
- ✓ Nitrogen does not enter in chemical reactions
- ✓ Nitrogen prevents oxygen access

Applications

- ✓ Blanketing of Chemicals
- ✓ Pharmaceuticals
- ✓ Gas Assisted Injection Moulding (GAIM)
- ✓ Heat Treatment of Ferrous & Non-Ferrous Metals
- ✓ Inerting of Flammable Liquids
- ✓ Laser Cutting
- ✓ Prevention of Dust Explosions
- ✓ Re-flow and Wave Soldering of PCBs
- ✓ UV-Curing of Coatings
- ✓ Food processing

Processes

- ✓ Prevention of oxidation of metals, polymers and chemicals,
- ✓ For bacteriological growth (foodstuffs & beverage)
- ✓ Reduces the risk of combustion and explosion (chemicals, reactions, processes)
- Source of Nitrogen
- ✓ LIN = Liquid Nitrogen,
- ✓ GAN = Gaseous Nitrogen

High quality valves

- ✓ Our generators are equipped with long life angled seated valves which are important due to high switch count. High flow valves have wide range of piston type actuators for maximum performance at minimum pressure.

AIR TREATMENT HIGH PRESSURE 50 BAR MEDICAL VACUUM FILTER



Products Catalog

Applications

- general industrial applications
- automotive
- electronics
- food and beverage
- chemical
- petrochemical
- PET
- paint

Feature

operating pressure	50 bars
volume flow rate	71 to 2760 Nm ³ /h
connections	1/2" to 3"
operating temp. range	1,5 to 65 °C
standard color	RAL 5012



A unique range of aluminum alloy high pressure filters with flow capacities of 42 SCFM (71 Nm³/hr) to 1620 SCFM (2760 Nm³/hr) and operating pressures of 50 barg (725 psig). Our 50 barg Alloy High Pressure range includes 9 models which are available in BSP and NPT threaded connections from 1/2" to 3".

The range utilizes custom engineered filtration media to deliver exceptional filtration with minimal pressure drop, offering excellent value for money and low total cost of ownership.

All models feature the SUN IN Filtration push-fit filter element design with double 'O' ring seals for extra security against contamination by-pass. These models are available in all standard grades. Full corrosion protection is given by use of the SUN IN E-Coat™ both inside and out followed by a tough polyester powder coating on the outside.

Quality control of these CE marked products includes a hydrostatic test certificate and serial number for complete traceability.





HOUSING PRESSURE MEDICAL VACUUM FILTER HOUSING 50 bar										
HOSING MODEL	PIPE SIZE	"MAX. Oper. Press"	"Flow rate at 7 bar(g), 20 °C		Dimensions				Mass	FILTER
			Nm ³ /h	scfm	A [mm]	B [mm]	C [mm]	D [mm]		
50 bars	INCH	Bar / Psi	Nm³/h	scfm	A [mm]	B [mm]	C [mm]	D [mm]	KG	MODEL
MVHF 007	1/2"	50/725	71	42	250	110	30	80	2.1	76060
MVHF 010	3/4"	50/725	112	66	250	110	30	90	2.1	107060
MVHF 018	1"	50/725	204	120	250	110	30	140	2.1	1812060
MVHF 047	1 1/2"	50/725	282	166	535	160	45	260	9.5	4722090
MVHF 070	1 1/2"	50/725	400	235	535	160	45	360	9.5	7032090
MVHF 094	2"	50/725	494	291	715	160	45	540	12.2	9450090
MVHF 150	2"	50/725	799	470	715	160	45	550	12.2	15051090
MVHF 200	3"	50/725	2160	1270	862	198	70	620	30.4	20051140
MVHF 240	3"	50/725	2760	1620	1010	198	70	780	34.9	14075140

CORRECTION FACTORS											
Operating pressure [bar]	3	5	7	10	13	16	20	30	40	50	
Operating pressure [psi]	44	72	100	145	189	232	290	435	580	725	
Correction factor	0.5	0.75	1	1.38	1.75	2.13	2.63	3.88	5.13	6.38	



MV Medical Vacuum Filters We can produce as per customer Request nonstandard flow rate. Connect us by email.