



domnick hunter

OIL-X EVOLUTION

High Efficiency Medical Vacuum Filters

OIL-X EVOLUTION MV Medical Vacuum Filters are designed for critical applications involving the removal of liquid, solid and bacterial contamination from the suction side of vacuum pump systems, preventing damage to the pump and the potential biological infection of the surrounding environment.

The vacuum removal systems found throughout hospitals in area's such as general wards, operating theaters, dental departments, pathology departments, pharmacy laboratories, and mortuary / post mortem rooms will usually be connected to either a large centralized vacuum plant or a smaller, localized vacuum pump or network.

domnick hunter MV Medical Vacuum filters can be installed to protect these systems no matter where they are located.



Benefits

- Filtration Performance exceeds requirements of HTM2022. MV Filter efficiency tested with a bacterial challenge test and BS3928 sodium flame test
- Filtration performance independently verified by Lloyds Register
- Low cost of ownership
- Airflow management system and deep pleat element technology provides minimal pressure losses
- Deep pleat element technology also provides higher dirt holding capacity when compared to traditional filter elements
- Multiple port sizes for a given flow rate provides increased flexibility during installation
- Corrosion protected
- Internally and externally epoxy coated
- Small, compact & lightweight
- Easily removable, sterilisable drain flask
- Quick, easy maintenance
- 10 Year Housing Guarantee
- Optional DP monitor



INTERNATIONAL APPROVALS



ASME VIII National Board



CRN

AS1210



pneurop



Druckluft
effizient

Product Selection & Technical Data

Stated flows are for operation at 1 bar (abs) (750 Torr) with reference to 68°F (20°C), 14.5 psi (a) (1 bar (a)), 0% relative water vapor pressure. Filter efficiency: Exceeds the <0.005% penetration requirements of medical gas systems : design, installation and verification, Health Technical Memorandum 2022, for bacteria removal filters, achieving <0.0001% penetration when tested to BS3928 : 1969. Bacterial removal efficiency with Brevundimonas diminuta >99.9999998%.

Model	Pipe Size	Free Air capacity at Atmospheric				Replacement Element Kit	Max Operating Vacuum		Max Recommended Operating Temperature		Min Recommended Operating Temperature	
		cfm	L/s	L/min	m³/hr		Torr	Ins Hg (abs)				
MV010A	¼"	2	1	60	3.6	010MV	1	0.04	212°F	100°C	35°F	1.5°C
MV010B	⅜"	2	1	60	3.6	010MV	1	0.04	212°F	100°C	35°F	1.5°C
MV010C	½"	2	1	60	3.6	010MV	1	0.04	212°F	100°C	35°F	1.5°C
MV015B	⅜"	6	3	160	9.6	015MV	1	0.04	212°F	100°C	35°F	1.5°C
MV015C	½"	6	3	160	9.6	015MV	1	0.04	212°F	100°C	35°F	1.5°C
MV020C	½"	9	4	250	15	020MV	1	0.04	212°F	100°C	35°F	1.5°C
MV020D	¾"	9	4	250	15	020MV	1	0.04	212°F	100°C	35°F	1.5°C
MV020E	1"	9	4	250	15	020MV	1	0.04	212°F	100°C	35°F	1.5°C
MV025D	¾"	16	8	450	27	025MV	1	0.04	212°F	100°C	35°F	1.5°C
MV025E	1"	16	8	450	27	025MV	1	0.04	212°F	100°C	35°F	1.5°C
MV030E	1"	32	15	900	54	030MV	1	0.04	212°F	100°C	35°F	1.5°C
MV030F	1 ¼"	32	15	900	54	030MV	1	0.04	212°F	100°C	35°F	1.5°C
MV030G	1 ½"	32	15	900	54	030MV	1	0.04	212°F	100°C	35°F	1.5°C
MV035F	1 ¼"	53	25	1500	90	035MV	1	0.04	212°F	100°C	35°F	1.5°C
MV035G	1 ½"	53	25	1500	90	035MV	1	0.04	212°F	100°C	35°F	1.5°C
MV040G	1 ½"	71	33	2000	120	040MV	1	0.04	212°F	100°C	35°F	1.5°C
MV040H	2"	71	33	2000	120	040MV	1	0.04	212°F	100°C	35°F	1.5°C
MV045H	2"	88	42	2500	150	045MV	1	0.04	212°F	100°C	35°F	1.5°C
MV050I	2 ½"	124	58	3500	210	050MV	1	0.04	212°F	100°C	35°F	1.5°C
MV050J	3"	124	58	3500	210	050MV	1	0.04	212°F	100°C	35°F	1.5°C
MV055I	2 ½"	176	83	5000	300	055MV	1	0.04	212°F	100°C	35°F	1.5°C
MV055J	3"	176	83	5000	300	055MV	1	0.04	212°F	100°C	35°F	1.5°C

Product Coding and Selection

GRADE	MODEL	PIPE SIZE	CONNECTION TYPE	DRAIN OPTION	MONITOR
MV	3 digit code shown above	Letter denotes pipe size	B = BSPT N = NPT	V = Vacuum Flask	X = None I = Differential Pressure Monitor
MV	010	A	N	V	X

Filter Selection

(1) To find the capacity of an MV filter at a known vacuum condition, multiply the filter Free Air Capacity in the table shown by correction factor C1.

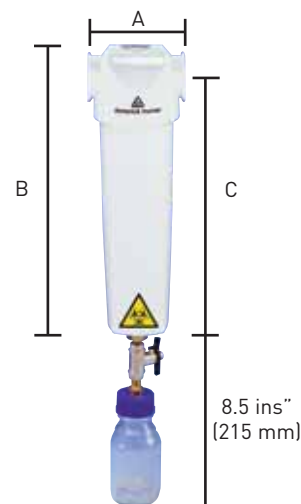
(2) To select a filter to match system flow conditions, multiply the system flow by the correction factor C2 that corresponds to vacuum in the pipe.

Vacuum Filter Conversion Factors					
Vacuum				C1	C2
mbar (abs)	Torr	mm Hg (abs)	ins Hg (abs)		
1000	750	750	29.5	1.0	1.0
900	675	675	26.6	0.9	1.1
800	600	600	23.6	0.8	1.3
700	525	525	20.7	0.7	1.4
600	450	450	17.7	0.6	1.7
500	375	375	14.8	0.5	2.0
400	300	300	11.8	0.4	2.5
300	225	225	8.9	0.3	3.3
200	150	150	5.9	0.2	5.0
100	75	75	3.0	0.1	10.0

Weights and Dimensions

Models MV015 - MV055

Model	Pipe Size	A		B		C		Weight	
		ins	mm	ins	mm	ins	mm	lbs	kg
MV010A	¼"	3.0	76	7.2	181.5	6.0	153	0.88	0.4
MV010B	⅜"	3.0	76	7.2	181.5	6.0	153	0.88	0.4
MV010C	½"	3.0	76	7.2	181.5	6.0	153	0.88	0.4
MV015B	⅜"	3.8	97.5	9.3	235	7.9	201	2.2	1
MV015C	½"	3.8	97.5	9.3	235	7.9	201	2.2	1
MV020C	½"	3.8	97.5	9.3	235	7.9	201	2.2	1
MV020D	¾"	3.8	97.5	9.3	235	7.9	201	2.2	1
MV020E	1"	3.8	97.5	9.3	235	7.9	201	2.2	1
MV025D	¾"	5.1	129	10.8	275	9.2	232.5	4.84	2.2
MV025E	1"	5.1	129	10.8	275	9.2	232.5	4.84	2.2
MV030E	1"	5.1	129	14.3	364.5	12.7	322	5.72	2.6
MV030F	1 ¼"	5.1	129	14.3	364.5	12.7	322	5.72	2.6
MV030G	1 ½"	5.1	129	14.3	364.5	12.7	322	5.72	2.6
MV035F	1 ¼"	6.7	170	17.0	432.5	15.1	382.5	9.9	4.5
MV035G	1 ½"	6.7	170	17.0	432.5	15.1	382.5	9.9	4.5
MV040G	1 ½"	6.7	170	20.6	524.5	18.7	474.5	11.55	5.25
MV040H	2"	6.7	170	20.6	524.5	18.7	474.5	11.55	5.25
MV045H	2"	6.7	170	20.6	524.5	18.7	474.5	11.55	5.25
MV050I	2 ½"	8.1	205	25.3	641.5	22.9	581.5	22	10
MV050J	3"	8.1	205	25.3	641.5	22.9	581.5	22	10
MV055I	2 ½"	8.1	205	32.8	832	30.4	772	26.4	12
MV055J	3"	8.1	205	32.8	832	30.4	772	26.4	12



dh and domnick hunter are registered trademarks of Parker Hannifin Ltd.

Parker Hannifin Ltd has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact your domnick hunter sales representative for detailed information and advice on a products suitability for specific applications. All products are sold subject to the Company's standard conditions of sale.

© 2007 Parker-Hannifin Corporation
Publication Reference: 4411 01/07 Rev. 007 USA 08/07



domnick hunter

Parker Hannifin
domnick hunter division
North Carolina, USA
Tel: (704) 921-9303
Toll Free: 1-800-345-8462
Telefax: (704) 921-1960
domnick hunter Canada
Ontario, Canada
Tel: (905) 820-7146
Toll Free: 1-888-342-2623
Telefax: (905) 820-5463

filtration purification separation

a division of Parker Hannifin Corporation

www.comoso.com

