



# domnick hunter

## MEDICAL VACUUM FILTERS

Complies fully  
with HTM 2022

### Applications:

The **NEW domnick hunter** Medical Vacuum filters are designed for critical applications involving the removal of bacterial and other contamination from the suction side of vacuum pumps, preventing infection of the pump and the atmosphere. The main application areas are in hospitals where a vacuum source is used for suction in **wards, operating theatres, maternity units, dental departments, pathology laboratories, pharmacy laboratories, mortuary and postmortem rooms.**

All **domnick hunter** Medical Vacuum Filters can be safely used for any of the above, and also **any infectious disease area** as standard.

### Special Features:

- Lightweight cast aluminium housings from ½" to 3" pipesize with female threaded BSPP or NPT connections.
- Internally protected against corrosion.
- Externally and internally epoxy coated.
- Design and construction is Lloyds approved.
- Easily changed filter element.
- Direct mounting differential pressure indicator fitted.

### Standard Features:

- **NEW IMPROVED** domnick hunter high-efficiency filter element.
- Isolation valve.
- Easily removable sterilisable drain flask.
- 99.9999% Efficient



### Benefits:

- Complete bacterial removal.
- Meets D.H.S.S. requirements (refer to HTM 2022 for guidance).

## Installation and Operation

It is recommended that **domnick hunter** Medical Vacuum Filters are installed in parallel in the plant room immediately prior to the vacuum reservoir. This facilitates maintenance of one unit without interrupting the vacuum supply. Filters should be installed vertically with the sterilisable drain flask at the bottom, and with strict observance of direction of flow (direction arrow marked on filter). Flow through the filter element is outside to in, passing first through the coarse outer pre-filter and then through the micro fibre media. Liquids which pass down the vacuum line are separated by the filter element and collected in the drain flask. The drain flask should be inspected daily, and if any liquid is present, the flask must be valved off, cleaned and autoclaved before replacement.

Filter elements must be replaced every six months, or when the indicator shows a high differential pressure (red zone) due to loss of vacuum, whichever is the earlier. Replaced filter elements must be treated as bio-hazards and disposed of accordingly.

## Improved performance

All **domnick hunter** Medical Vacuum Filters meet the requirements of the D.H.S.S. (see HTM 2022 for guidance).

High efficiency filter elements are of pleated construction giving a high surface area and long operational life. Improved efficiency exceeds the 0.005% penetration specified in HTM 2022 for infectious disease units - ie. complete bacterial removal.

## Technical Specifications

**Maximum Operating Temperature:**  
65°C (150°F)

**Initial Pressure Differential at Rated Flow:**  
50mm Hg (2" Hg)

Complete bacteria removal to 0.0001% penetration when tested to BS.3928 efficiency, exceeding the requirements of the D.H.S.S. for infectious disease units (HTM 2022).

MODEL NO.	DIMENSIONS mm (ins)				
	A	B	C	D	E
MV15G	194 (7.6)	89 (3.5)	42 (1.6)	130 (5.1)	99 (3.9)
MV20G	194 (7.6)	89 (3.5)	42 (1.6)	130 (5.1)	99 (3.9)
MV25G	251 (9.9)	120 (4.7)	58 (2.3)	172 (6.8)	99 (3.9)
MV32G	351 (13.8)	120 (4.7)	58 (2.3)	272 (10.7)	99 (3.9)
MV40G	406 (16.0)	160 (6.3)	67 (2.6)	320 (12.6)	99 (3.9)
MV50G	406 (16.0)	160 (6.3)	67 (2.6)	320 (12.6)	99 (3.9)
MV80G	844 (33.2)	202 (7.9)	81 (3.2)	625 (24.6)	99 (3.9)

Filter Code No.	Pipe Connection	Free Air Capacity at Atmospheric		Rarified Air Capacity at 50mm Hg vacuum		Filter Element Code No.
		NL/min	cfm	NL/min	cfm	
MV15G	G $\frac{1}{2}$	200	7	600	21	K025PL
MV20G	G $\frac{3}{4}$	270	10	810	28	K025PL
MV25G	G1	550	19	1650	58	K040PL
MV32G	G1 $\frac{1}{4}$	1200	42	3600	126	K085PL
MV40G	G1 $\frac{1}{2}$	1850	65	5550	195	K195PL
MV50G	G2	2750	96	8250	288	K195PL
MV80G	G3	4200	147	12600	440	K400PL

**LARGER SIZES ARE AVAILABLE ON REQUEST**

For flows of other rarified conditions than stated above, apply the correction factor shown below to the free air capacity.

Degree of vacuum	mm Hg	0	380	508	572	610	635	648	660	673	686
		ins Hg	0	15	20	22.5	24	25	25.5	26	26.5
Correction factor		1	2	3	4	5	6	7	8	9	10

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