

## Vacuum Filter



Certified  
ISO 13485:2016

Certified  
ISO 14001 & 45001

Certified  
ASME U/U2

**NEW** | DIMENSIONS  
SOLUTIONS

### MODELS: SF 001 DV to SF 030 DV

In hospitals, Vacuum system is used in surgery and other medical function to provide suction. By this suction, doctors clear the airway of blood, saliva, vomit, or other secretions. These secretions are considered biohazard since it may contain bacterial contaminants and should be separated methodically to ensure safe exhaust of air to atmosphere. A Vacuum filter installed at the suction side of vacuum pump will separate these bacterial contaminants and ensures the safety of healthcare facility.



Pleated Technology  
Multi-fold Non-Woven  
Filter Media Low  
differential pressure High  
dirt holding capacity



Caring environment even  
during Maintenance  
Easily removable  
sterilisable drain flask  
with double  
isolation valves



Differential Pressure  
Indicator Offers Real time  
monitoring of condition of  
filter elements

### FEATURES & BENEFITS:

- Summit Medical Vacuum Filter meets the requirements of global medical gas pipeline systems standards such as ISO 7396-1, HTM 02-01, NFPA 99 and AS 2896.
- High Efficiency Medical Grade Pleated Filter Element offers higher dust holding capacity and lowest pressure drop throughout its service life, resulting in much higher active vacuum at application.
- Housing is made of Anodized Aluminum alloy. Outer surface is coated with Epoxy based paint/powder, thus is protected from corrosion, extends the service life up to 10 years.
- Pressure differential indicator offers Real time monitoring of the condition of filter element.
- Double Isolation valve assures Zero leakage of hazardous materials during maintenance.
- 250ml glass bottle is provided as contaminant collector, Holds large volume of liquid contaminants, thus facilitates surgeon in critical operation for a longer duration.



# MEDICAL VACUUM FILTERS

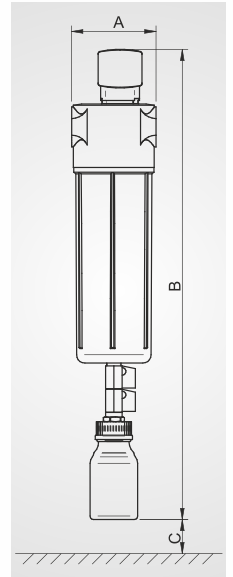
As per HTM 02-01, for vacuum systems, the minimum vacuum should not fall below 300 mm Hg at the front of each terminal unit at a design flow of 40 L/min. The capacity of the vacuum pump should be specified in terms of free air aspirated (FAA) in L/min when the pump is operating at a vacuum of 475 mm Hg (63 kPa) and at 450 mm Hg (60 kPa) at the plant pipeline connection. The pressure drop across a 'Clean Medical vacuum Filter' at the system design flow should not meet 25 mm Hg (3 kPa) at a vacuum of 475 mm Hg (63 kPa).

Summits medical vacuum filters are designed for removal of biohazards including solid, liquid & bacterial contaminants from the vacuum systems. Removed liquids are collected in a transparent bottle, which is autoclavable to the maximum temperature of 140°C. The Filtration efficiency of Summits filter element exceeds the requirement of 99.995% demanded by HTM 02-01.

Complying to the standard practice, Summits rated its Medical vacuum filters at 25 mm Hg of differential pressure.

## TECHNICAL DATA

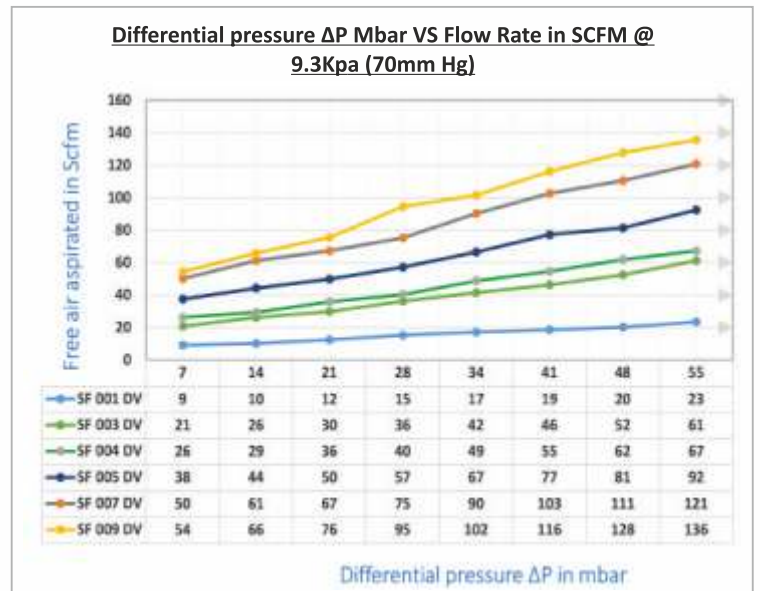
Filter Model	Pipe conn. Inches BSPP F	Maximum rated air flow at suction pressure of 1 bar (a)			Maximum rated air flow at suction pressure of 475mm Hg (63Kpa) (633.28mbar) Vacuum						Housing dimensions in mm			Weight Kg
		Free Air Aspirated (FAA)			Free Air Aspirated (FAA)			Rarified air flow			A	B	C	
		Scfm	Nm³/hr	NL/min	Scfm	Nm³/hr	NL/min	Cfm	Nm³/hr	NL/min				
SF 001 DV	1"	14	24	396	6	10	170	16	27	453	122	579	275	3.4
SF 003 DV	1 1/2"	30	51	850	14	23	390	37	62	1036	122	693	450	4.2
SF 004 DV	1 1/2"	40	68	1133	16	27	453	43	72	1204	122	750	450	5.2
SF 005 DV	1 1/2"	50	85	1416	23	39	645	61	103	1717	158	839	690	5.7
SF 007 DV	2"	70	119	1982	30	52	862	81	138	2294	158	973	690	10.06
SF 009 DV	2"	90	153	2549	38	65	1088	102	174	2894	158	973	765	10.08
SF 030 DV	3"	300	510	8495	137	234	3894	366	621	10357	230	1047	765	19.7



Note : Rated flows are stated at HTM 02-01 conditions, For flows at other operating vacuum pressure, please consult factory.

## TECHNICAL SPECIFICATIONS :

- Maximum operating vacuum - Full vacuum
- Maximum operating pressure - 1.0 bar g
- Operating temperature - 1.5°C to 80°C
- Particle removal - ≤0.3 micron
- Element clean pressure drop - 25mm of Hg
- Particle removal efficiency - 99.995%
- (HTM 02-01)
- specifies >99.995%
- Housing material - Aluminium alloy
- Element filter media - Ultra-fiber of Borosilicate
- Seal material - Nitrile / FKM
- Drain flask volume - 250ml



Manufactured and marketed by  
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