



PORTABLE FILTRATION CART

Item code: PIPFC70M or PIPFC90M

One Portable Filtration Unit – Endless Applications

The Pall Filtration Unit (PFU) is a cost effective pump, motor and filter set, designed for off-line control of contamination in hydraulic and lubrication fluids. Suited for Diesel (Gasoil) as well.

This compact, simple to operate unit uses Ultipleat® SRT high performance Bx(c)>2000 filtration to provide enhanced fluid system reliability, increased operational efficiency and extended fluid service life at almost any location / operation within your site.

- Quick and simple to install and operate.
- Compact, lightweight and quiet.
- Long filter element service life.

COMPONENTS:

PALL UR310 ATHALON FILTRATION HOUSING c/w:

Internal 4.5 bar bypass valve
Mini mesh sampling point
PALL RCA 219 DP indicator

12 Micron Beta 2000 ultipleat filter element (UE310AS13Z)

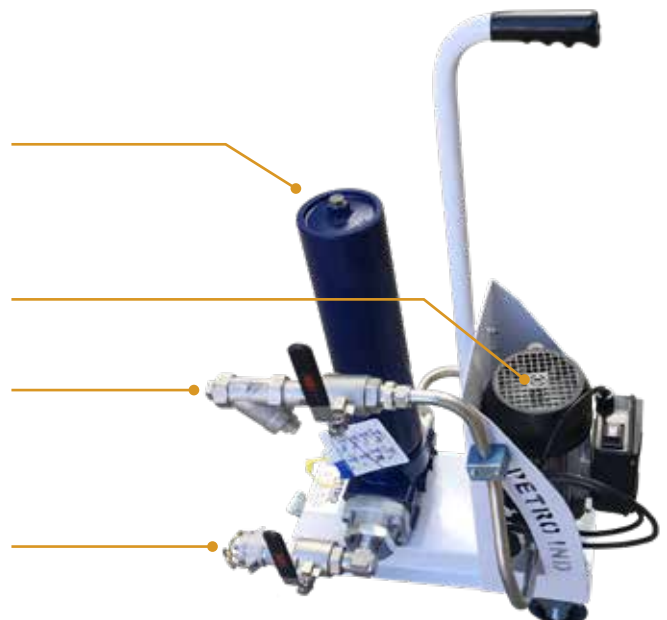
VISCOMAT ELECTRIC VANE PUMP - 70M or 90M

INLET:

Swagelok 316 Stainless Steel Strainer with Isolation Valve & 1" BSP Male Camlock Fitting + Dust Cap

OUTLET:

Swagelok 316 Stainless Steel with Isolation Valve & 1" BSP Male Camlock Fitting + Dust Cap



BETA_{x(c)} ≥ 2000 RATED STRESS-RESISTANT FILTERS:

Athalon filters represent another industry first for lube and hydraulic filters with an unequalled Beta_{x(c)} ≥ 2000 removal efficiency rating. This enhanced performance ensures equipment protection and extends component and fluid life.

Beta_{x(c)} ≥ 2000 rated Stress Resistant media Technology in a Laid-Over Pleat configuration.

Inert, inorganic fibers securely bonded in a fixed, tapered pore structure with increased resistance to system stresses such as cyclic flow and dirt loading.

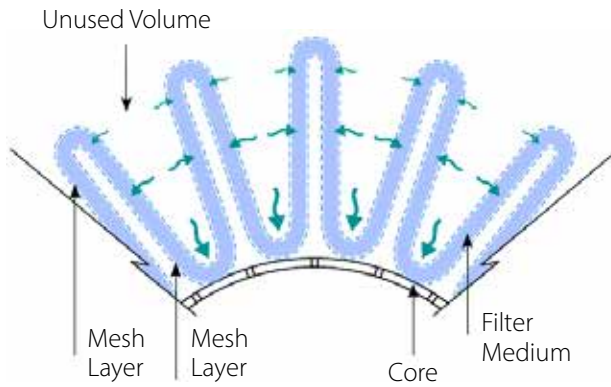
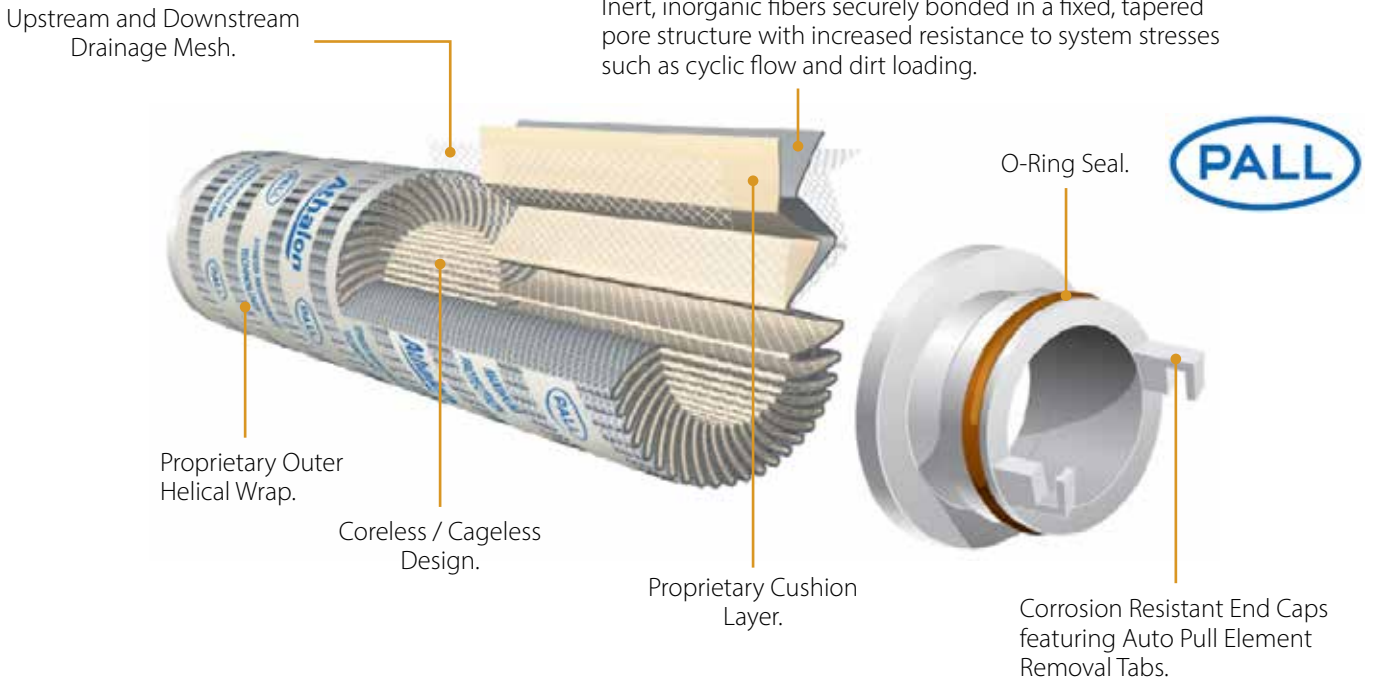


Figure 1. Conventional pleated filter element construction, showing Non-uniform flow distribution in a traditional fan-pleat filter.

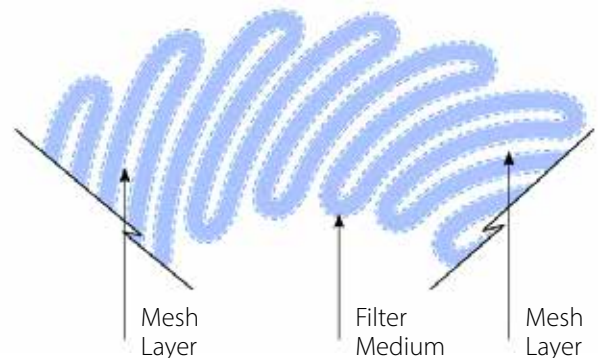
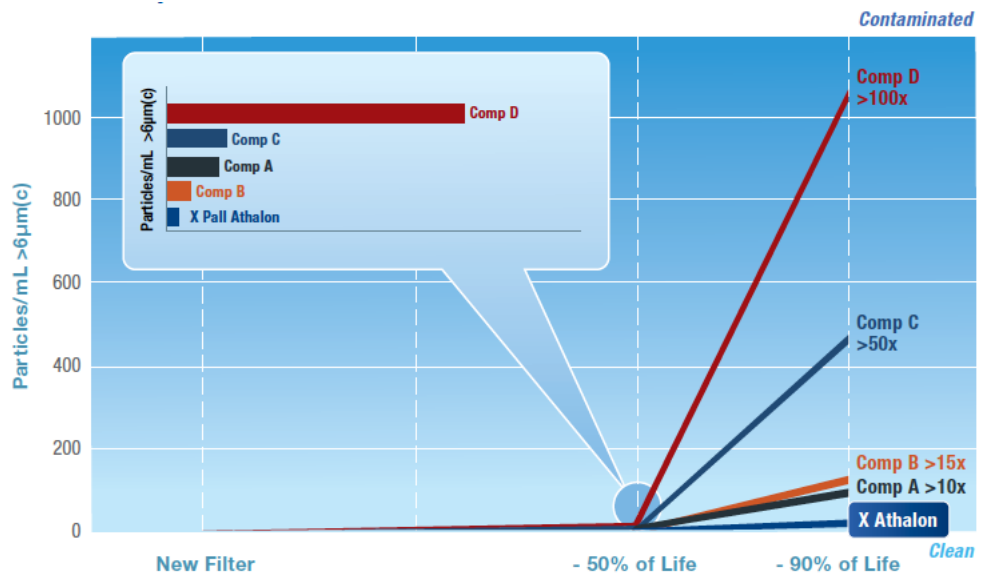


Figure 2. Ultipleat filter element construction, showing uniform flow distribution.

A critical measure of a filter's performance is its ability to sustain fluid cleanliness throughout its service life.

This graph compares an Athalon 7µm(c) rated filter to competitors' products with equivalent ratings.

While all filters provide good fluid cleanliness early in service life, only Athalon filters produce sustained fluid cleanliness over the life of the filter.



VISCOMAT PUMP OPTIONS:

Viscomat 70M Electrical Vane pump

- For fluids up to 500 cSt.
- 25 L/min flow rate @ 6 bar (85 Psi).
- Inlet / Outlet: 1" BSP.
- Adjustable Bypass valve.

Pump motor:

- 230 VAC , 50 Hz
- 1200 Watt
- 5.5 Amp
- Rpm 1470



Viscomat 90M Electrical Vane pump

- For fluids up to 500 cSt.
- 50 L/min flow rate @ 5 bar (71 Psi).
- Inlet / Outlet: 1" BSP.

Pump motor:

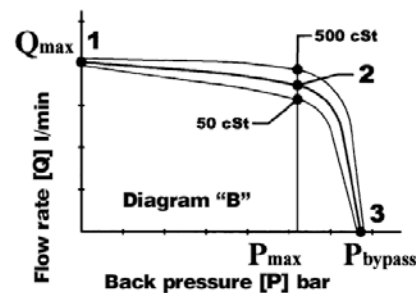
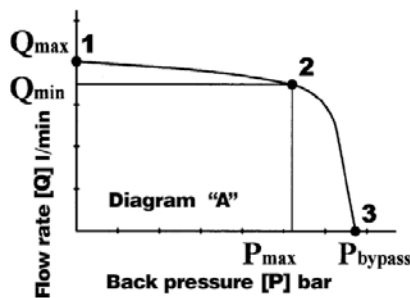
- 230 VAC , 50 Hz
- 1350 Watt
- 6,2 Amp
- Rpm 1400



PUMP PERFORMANCE SPECIFICATIONS:

The performance data provided for the various pump models of the VISCOMAT family can be illustrated with curves that show the relationship between the flow rate supplied and the back pressure that the pump

must overcome. Diagram "A" illustrates a flow rate/ back pressure curve typical of all of the pumps in the VISCOMAT family.



VISCOMAT pumps can pump oils of very different viscosities, within the limits indicated in the TECHNICAL SPECIFICATIONS, without requiring any adjustment of the by-pass. The characteristic flow rate/back pressure curve illustrated in diagram "A" relates to functioning with oil of a viscosity equal to approximately 110cSt (comparable, for example, to oil SAE W80 at a temperature of 22°C). As the viscosity of the oil varies, the variation in the pump's performance will be more

noticeable the greater the back pressure against which the pump is working. Diagram "B" illustrates how the characteristic curve changes in the case of the maximum and minimum viscosities (respectively equal to 50 cSt and 500 cSt), showing that, at the maximum working back pressure (Pmax), the flow rate Q min suffers a variation of between 10% and 15% with respect to the value relative to a viscosity of 110 cSt.

Pump Model	By Pass Condition		Max. Back Pressure Condition		Max. Flow Rate Condition	
	D (l/min)	P (bar)	D (l/min)	P (bar)	D (l/min)	P (bar)
Viscomat 70 M	0	7,5	26	6	30	1
Viscomat 90 T	0	6	50	5	55	1
Viscomat 70 100/50	0	6,5	26	4,5	30	1
Viscomat 70 100/60	0	5	26	3,5	36	1
Viscomat 70 110/50	0	7,5	26	6	30	1
Viscomat 70 110/60	0	5	26	3,5	36	1
Viscomat 90 230/50	0	6,5	35	2,5	40	1
Viscomat 90 230/60	0	7,5	40	3	47	1