

Vibro™-L

a unique 0,35 m² filtration device for micro- and ultrafiltration

The perfect benchtop filtration solution for process development and small-scale filtration applications. Low fouling continues filtration where the filter is kept clean by vibration shear.

The retentate chamber and the membrane element vibrates horizontally while the patented Vibro™ technology makes the media inside the retentate chamber stationary. The relative vibration of media and membrane creates turbulence on the membrane surface and thereby keeps the fouling layer at a minimum.

The clear plastic of the retentate chamber gives excellent visibility of the membrane during operation and cleaning. A groundbreaking feature that makes it possible to visually follow fouling build-up and membrane cleaning processes.

The Vibro™-L is exceptional for gaining insight into filtration processes, for selecting the right membranes and for filtering or separating almost any media with continuous membrane filtration in a laboratory or even a small production set-up. The ability to work with small samples makes it the perfect tool for process development in biotech, pharma, food etc.

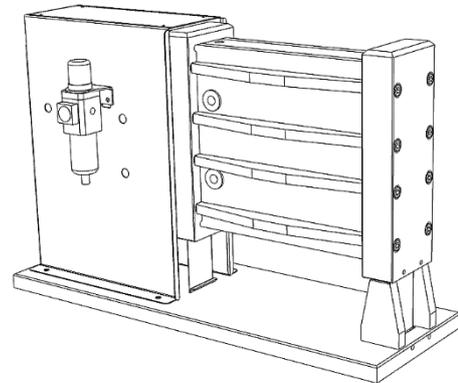
The Vibro™-L can be operated as continues filtration with a feed pump or as batch filtration where no feed pump is necessary. This means that valuable samples can be filtered extremely gentle without any damage from pump shear.

The Vibro™-I systems are easy to operate and can be set-up to run any MF and UF applications automatically including washing cycles etc.

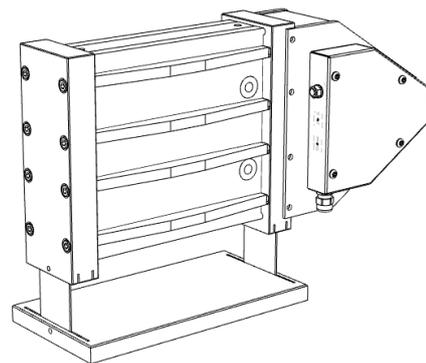
Due to the open design of the 0,35 m² Free Flow Plate™ membrane element, the Vibro™-L can handle very difficult samples with high viscosity, high mass loadings and even high particulates. It is possible to attach a homogenization pump to the retentate chamber if you work with difficult feeds.

All media contacting parts are in durable polymeric materials or stainless steel. The Vibro™-L can conform to FDA materials and sanitary standards if required.

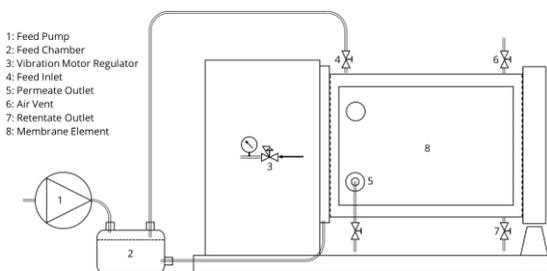
The vibration motor in the Vibro™-L can either be pneumatic or electrical driven.



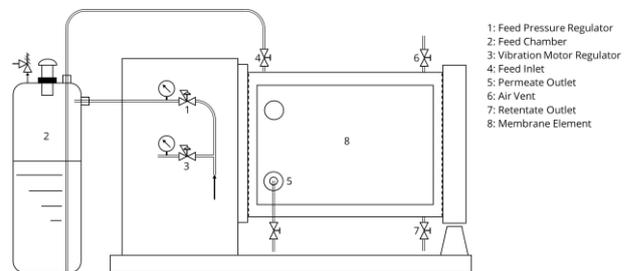
Vibro™-LP: pneumatically driven vibration and options in feed system



Vibro™-LE: Electric motor driven vibration and options in feed system

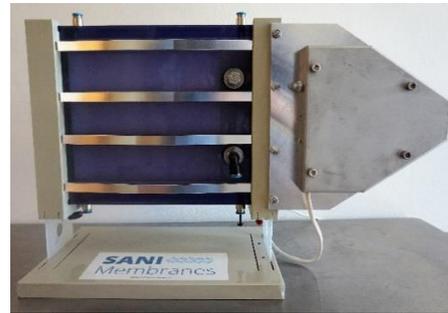


Continues filtration set-up with a low shear feed pump



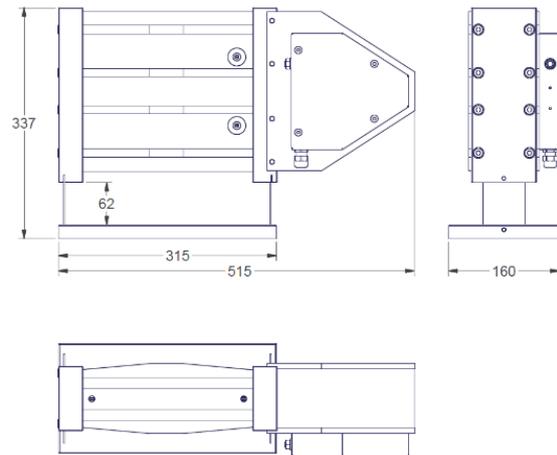
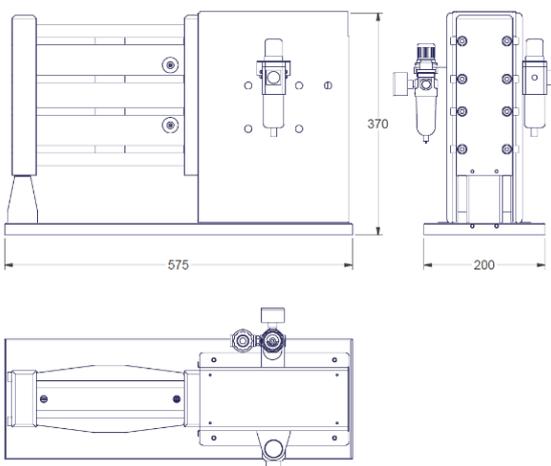
Batch filtration set-up with no feed pump – The gentlest filtration possible

Technical Data Vibro™-LP and Vibro™-LE



Vibro™-LP Data	
Weight	10 kg
Dimensions (L x W x H)	575 mm x 200 mm x 370 mm
Membrane	0,35 m ² HPL element
Internal Retentate volume	500 ml, Fully drainable
Internal Permeate volume	50 ml, Fully drainable
Operating Pressure	0-4 bar
Vibration Motor	Pneumatic
Compressed air consumption	4-10 bar, 20-40 L/min incl. feed system
Noise Level	50-65 dBA

Vibro™-LE Data	
Weight	10 kg
Dimensions (L x W x H)	515 mm x 160 mm x 337 mm
Membrane	0,35 m ² HPL
Internal Retentate volume	500 ml, Fully drainable
Internal Permeate volume	50 ml, Fully drainable
Operating Pressure	0-4 bar
Vibration Motor	Electric
Power consumption	40 W excl. feed system
Noise Level	50-65 dBA



Free Flow Plate™ Laboratory Element (HPL) Data	
Generic Design	Free Flow Plate™. Fused Polypropylenes
Membrane Type	Most organic membranes (MF, UF, and other filter types)
Membrane Area	0,35 m ²
Dimensions (L x W x H)	242 mm x 30 mm x 202 mm
Viscosity Range, Apparent	1-1000 cP (e.g. Cream Cheese+)
Temperature Range	5-85°C
pH Range	1-14
Operating Pressure	0-10 bar
Free Chlorine	Membrane dependent

The HPL can be equipped with your membrane of choice. SANI Membranes have a line of standard MF and UF membranes from Synder, Microdyn-Nadir and others on stock. Most commercial available membranes can however also be used with the HPL. Please, do not hesitate to contact us with your membrane wishes.