

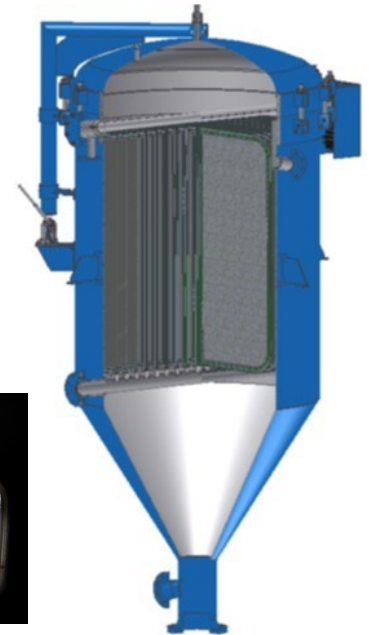
# EnviLeaf VLW-Filter Range (Wet)

## Vertical Pressure Leaf Filter

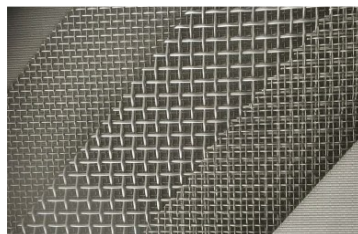


### Vertical pressure leaf filter solutions for wet cake discharge

Our range of EnviLeaf V-Filter pressure leaf filters are designed and engineered using the latest technology to greatly improve cake discharge properties. This economical pressure leaf filter is equipped with vertical, rectangular filter leaves. The filter leaves are mounted vertically and connected to a filtrate manifold at the bottom of the filter tank. For wet cake discharge, an oscillating pipe is used to wash/spray the cake from the filter leaves when the filtration process is complete.



Special Enhanced Nozzle



5 Layer Mesh



Corner Reinforcement

EnviLeaf V-Filter

### Features & Benefits

- **Space-saving, compact design** – compact systems achieve high flow rates and operate at pressures of up to four bars
- **Long-life filter leaves and filter mesh** – constructed from five layers (ply) of stainless-steel wire mesh, each internal filter leaf is designed for long-life
- **High-efficiency** – with excellent pre-coating properties
- **Adaptability** – sized according to your application – with vertical vessels ranging from 5m<sup>2</sup> to 125m<sup>2</sup>
- **Multi-purpose** – one system can be used at multiple stages in the filtration process, customized by the mesh and the structure of the filter leaves within
- **Quicker discharge** – our air vibration system ensures quick and easy cake discharge. With fast drying processes, we ensure the minimum amount of liquid waste during cleaning cycles
- **Enhanced robust design** – our enhanced nozzle has a unique u-shaped profile and is enclosed within a manifold. This design creates a strong bond with the tank, delivers a smooth flow and prevents damage during cleaning
- **Safe operating** – the completely closed filter body ensures safe operating conditions at high temperature

### Applications

- Gelatin processing
- Pectin processing
- Glucose, sweeteners, sugar, fruit juice production
- Edible oil processing (crude oil, bleached oil, winterized oil)
- Bio-diesel production (pre-treatment and polishing)
- Liquid sulfur filtration
- Chemicals and oleochemicals
- Organic and inorganic salts, amines, resins and bulk drugs

## Specifications

<b>Filter Housing Material</b>	Carbon steel or stainless steel. Others available on request
<b>Design Pressure</b>	-1/6 bar (g)
<b>Design Temperature</b>	0/120°C
<b>Design Codes</b>	2014/68/EU PED , ASME VIII, Others on request
<b>Standard Mesh</b>	24x110 mesh in 316L or filtercloth in PP or Nylon. Others available
<b>Leaf Pitch</b>	75mm standard or 50mm available on request

## Ordering Guide

Model	QTY Leaves	Filtration Area (m <sup>2</sup> )	Cake Volume (dm <sup>3</sup> )	Leaf Pitch (mm)	Inlet/ Drain DN	Outlet DN	Vent DN	Slurry DN	Filter Volume (dm <sup>3</sup> )	Empty Weight (kg)
Envi VLW-2000-117-1810	22	117	2562	75	100	150	100	200	9475	4900
Envi VLW-1800-93-1810	20	93	2040	75	100	125	80	200	7115	3550
Envi VLW-1600-67-1810	16	67	1480	75	80	125	80	200	5440	2900
Envi VLW-1400-58-1810	17	58	1270	75	80	100	80	150	3990	2300
Envi VLW-1400-67-1500	23	67	940	75	80	100	80	150	3540	2300
Envi VLW-1400-48-1500	17	48	1050	75	80	100	80	150	3540	2300
Envi VLW-1200-41-1810	14	41	900	75	80	100	50	150	2855	1650
Envi VLW-1200-48-1500	20	48	670	75	80	100	50	150	2520	1650
Envi VLW-1200-34-1500	14	34	740	75	80	100	50	150	2520	1550
Envi VLW-1000-36-1500	18	36	500	75	50	80	50	100	1690	1300
Envi VLW-1000-24-1500	12	24	530	75	50	80	50	100	1690	1200

*Envirogen reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.*

*Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product fits for particular purpose and is suitable for user's applications.*

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