



Leaf Filter Element

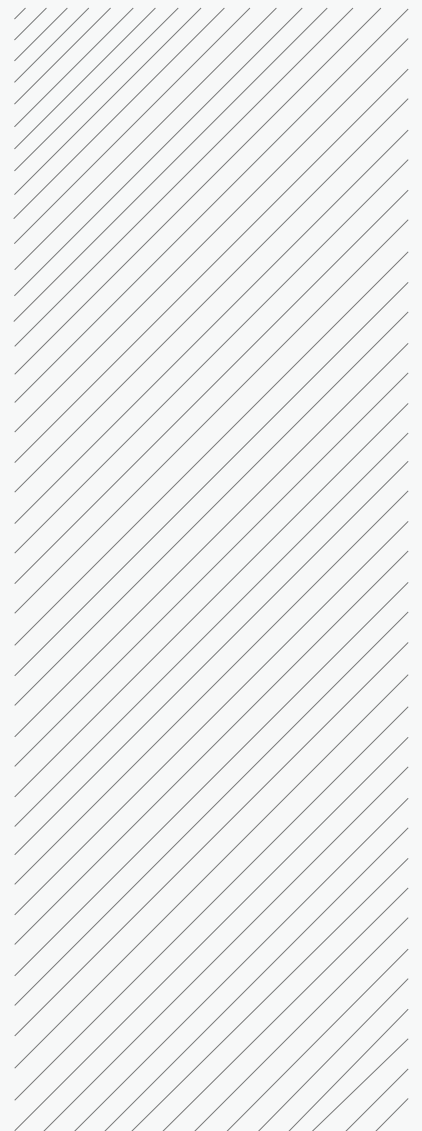
Weave Impossible to Possible



BOEDON Industech Limited

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BOEDON Brochure



We offer high quality leaf filter elements for oil and grease decolorization filtration, pharmaceutical oil filtration, etc.

Leaf filter element is generally constructed of 5 layers of metal woven mesh with different mesh counts by riveting. As the filter elements of the pressure leaf filter, generally 10 to 60 leaf filter elements are evenly placed. At the bottom, they are inserted into the manifold that collects the filtrate. At the top, they are clamped by leaf clamping bar with spacer rings for easy installation and removal. Leaf filter elements can work with a variety of filtering aids and is suitable for decolorization filtration, pharmaceutical oil filtration, crystallization separation process, etc. in the production of oil and grease and chemicals.

Leaf filter elements are made of stainless steel (304, 316, 316L). We can choose the right leaf filter element to match up with your application according to your filtration environments.

Leaf Filter Element

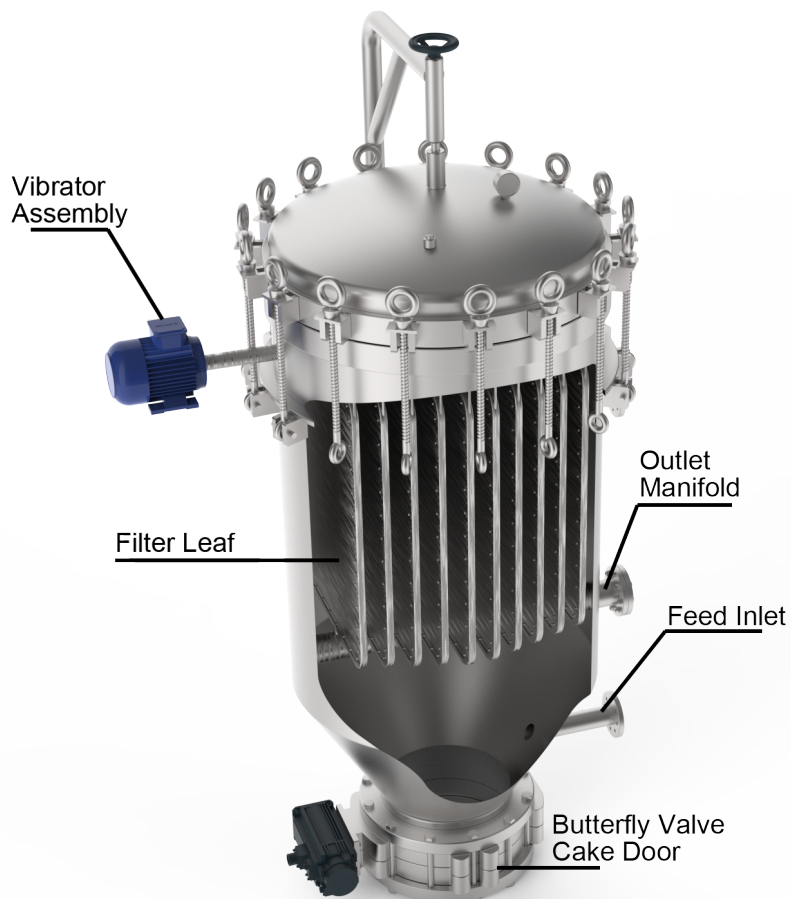


LEAF FILTER ELEMENT

Working Principle

Pressure leaf filters are divided into vertical pressure leaf filters and horizontal pressure leaf filters. Let's take the vertical pressure leaf filter as an example to explain how it works.

First, the liquid to be filtered flows in from the inlet at the bottom of the filter and moves upward under the action of pressure to make the liquid evenly distributed on every leaf filter element. Both sides of the filter element play the role of filtration. Impurities are trapped on the surface and clean liquid flows into the manifold connected with the filter leaves through the central drainage layer and flows out from the outlet. When the impurities on the surface of the filter element reaches a certain thickness and the filtration efficiency slows down, compressed gas is blown into the filter housing. Dry the filter cake and shake it off to the butterfly valve at the bottom of the filter through the pneumatic vibration valve at the top of the filter and discharge the filter cake.



LEAF FILTER ELEMENT

Structure

Every filter leaf consists of a drainage mesh, 2 layers of support mesh and 2 layers of fine filter mesh. Filter mesh adopts plain weave, plain Dutch weave, plain or twill reverse Dutch weave. Drain mesh and supporting mesh adopts plain weave, fine filter mesh adopts plain weave, plain Dutch weave, reverse plain Dutch weave or reverse Dutch twill weave.



Construction	Mesh	Wire Thickness (mm)	Aperture (µm)
1 layer of drainage mesh	Plain weave, 4 × 4	1.6	4750
2 layers of support mesh	Plain weave, 8 × 8	0.7	2470
2 layers of fine filter mesh	Plain weave, 60 × 60	0.18	240
	Plain Dutch weave, 24 × 110	0.54	152
	Plain Dutch weave, 24 × 128	0.58	75
	Plain Dutch weave, 30 × 150	0.53	85
	Reverse plain Dutch weave, 132 × 32	0.77	91
	Reverse Dutch twill weave, 325 × 40	0.73	100

LEAF FILTER ELEMENT

Specification

Material: stainless steel (304, 316, 316L)

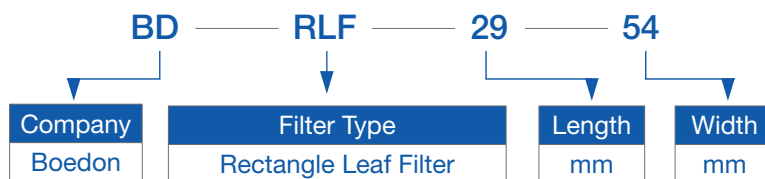
Filter rating: 3–80 µm

Filter efficiency: 98%

Shape: Rectangular, square, round

Applicable filter: vertical pressure leaf filters and horizontal pressure leaf filters

Weave type: plain weave, plain Dutch weave, reverse plain Dutch weave, reverse twill Dutch weave



Specifications of Rectangular Leaf Filter Element

Model	Height (mm)	Width (mm)	Filter Area (m ²)
BD-RLF-92-54	920	540	1.00
BD-RLF-92-60	920	600	1.10
BD-RLF-92-61	920	610	1.12
BD-RLF-92-62	920	620	1.14
BD-RLF-125-45	1250	450	1.13
BD-RLF-125-66	1250	660	1.65
BD-RLF-125-72	1250	720	1.80
BD-RLF-125-77	1250	770	1.93
BD-RLF-135-90	1350	900	2.43
BD-RLF-135-100	1350	1000	2.70
BD-RLF-150-100	1500	1000	3.00
BD-RLF-150-120	1500	1200	3.60
BD-RLF-165-120	1650	1200	3.96
BD-RLF-165-140	1650	1400	4.62

Notes: Square and round leaf filter elements are also available upon request.

LEAF FILTER ELEMENT

Features & Application

Features

- Corrosion, acid and alkali resistant material
- Work with various filtering aids to enhance the filtering effect.
- High firjgfyk
- Multiple leaf filter elements for filtration, providing a large filter area and high filtration efficiency
- Easy to install, low maintenance costs
- Reusable, cost saving

Application



Food

- Edible oil, bleached oil filtration
- Gelatin, starch filtration
- Beer, juice filtration



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