

Pressure leaf filtration system is high quality equipment which produces a high filtrate clarity after the clarification run and is also suitable for all kinds of filter aids. **PLF** can be used for numerous batch and continues filtration process. The fluid to be filtered flows through the filter medium, which covers both side of the filter leaf. Collected solids remain on the filter leaf as filter cake. In most of the cases this filter cake is then dried through steam, air or wet cake. The dried filter cake is then dropped using vibrator activation. The regeneration time between the filtration cycles is very short. Pressure leaf filter is mainly divided in two categories based on its application and use.

1. Vertical Pressure Leaf Filter
2. Horizontal Pressure Leaf Filter

FEATURES AND BENIFITS

- ❖ High filtrate clarity, High yield low product losses - Maximum product recovery from filter cake
- ❖ Large filtration area, No filter cloth - no washing or cloth replacements.
- ❖ Totally enclosed operation - no contact with air/moisture
- ❖ Positive pressure - no vacuum or lowered pressures necessary
- ❖ Wet or dry cake discharge.
- ❖ Easy to automate - operation with minimum labor.
- ❖ Fast and effective cleaning without manual interference.
- ❖ Mechanically simple, easy access to the filter leaves for maintenance or extra leaf cleaning, Improved housekeeping.
- ❖ Steam heating optional.

PRESSURE LEAF FILTER

FILTREX
INDUSTRIES PVT. LTD.



STANDARD DESIGN DATA

Criteria	Details
Vessel MOC	Carbon Steel, (Optional: SS 304, SS 316)
Capacity Vertical	2 SQ MTR to 125 SQ MTR
Capacity Horizontal	5 SQ MTR to 200 SQ MTR
Design Pressure	-1 to 6 bar(g)
Design Temperature	0 to 150 DEG C
Design Standard	ASME VII div.1

FILTER LEAF

The most important part of the pressure leaf filter is the filter element. The double-sided filter leaf is made from stainless steel material, each filter leaf has five layers of stainless-steel wire mesh. The mesh size and material selection is done according to the filter application. Filter sizing and material selection play an important role in a filtration. The quality of filter will have a significant impact on productivity, filtrate quality and life of the filter.

FILTREX IND. PVT. LTD. offers customised designs per filtration requirement. Our inhouse design team will provide accurate sizing information. We offer multiple variants for filter mesh as given in the table. Our manufacturing facility is equipped with international standard machines to achieve best quality product.

FILTER ELEMENT DATA

Criteria	Details
Filtration Mesh	24 x 110 Plain Dutch Weave Optional: PZ80S Reversed Plain Dutch weave mesh/ 60 Mesh
MESH MOC	SS 316 L SS904L Optional
Filter Support structure	4 Mesh- Drainage 8 Mesh- Support Housing channel, Handle, Nozzle
Filter Support structure MOC	SS 304L SS 316 Optional.
Sizes Available	2 SQ MTR to 200 SQ MTR

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