

# Vertical Pressure Leaf Filter Systems

The Amafilter® pressure leaf filter systems have been specifically designed to provide a large filtration area which is made possible due to the shape of their filter leaf elements. These vertical pressure leaf filter systems produce high filtrate clarity after the clarification run. Different types of filter aids can be used in our pressure leaf filters to improve filtrate quality.

## Benefits:

- Proven technology.
- Fully automated, ensures safety.
- Small footprint required, maximized space.
- Easy access to the filter leaves for removal of the cake.
- Limited maintenance, easy to clean and lower operational costs.
- Closed filtration system for complete safety when in use.
- Short regeneration time between filtration cycles, reducing operating costs as the filter can filtrate for longer periods without disruptions.
- No rotating parts, keeping maintenance to minimum.
- Reinforced pressure filter leaves provide extended lifetime.
- Specifically designed self sealing cover gaskets for a perfect sealing solution and maximum safety.

## With wet cake discharge - suitable for applications where:

- The cake formation is too low for dry discharge.
- The disposal is cheap (regeneration for wet discharge is shorter).
- The cake/slurry needs to be transportable via a pump.
- Special oscillating high impact jet headers sluice the filter cake from the filter elements. Filter cloth with low micron ratings can be used for wet discharge. This ensures clear filtrate from the start. The cake is sluiced through the discharge outlet.

## With dry cake discharge - used in a number of applications:

Sugar, cocoa or edible oils, removal of activated carbon, molten sulphur filtration or catalyst recovery.

These systems produce minimal product waste and for some applications the residual product content in the filter cake can be reduced up to 20%. When the cake is the desired product instead of the liquid, and the customer wants the cake as pure as possible, then washing of the filter cake is an option:

- The filter cake is discharged by a pneumatic vibrator through a butterfly valve located at the bottom of the filter which has been specifically designed for easy cake discharge.
- The filter cake is normally dried with compressed air, inert gas or steam before the discharge



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Filtration Group

