



Product datasheet

Pneumapress® Filter

A reliable leader in its category, the Pneumapress filter continues to raise industry standards, offering higher-quality performance and lower maintenance costs than any other vertical pressure filter on the market.

Whether space is your concern, or you simply value the highest efficiency possible, we have engineered the Pneumapress filter to meet all your needs.

This robust pressure filter offers short cycles and high availability. Elegant in its simplicity, the Pneumapress filter boasts the highest production per unit of filtration area. In a word, it's FAST.

- Flexible – Automatically adjusts to maintain peak efficiency, even when individual parameters may change
- Available – Highest availability (95%+) of any pressure filter
- Simple – Clean design creates highly efficient solid/liquid separation with easy operation and maintenance
- Trusted – Robust, available components; engineered for long life. Industry proven.

The epitome of flexibility and dependability

Adaptable filter for a variety of conditions

The Pneumapress® filter is simple, flexible and uses very few consumable items, making it compatible with a number of different applications. Selectable recipes allow the filter to run a variety of products with unique requirements.

- Produces variable cake thicknesses from 10mm to 50mm with the touch of a button
- Adjustable for peak efficiency under changing feed concentrations
- Built for expandability – new intermediate plates plug into place
- Versatile filtration chambers act as standalone filters; chambers go in and out of service with a simple command
- High efficiency plug-flow displacement cake washing

Low-maintenance multi-tasker

The Pneumapress filter's single-cylinder and open design allows for easy inspection, and less effort for maintenance.

- Dewater multiple streams on the same filter
- Easily start and stop production without time-consuming preparations
- Individual cloths per chamber allow changeouts for only the cloth that needs replacing
- Chambers can be isolated for unexpected cloth changes or to reduce throughput and minimise cloth consumption in the case of an upstream or downstream bottleneck

Positive impacts for business and the environment

- Robust – built to last
- Minimal wear parts
- Low-cost spares
- Up to 95% water recovery
- Low energy consumption (kWh per ton)

High production, high availability, low downtime

Offering the most efficient use of filtration area, Pneumapress provides the industry's highest filter production rates (kg/m² per hour), with cake discharges as frequent as every 3 minutes. And, with the shortest mechanical times in the industry, it spends more time dewatering cakes. Ultimately, the Pneumapress filter is closer to continuous production than any other available batch pressure filter.

- 100% cloth washing every cycle extends cloth life and time between cloth changes
- Frequent cycles mean batch sizes can be smaller, requiring smaller tanks upstream and downstream of the filter, as well as smaller dry cake-handling equipment
- The elimination of membranes minimises ancillaries and maintenance

Digital solutions for simpler operation

FLS offers a versatile suite of instruments and digital solutions that allow Pneumapress to run automatically, with little to no operator input.

Our filter control system comes standard with historical trending of all points on an annual basis, for operational fine-tuning. With its full digital suite, the Pneumapress automatically adjusts to maintain peak efficiency, even when individual parameters change.

Design envelope specifications

Footprint L x W (mm x mm)	4,475 x 4,300
Max. quantity of chambers	20
Max. filtration area per filter (m ²)	51.8
Max. filter volume (m ³)	2.59
Max. production (tpd)	2,000
Max. filtration pressure (bar/psi)	10 / 145

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