

# Filtercel™ LHP

## In-line filter with integrated high pressure cleaning system

The Filtercel™ LHP is a closed, selfcleaning in-line filter equipped with a high pressure cleaning system designed to achieve a completely automatic cleaning of the basket and of the filter internal parts so to obtain a continuous production without any operator intervention.

### Applications

The Filtercel™ LHP meets the requirements of the paper industry and guarantees a top quality filtration of highly viscous liquids and high concentrations of dry matter, such as :

- pigment slurries,
- coating colours,
- starch.

## Advantages

### Optimal filtration from 50 to 500 µm

- High filtration efficiency maximised by the unclogging action of a scraping device.
- Excellent ratio Filtration quality / Flowrate (filtering media with increased open surface).
- Good product deaeration.
- Fully automated operation.
- High-pressure cleaning with low water/solvent consumption.

### Easy installation and maintenance

- Easy and quick access to basket and scraper.
- Enhanced mechanical properties of the filtering basket.
- Optimal lifetime of scraper.
- Shaft sealing using self-tightening stuffing box with automatic wear compensation.
- Foot-mounted (option except on F400)
- Lifting device for effortless removal of the filtering basket (not supplied on F850)..



Filtercel LHP F550 installed on fresh colour feeding inlet

## Range

| Size                  | F200         | F400 | F550 | F650 | F850 |
|-----------------------|--------------|------|------|------|------|
| Filtration mesh size  | 50 to 500 µm |      |      |      |      |
| Filtration surface    | 0.2          | 0.4  | 1    | 1.6  | 2.5  |
| Max. flowrate* (m3/h) | 20           | 45   | 110  | 170  | 260  |
| Empty weight (kg)     | 80           | 310  | 600  | 750  | 1000 |

\* Coating colour with a 1500 cp viscosity (Brookfield 100 r.p.m.), filtering threshold of 150 µm and latest-generation filtering media.

Our products are in compliance with the European guidelines relating to machinery (93/44/CE) and pressure equipment (97/23/CE).

# Features and performance

## Filtering media

The basket is made of a stainless steel triangular wire, rolled and welded on vertical supports. This basket is available with slots from 50 to 500  $\mu\text{m}$  providing thus a very high open surface.

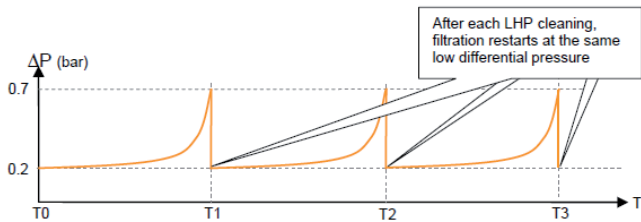
## Product filtration and basket unclogging

The basket selfcleaning/unclogging process takes place automatically during filtration thanks to the rotation of the scraper at 2.7 r.p.m. Contaminants fall by gravity to the bottom of the filter.

## High-pressure cleaning

Upon reaching a preset alarm pressure threshold at the filter feeding inlet, a high-pressure cleaning sequence starts. The cleaning ramp, connected to a high-pressure pump, cleans during filter rotation the filtering basket as well as the inner wall and cover. During this sequence, contaminants are drained through the filter bottom nozzle.

Batch after batch, the filtration quality remains constant:

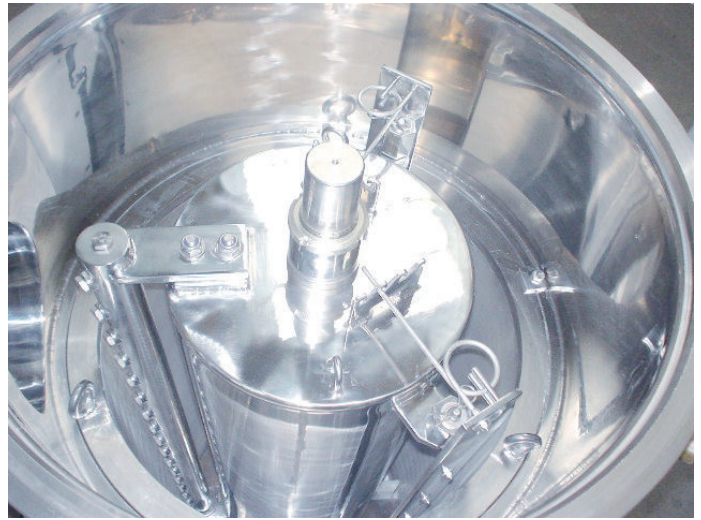


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Inside view with filtering basket, scrapers and high-pressure cleaning ramp