

# Bag Filter

Unit for collecting dirt or foreign bodies



## APPLICATION

A simple module including two or more bag filters to prevent dirt or foreign bodies from entering the downstream line.

A typical application can be:

- Safety filter in a liquid sugar line

## HIGHLIGHTS

- Pressure differential monitoring indicates online when the filter bags get clogged and require maintenance. This also allows the operator to recognise clogging trends early and plan maintenance interventions smoothly.
- Highest safety standards including safety switches for cover opening and collected aeration pipes
- Ergonomically accessible filter housing for maintenance via included accessing platform
- Comfortable installation as filter unit is completely mounted on frame without adding additional piping except for the input and output lines

## WORKING PRINCIPLE

A distribution line guides liquid consistently to each filter device. When the product enters the bag filter housing it runs through a 0.5 m<sup>2</sup> filter bag which retains the dirt particles or foreign bodies. A collecting line merges the different streams through the filters into one transfer line.

Differential pressure monitoring is always in place to give advance warning to the operator that the filter is becoming blocked. The operator can then clean the filter.

The bag filter module works completely manually and usually does not need any manual intervention during production.

Each filter can be isolated independently and purged with a separate, manually operated water connection. Each housing has a manually operated aeration valve which allows a filter housing to fully drain. It also helps to eliminate air bubbles from the housing top when filled with liquid.

## MAIN COMPONENTS

- Bag filter housing
- Small maintenance and access platform
- Supply and discharge piping including manually operated valves
- Main frame including access platform step

## CONTROL PANEL

Delivered without control panel

## EXAMPLE LAYOUT

Measurements on request

## TECHNICAL DATA

All parts in contact with the product are made of AISI 316L. The frame is made of AISI 304L.

Our standard sizes allow the below indicated product flow rates for a maximum viscosity of 60 cP and maximum sweetener concentration of 65° Brix.

- 7,000 l/h
- 15,000 l/h
- 25,000 l/h

Other sizes on request

The bag filter is equipped with filter bags with a 50 micron mesh. Other mesh sizes can be delivered according to your product and capacity specifications.

Filtration using cartridge filters can be delivered on request.

