

HAWLE-CANFIL

Automatic backwash filter – filtration down to 50 μm



HAWLE. **MADE FOR GENERATIONS.**

HAWLE-CANFIL

Automatic backwash filter – filtration down to 50 µm

HAWLE-**CANFIL** is a fully automatic, continuous system that works according to the principle of surface filtration. A wedge wire screen or metal fibre fabric is used for filter candles which retain particles of different sizes on their surfaces. After the pre-determined degree of contamination has been reached, the filter candles are cleaned by back-washing using small amount of filtered medium, while filtration continues during backwashing.

APPLICATION AREAS

- Waste water treatment
- Artificial Snow Making
- Pulp and paper industry
- Fiber industry
- Chemical industry and petrochemistry
- Textile industry
- Steel industry
- Automotive industry
- Water treatment
- Power supply / power plants

FLUIDS: WATER

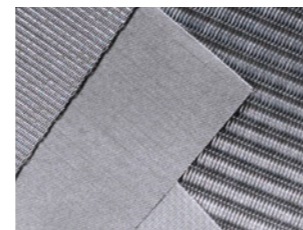
- Process water
- River water
- Sea water
- Reused water
- Cooling water
- Circulation water
- Waste water
- Wash water
- Well water

DESIGN FEATURES

- Separated filter casing with variable nozzle positions
- Motor of backwash rotor under the casing bottom
- Check filter candles: only remove casing lid
- Check rinsing device: only loosen floor flange
- Welding construction for operating pressures up to 40 bar
- Maximum flowrate up to 10,000 m³/h



Fixed V-column filter candle



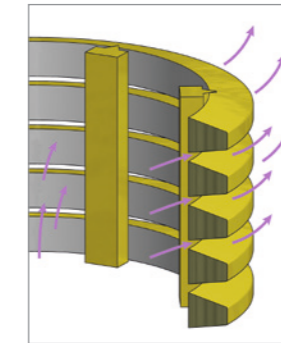
Metal fiber fabric

APPLICATION AREAS

FILTRATION

The fluid is forwarded into the untreated water area of the filter via the inlet pipe, flows through the filter candles fixed on the perforated disc and leaves the filter purified through the outlet pipe.

The automatic vent separates possible gas and air bubbles. Particles are kept back within the filter candles and produce an increasing flow resistance.

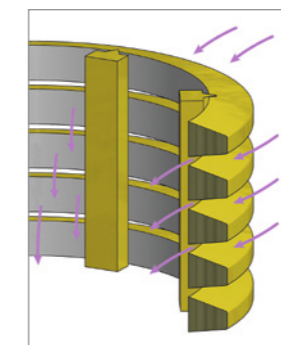


Status: Filtration

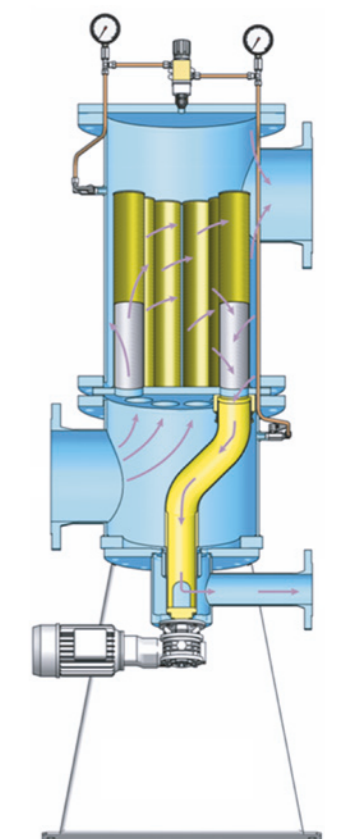
BACKWASHING

As soon as the pressure difference is reached, which can be set on the pressure difference switch, or a pre-selected period of time expires, the automatic backwashing gets activated. The backwash rotor moves from one bottom opened candle to all other filter candles, without interrupting operation. The filter candles will be backwashed with the already filtered medium.

After a full rotation of the backwash rotor, the backwash process is finished and the backwash valve will be closed.



Status: Backwashing



Operating principle HAWLE-**CANFIL**

ADVANTAGES OF HAWLE-CANFIL

- Backwash without interrupting filtration
- Completely closed system
- High operating pressure up to 40 bar possible
- High flowrate up to 10.000 m³/h
- Low pressure drop
- Filter fineness of 50 µm to 3.000 µm
- Low backwash amount due to optimized design of backwash elements
- Long standing times between backwash procedures
- Minimal operating costs
- Low investment costs

RANGE OF PRODUCTS

**HAWLE-CANFIL IS AVAILABLE
IN DIFFERENT SIZES:**



HAWLE-**CANFIL**-100



HAWLE-**CANFIL**-200



HAWLE-**CANFIL**-350

Fabrication material:

- Carbon steel coated
- Carbon steel rubber lined
- Stainless steel AISI 316Ti/L (1.4404, 1.4571)
- AISI 904L (1.4539)

Gaskets:

- EPDM
- Buna
- FPM
- PTFE

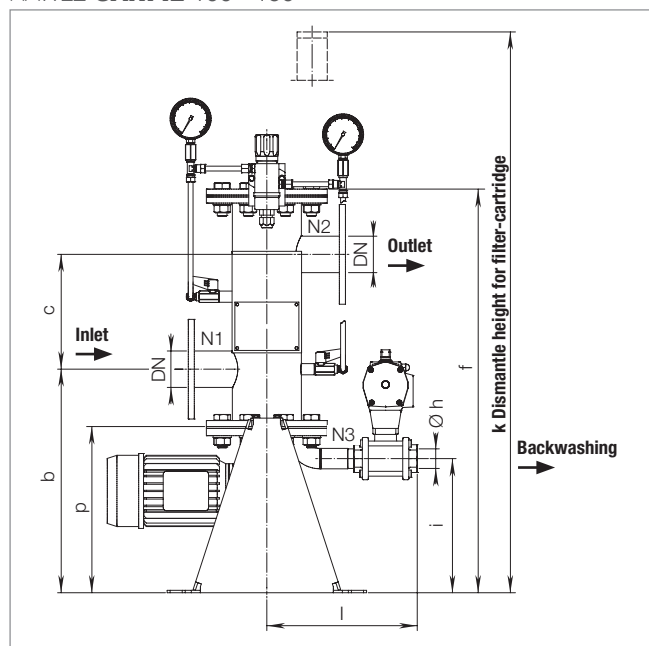
TECHNICAL FEATURES

	from	to
Flow rate	1 m ³ /h	10.000 m ³ /h
Fineness of filtration	50 µm	3.000 µm
Flange dimensions	DN 25	DN 900
Design pressure	6 bar	16 bar * ¹
Design temperature	0 °C	80 °C * ²
Range of application	filtration for low viscose fluids	
Type of filter candles	fixed V-column or metal fibre fabric	
Control board for backwashing	by time or differential pressure	

*¹ higher pressures upon request

*² higher temperatures upon request

HAWLE-**CANFIL** 100 - 150



HAWLE-**CANFIL** 200 - 500

