

# HYDAC INTERNATIONAL

## AutoFilt® ATF TwistFlow Strainer



## The Hybrid AutoFilt® TwistFlow Strainer ATF



### Product description

- Coarse separation by centrifugal force with guaranteed filtration ratings
- 2-stage operating principle
  1. Centrifugal separation  
→ tackles high contamination loads
  2. Conical filter element  
→ guarantees the filtration rating

### Filter element technology

- Depending on the specific weight, even particles < 100 µm are separated effectively
- Wedge wire: 200 to 3000 µm
- Optional SuperFlush non-stick coating

### Product advantages

- No carry-over of contamination to the clean side
- - Suitable for wide variability in the quality of untreated water
- Consistent quality of filtrate
- Also available as skid solution for high flow rates

### Specifications

Nominal size	G1" – DN 200
Qmax	400 m <sup>3</sup> /h
Filter finenesses:	Depending on the particle characteristics and conditions of use

## Function AutoFilt® ATF TwistFlow Strainer

### 1st stage

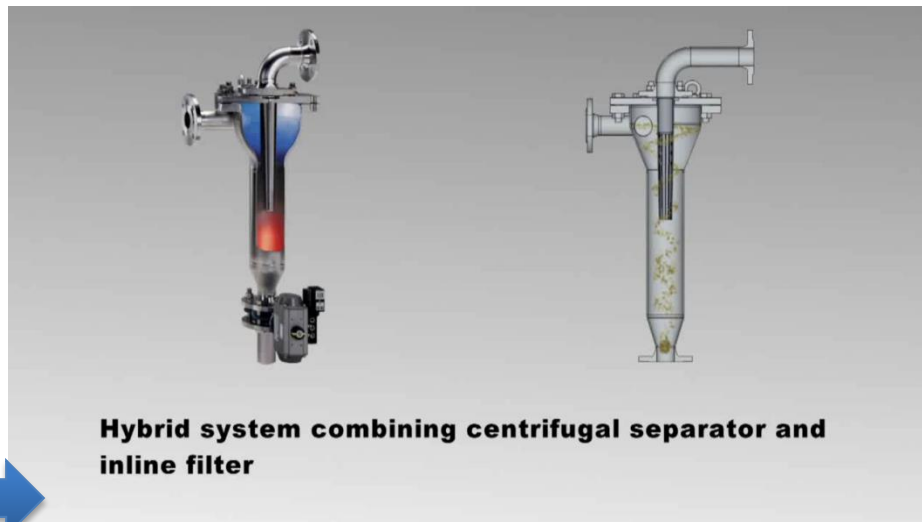
Cyclone-like flow conditions manage high polluting loads and achieve the separation performance of a centrifugal separator

### 2nd stage

Conical filter element secures the separation precision and prevents a transfer of contamination to the clean side

### Area of application:

- Pre-filtration to relieve load on sand filters
- Pre-filtration of membrane layers
- Filtration of surface water



Filtration stage

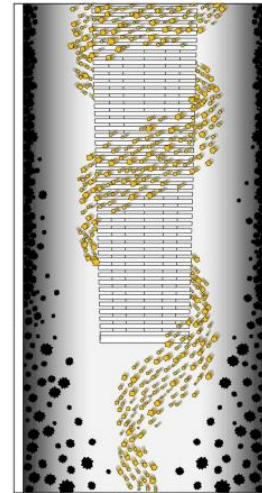
Dedusting stage

## "The ATF can be finer than 200 $\mu\text{m}$ "

**Depending on the specific weight, even particles < 100  $\mu\text{m}$  are separated effectively.**

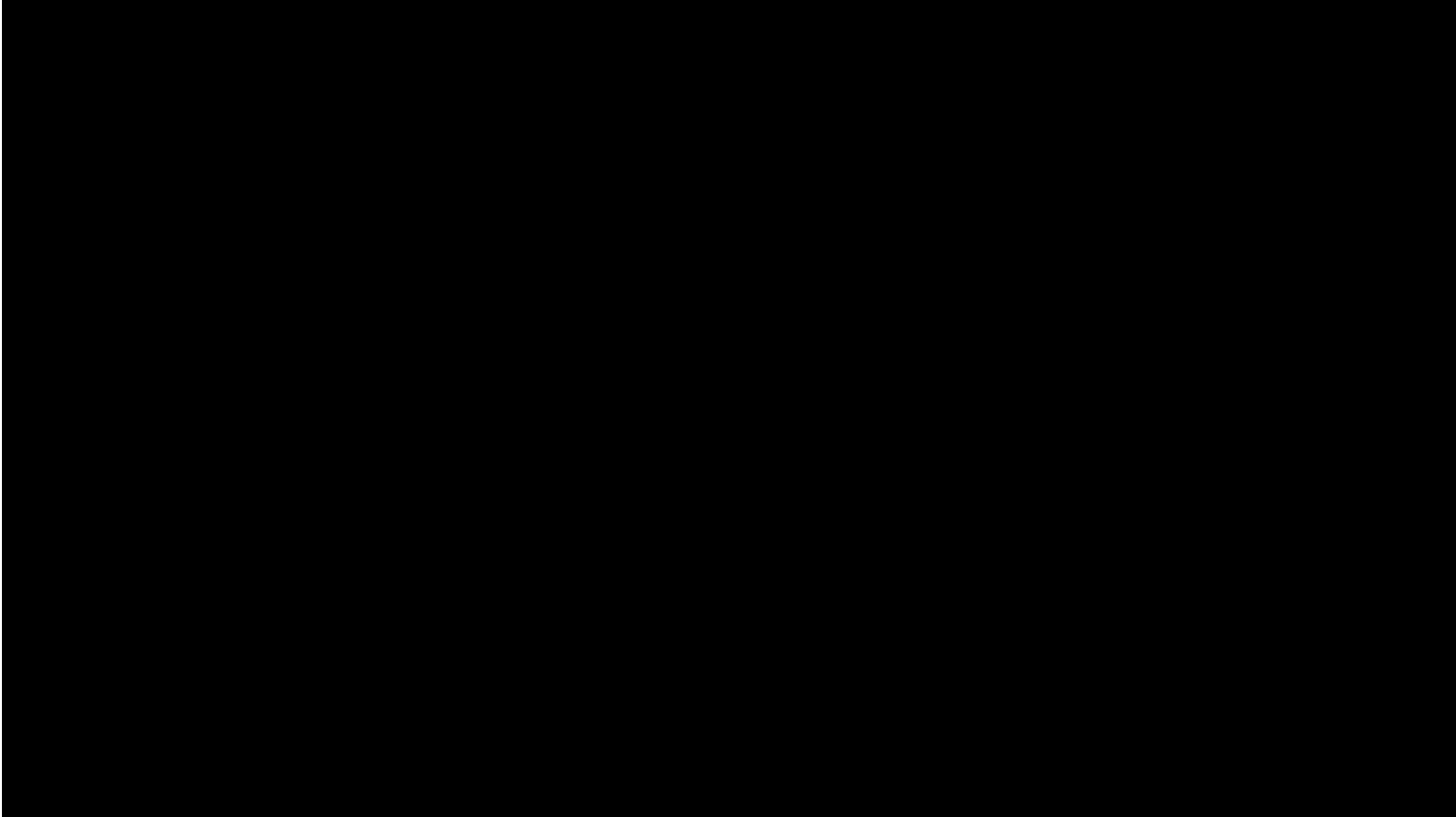
Whereas the danger of a carry-over of pollutant to the clean side exists with conventional hydrocyclones and altered operating conditions, in the HYDAC ATF the conical wire wedge with defined separation limit takes on a protective function (police filter) and thus prevents a carry-over of pollutant to the clean side.

The remaining particles with lesser density, which are not separated downwards by the centrifugal force, are segregated on the conical wedge wire with defined filter fineness. This means that the separation precision is ensured, even with fluctuations in the operating conditions.



Particle size [ $\mu\text{m}$ ]	Degree of effectiveness / Specific Weight		
	7.5 g/cm <sup>3</sup>	2.6 g/cm <sup>3</sup>	1.7 g/cm <sup>3</sup>
> 100	99%	98%	77%
100 – 75	92%	84%	35%
75 – 50	87%	78%	21%

**Product Film Short Version  
AutoFilt® ATF TwistFlow Strainer**



## Skid solution AutoFilt® TwistFlow Strainer ATF

Several ATFs can be arranged in parallel switching for the management of large-sized volumetric flows

Complete, automatically functioning filter station

Continuous separation of solids from water and water-like media





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**Thank you for your attention.**

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