

***Filter technology for
our environment***



Structure & Function

Our advanced suction belt filter „Goliath“ is designed for bath maintenance of pre-treatment plants for surface engineering / automotive industry / food industry, as well as for the filtration of coolants and lubricants in machining.

Quality improvement and lifetime extension of the process fluid to three times as long and longer is hereby implemented.

Through these factors significant cost savings in the area of chemical consumption, waste disposal, cleaning, etc. are achieved, which are today of great importance in terms of process technology and industrial production.

These requirements can be implemented with our belt filters easily and inexpensively.

The suction belt filter „Goliath“ is a fully automatic working filter for a variety of fluids.

The container is made of steel or stainless steel sheet. A stainless steel honeycomb belt carries the filter mat through the washing area. Additionally, an exhauster generates a vacuum underneath the filter mat and thus enhances the flow rate. The regulation of the level and the belt transport are controlled by float switches.

The fluid to be filtered is supplied to the device by a so-called inlet distributor, whereby a controlled inlet of the fluid takes place.

Through the filter mat, which is placed on the honeycomb belt, the liquid enters cleaned into the vacuum chamber.



Suction belt filter „Goliath“

The discharge pump feeds the process circuit with the cleaned fluid (Nozzle system in pre-treatment or washing facilities).

The vacuum exhauster generates through the negative pressure underneath the filter mat an increased flow rate and increased dirt disposal on the filter mat.

The built-up filter cake is a further filter agent, in which fine particles of dirt deposit.

If the filter mat is saturated and the water level exceeds a certain level, it is automatically indexed forward by 50 mm.

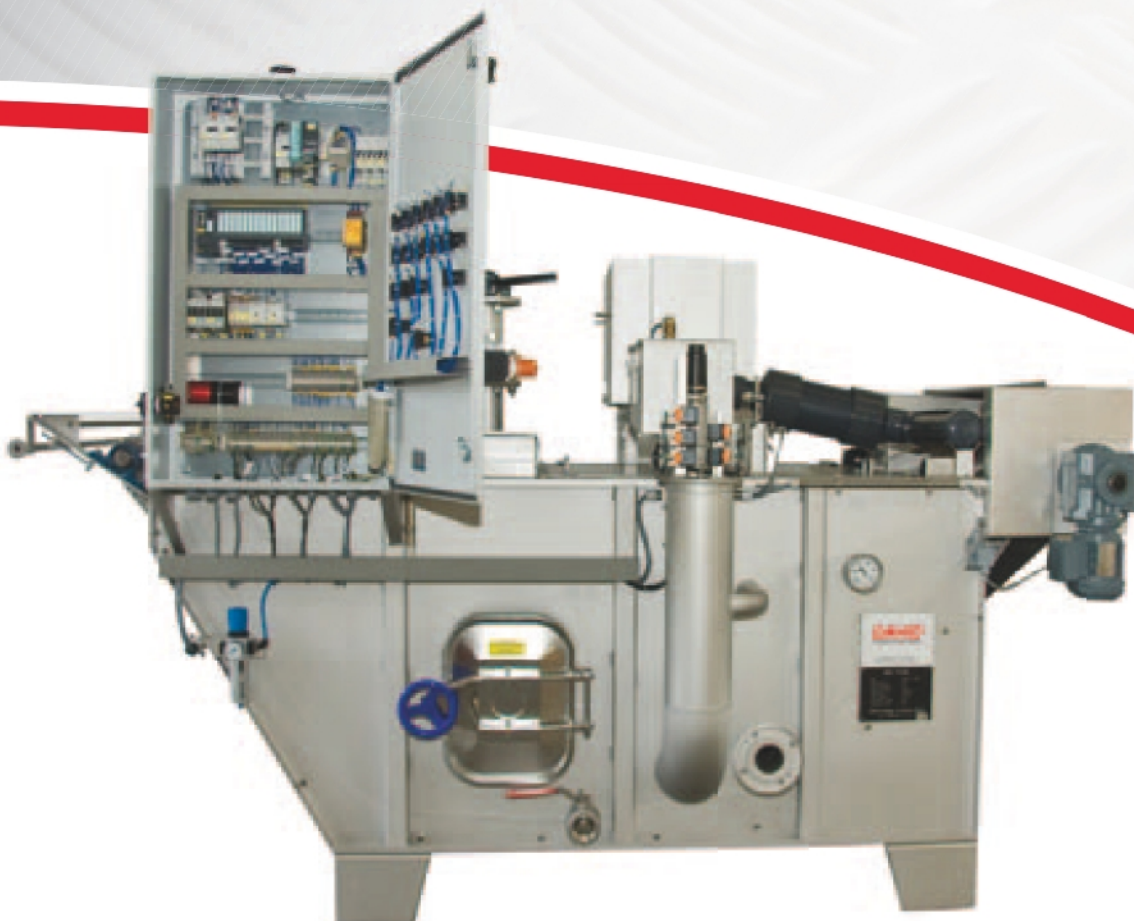
The outgoing filter mat with the filter cake is largely dried by the warm air of the exhauster and enters into the waste collection container.

A limit switch on the filter mat roll signals the end of the roll and switches the device off for replacement.

The exchange of the filter roll can be made during operation.

In our construction we have placed the highest emphasis on ease of maintenance.

In the container/tank manholes are installed which ensure easy cleaning and enable interior inspections.



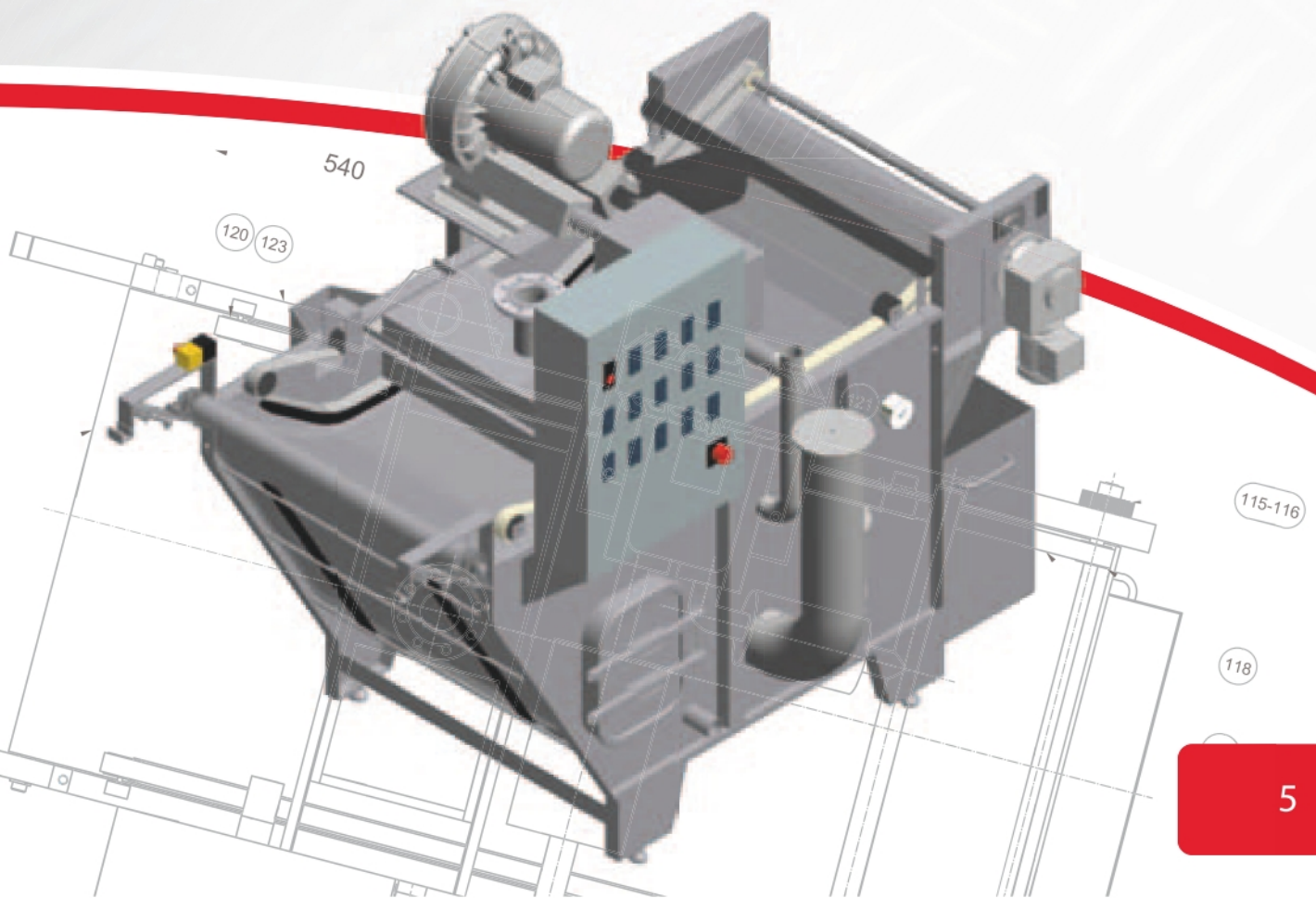
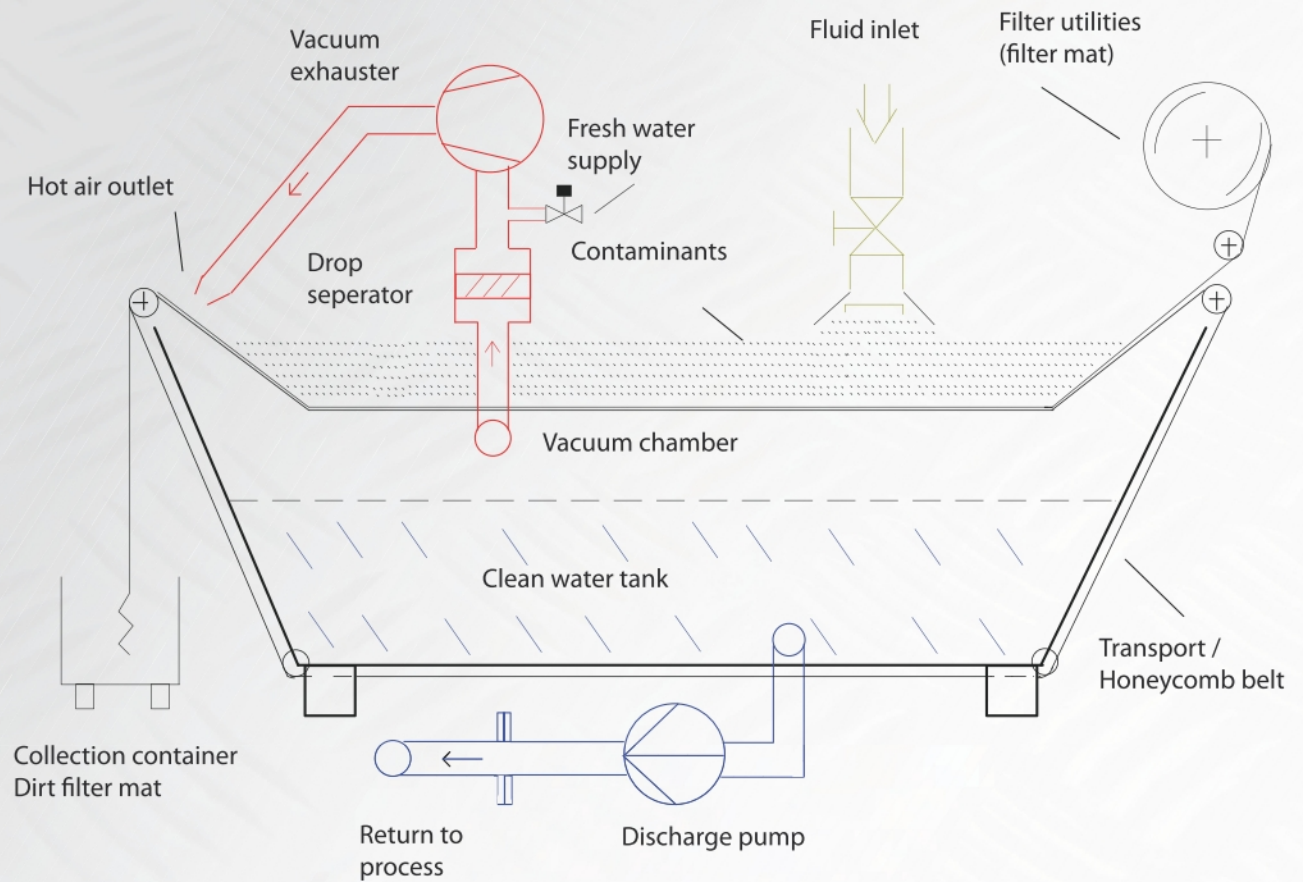
Technical Specifications

Model	SBF1.10	SBF1.20	SBF1.40	SBF1.60
Throughput m ³ /h	10 m ³ /h	20m ³ /h	40m ³ /h	60m ³ /h
Overall length approx.	2525 mm	3025 mm	4000 mm	6000 mm
Overall width approx.	1570 mm	1660 mm	1570 mm	1570 mm
Overall height approx.	2100 mm	2100 mm	2100 mm	2300 mm
Filter mat width	1000 mm	1000 mm	1000 mm	1000 mm
Fluid capacity approx.	0,6 m ³	1 m ³	2 m ³	3 m ³
Pump output m ³ /h	16m ³ /h	25m ³ /h	45m ³ /h	65m ³ /h
E. -Connection Output in KW without discharge pump	1,1 kW	2,2 kW	3,0 kW	4 kW
Compressed air supply	3 bar	3 bar	3 bar	3 bar
Flushing water supply max.	1 bar	1 bar	1 bar	1 bar
Vacuum power	270m ³ /h	360 m ³ /h	460 m ³ /h	560 m ³ /h

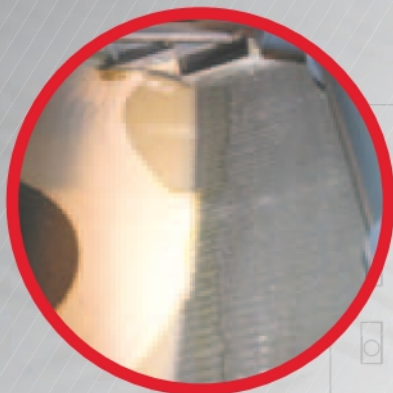
Container material: 1.4301 / 1.4571



Suction belt filter „Goliath“



Patented Technology



Drain water area with soiled filter mat.

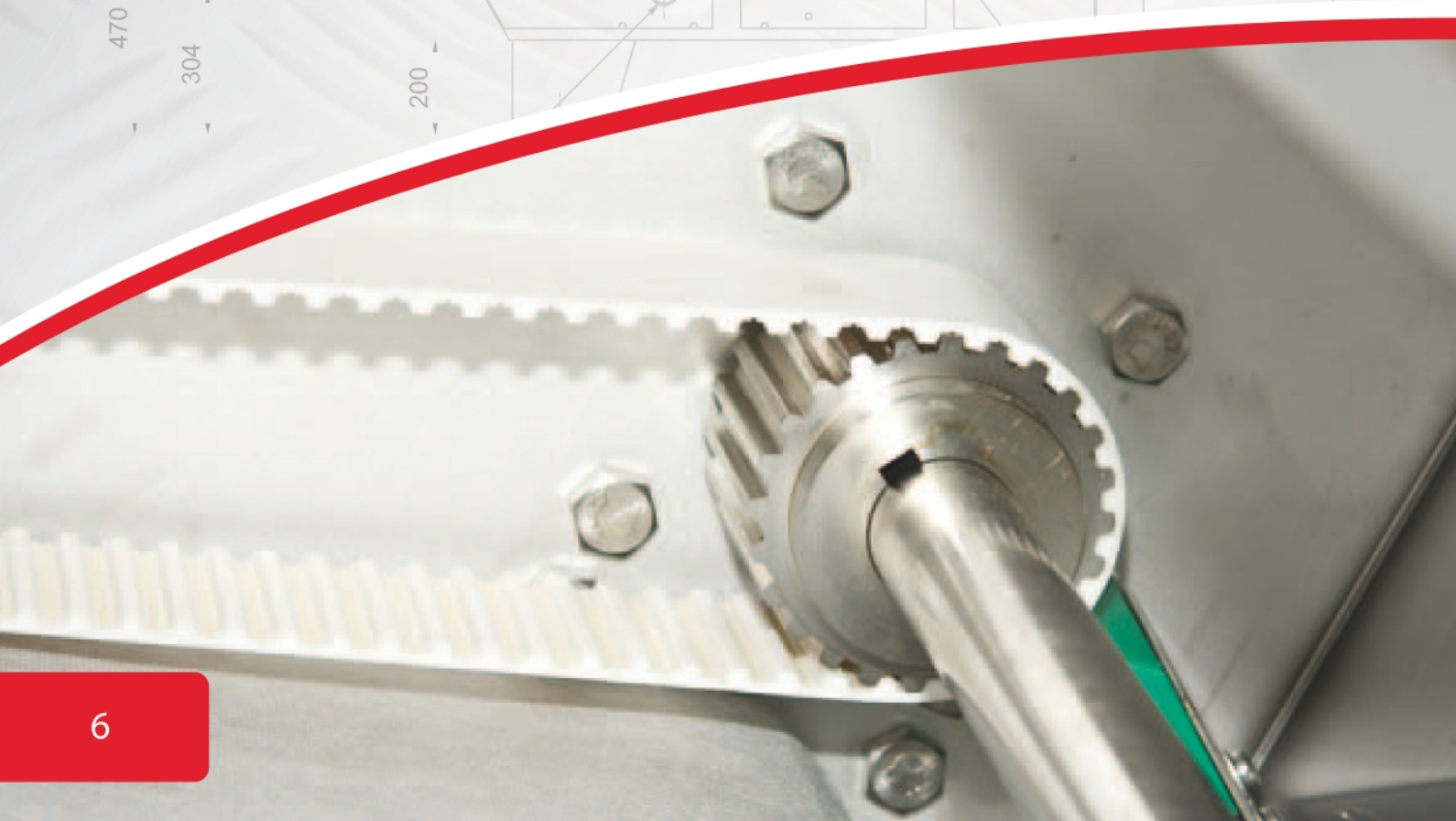
Through the warm exhaust air from the vacuum pump, as a side effect, the filter mat is dried.

This brings cost savings in terms of disposal.



The system is controlled automatically by its own integrated control cabinet with PLC controls.

For the control via a central control cabinet the system can also be equipped with bus systems.



Suction belt filter „Goliath“

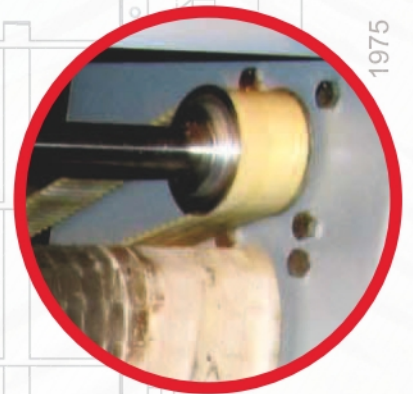
1493

Through the patented lateral seal it is prevented that contaminated water and solids reach the clean water area.



The level control is realized by float systems and proximity sensors.

This system is very durable, dirt-resistant and requires low maintenance.



1975

2025

50

DAVID

Anlagen & Service GmbH

Zur Mosterei 13

36282 Hauneck - Eitra

Phone +49 (0) 6621 / 14707

Telefax +49 (0) 6621 / 14711

info@david-anlagen.de

www.david-anlagen.de

