

# KBF 452



World-wide the most flexible filtration system -  
Fully automatic filtration over filter paper



Because of the possibility of using different filter papers, the desired effects can be achieved.

Dirty paper take up and filter cake stripper for separation of paper and waste are optional.

The filtration procedure takes place in a semi-circular shaped basin, with hydrostatic pressure of about 200 mm. Two disc wheels form the lateral sealing of the filtration basin. There are several waste removers between the disc wheels, which push out all the dirt.

The given filtration efficiencies are to be seen only as a guide. Actual requirements of filter specification are calculated after taking into consideration all provided data. Of importance are:

Throughput, medium, filtration fineness, input of concentration, material and type of waste particles.

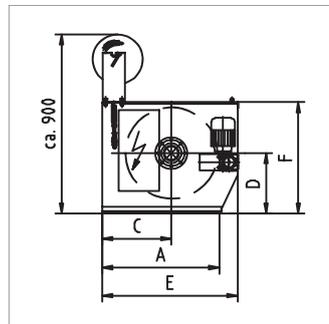
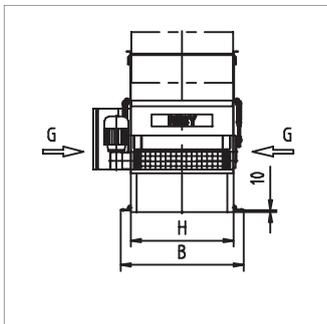
The filter inlet is centric. The outlet occurs throughout the whole area in a vertical downward direction.

Please contact us for further details about your operation.

Due to the design of a special wheel geometry no sensitive sealing is necessary



Automatical paper entry – efficiency by the push of a button!



	KBF 452/500	KBF 452/710
A	580	580
B	604	814
C	340	340
D	300	300
E	665	665
F	552	552
G	DN 65	DN 65
H	504	714
Paper (mm)	500	710
KW	0.06	0.06
Q=l/min	max. 175	max. 250



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Quality made in Germany

# KBF 803

World-wide the most flexible filtration system –  
Fully automatic filtration over filter paper



Because of the possibility of using different filter papers, the desired effects can be achieved.

Dirty paper take up and filter cake stripper for separation of paper and waste are optional.

The filtration procedure takes place in a semi-circular shaped basin, with hydrostatic pressure of about 300 mm. Two disc wheels form the lateral sealing of the filtration basin. There are several waste removers between the disc wheels, which push out all the dirt.

The given filtration efficiencies are to be seen only as a guide. Actual requirements of filter specification are calculated after taking into consideration all provided data. Of importance are:

Throughput, medium, filtration fineness, input of concentration, material and type of waste particles.

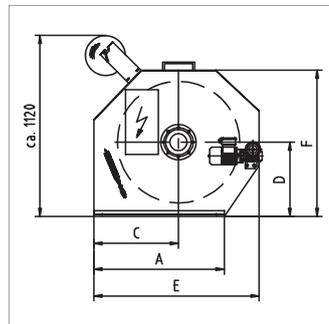
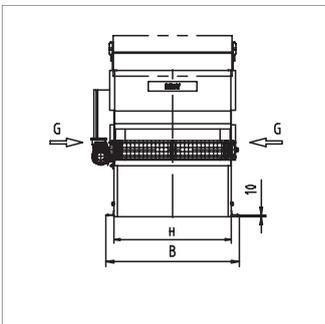
The filter inlet is centric. The outlet occurs throughout the whole area in a vertical downward direction.

Please contact us for further details about your operation.

Due to the design of a special wheel geometry no sensitive sealing is necessary



Automatical paper entry – efficiency by the push of a button!



Automatical belt tensioning over a wide range of the tension sector

	KBF 803/710	KBF 803/1040
A	807	807
B	816	1134
C	519	519
D	460	460
E	1015	1015
F	900	900
G	DN 100	DN 100
H	716	1034
Paper (mm)	710	1040
KW	0.06	0.06
Q=l/min	max. 500	max. 750

# KBF 1001



World-wide the most flexible filtration system -  
Fully automatic filtration over filter paper



Because of the possibility of using different filter papers, the desired effects can be achieved.

Dirty paper take up and filter cake stripper for separation of paper and waste are optional.

The filtration procedure takes place in a semi-circular shaped basin, with hydrostatic pressure of about 400 mm. Two disc wheels form the lateral sealing of the filtration basin. There are several waste removers between the disc wheels, which push out all the dirt.

The given filtration efficiencies are to be seen only as a guide. Actual requirements of filter specification are calculated after taking into consideration all provided data. Of importance are:

Throughput, medium, filtration fineness, input of concentration, material and type of waste particles.

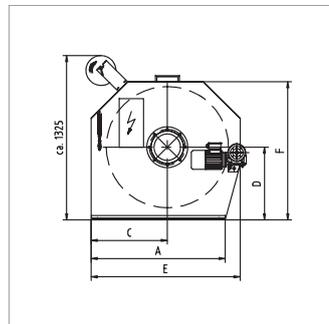
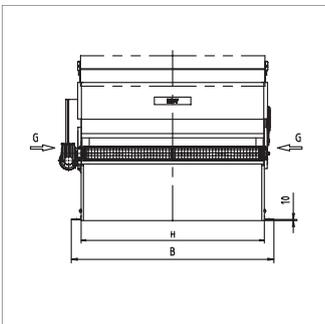
The filter inlet is centric. The outlet occurs throughout the whole area in a vertical downward direction.

Please contact us for further details about your operation.

Due to the design of a special wheel geometry no sensitive sealing is necessary



Automatical paper entry - efficiency by the push of a button!



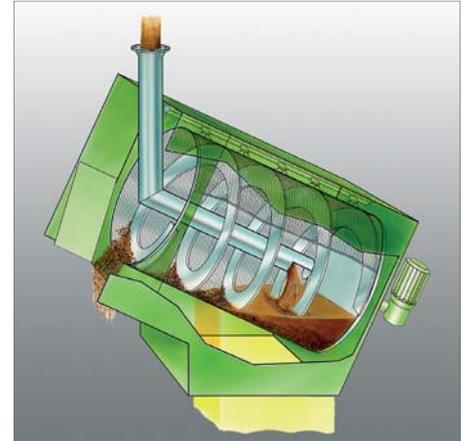
Automatical belt tensioning over a wide range of the tension sector

	KBF 1001/1040	KBF 1001/1500	KBF 1001/2000
A	1095	1095	1095
B	1134	1662	2164
C	625	625	625
D	600	600	600
E	1220	1220	1220
F	1145	1145	1145
G	DN 200	DN 200	DN 200
H	1034	1502	2004
Paper (mm)	1040	1500	2000
KW	0.06	0.12	0.12
Q=l/min	max. 1000	max. 1500	max. 2000



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## RESY RSF roll screen filter system



The RESY RSF roll screen filter system is used mainly as a standalone machine to remove chips from the filtering media. The filtration effect is varied by using different kind of filter fabrics.

The standard version is equipped with 80 µm chromium-nickel steel fabric. No additional filter materials are required and operation is fully automatic.

In the inner drum, the filter fabric has been closely fitted and is, therefore, not subject to heavy strain. Consequently the lifetime of the fabric will take several years.

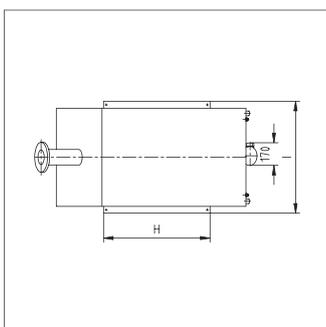
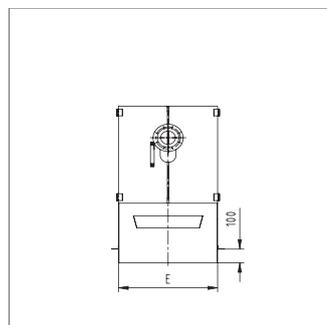
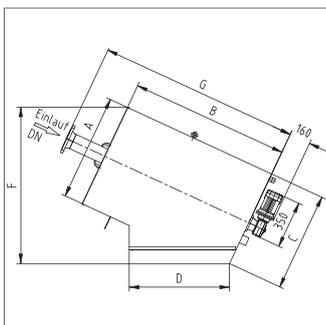
The filter consists of a continuously or intermittently rotating filter drum supported on bearings and inclined upwards at an angle of around 25° towards the discharge. Fitted inside the drum is a discharge screw, which rotates with the drum by means of frictional interlock.

As the chips are kept rolling during rotation, the fabric remains clean. Any material stuck to the fabric is removed by a blast of liquid which cleans the drum from the outside before starting the filtration phase.

The roll screen filter is designed specially for cleaning liquids with high chip content without additional energy or operating material costs. With maintenance work reduced to a minimum, this system offers unsurpassed value for money.

For special processing requirements a dual-circuit system should be used. The RSF filter can be used for coarse cleaning. Media cleaned in this way can be used without problem to rinse tools and the external coolant for example.

For fine (10 to 20 µm) filtration – e.g. for internal lubricant supply – a KBF filter should be installed additionally in the bypass. This filter combination should be sufficient to meet all requirements.



Please contact us for further details about your operation.

	RSF 401/V	RSF 601/V	RSF 801/V
A	580	780	980
B	827	1157	1497
C	530	725	895
D	460	730	1005
E	520	720	920
F	ca. 835	ca. 1150	ca. 1450
G	1088	1465	1855
H	500	775	1050
I	620	820	1020
DN	80	100	125

## Fully automatic liquid filtration without aid by sedimentation and flotation



With this unique sedimentation system, deposit height of all particles is reduced by about 35 mm.

The high solids concentration in the separator has a mutual influence on the individual parts, so that all particles have a similar speed.

The sedimentation and flotation procedure is a pure physical filtration and allows to profit by these precious free of charge physical processes. No expensive chemical additives, no expensive expendable items, e.g. filter paper etc., no expensive energy, only a small maintenance is necessary.

Important: there are no costs for waste disposal thereby incurred. We have the nature working for us free of charge.

The separated particles are pushed out continually. Manual cleaning of the tank is no longer necessary.

The reduced declining height in the separator is achieved by the oblique position in the sedimentation areas.

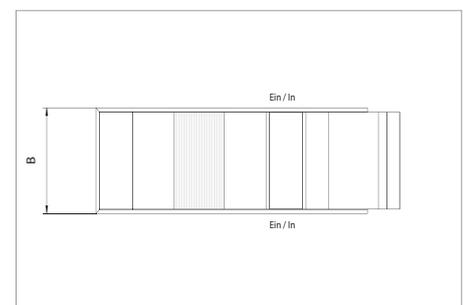
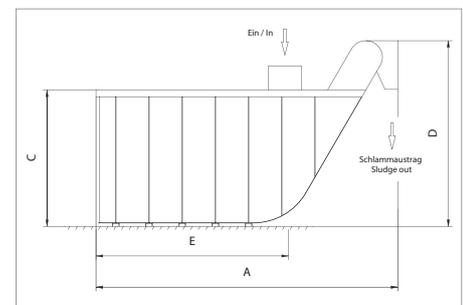
Individual channels are formed over the whole area. The channels are 20 mm high and clean themselves automatically.

On the top side of the channel, the separated medium flows upwards while the isolated particles are dropped down into the waste area. The sedimentation system consists of the following sections:

1. Pre-sedimentation and air ventilation
2. Sedimentation area
3. Clean area

The system is maintenance free and very flexible and can be adapted for any specific use.

Please contact us for further details about your operation.



## The mixing of liquids RESYmix in the metal processing industry



RESYmix automatic



RESYmix manual

RESYmix mixing devices operate using the jet pump principle. They provide extremely homogenous and stable mixtures of emulsions and solutions. The benefits of this are:

Adherence to the prescribed concentration, less tool wear, reduction in cost of disposing of old emulsion, less use of expensive concentrate. In short, an investment that pays for itself in full within a short time.

The devices are cast from top quality GG 22. This has made it possible to give the flow channels the best possible design. The devices therefore have no internal piping. Bad mixtures are therefore prevented. The final mixture can be transported away at a manometric counterpressure of 0.4 bar. All devices

are fully assembled and ready for connecting, as is evident from the pictures.

The devices are supplied ready for operation. During assembly it must be taken into consideration that the water supply pipe must be adequately dimensioned. The flow pressure must be constant. If the water pressure fluctuates it is advisable to install a normal commercial pressure regulator upstream.

The devices are installed directly above the concentrate tank. Once the intake hose has been suspended in the barrel the devices are ready for operation. Open the valve and then adjust and check the mixing ratio. With automatic devices an automatic shut-off occurs when the concentrate barrel is empty.

Manual, automatic, stationary and mobile RESYmix devices are available for any capacity. The automatic devices are controlled using a level probe from the emulsion tank. When the concentrate barrel is empty the devices are automatically shut off and visual indication is given of the lack of concentrate. High-percentage master emulsions also can be manufactured, e.g. during rapid filling of large systems. A dynamic water pressure of 1.7 bar is required to operate the RESYmix mixing devices. Manual refractometers are also available for measuring the concentration.

### Installation size RESYmix

Duplex	700	manual	700 l/h
Duplex	1600	manual	1600 l/h
Duplex	2500	manual	2500 l/h
Duplex	700	automatic	700 l/h
Duplex	1600	automatic	1600 l/h
Duplex	2500	automatic	2500 l/h
Duplex	4000	automatic	4000 l/h
Duplex	8000	automatic	8000 l/h