



## Round bed filter RBF 162 - 1102

Bär + Co. supplies round bed filter in a compact design for filters capacities of 160 - 1100 l/min. Plants for larger throughput capacities available on request.

### Use

Cleaning of soiled liquids.

The filter performances mentioned on our dimension sheet relate to liquids with a viscosity of up to 4 mm<sup>2</sup>/s.

Higher viscosity media have to be designed with regard to the filter surface and filter fleece quality on a case-by-case basis.

### Main application area

Filtration of coolant emulsion from individual machine tools or from entire production areas in the metals industry.

Cleaning of liquids from industrial washing systems and dedusting technology are further fields of application.

### Equipment versions

Magnetic pre-separator, (retrofitable) for pre-separating of ferritic impurities in the case of high accumulation of dirt.

Filter fleece end control for automatic monitoring of the fleece supply.

Autom. fleece reel for rolling up of worn out filter fleece.

### Design features

A honeycomb belt is wrapped one semicircle around 2 circular pressure discs and forms with them an arch-shaped filter bed.

The filter fleece is tightly clamped between the pressure disc and the honeycomb belt.

The low-profile filter trough ensures a lower filter fleece consumption.

### Advantages

- Reliable particle separation with high degree of cleaning
- Low space requirement
- Minimum consumption of filter fleece and energy
- Safe chip discharge due to the carrier bars

### Functional description

The soiled liquid passes through the inlet damping (1) on the filter fleece. This retains the dirt particles, while the cleaned medium flows into the coolant tank.

The liquid level in the filter housing (2) increases with increasing soiling of the filter belt.

When the maximum possible fill level is reached, the geared motor (3) is automatically started for the transport of the fleece.

The honeycomb guides the soiled filter fleece to the discharge.

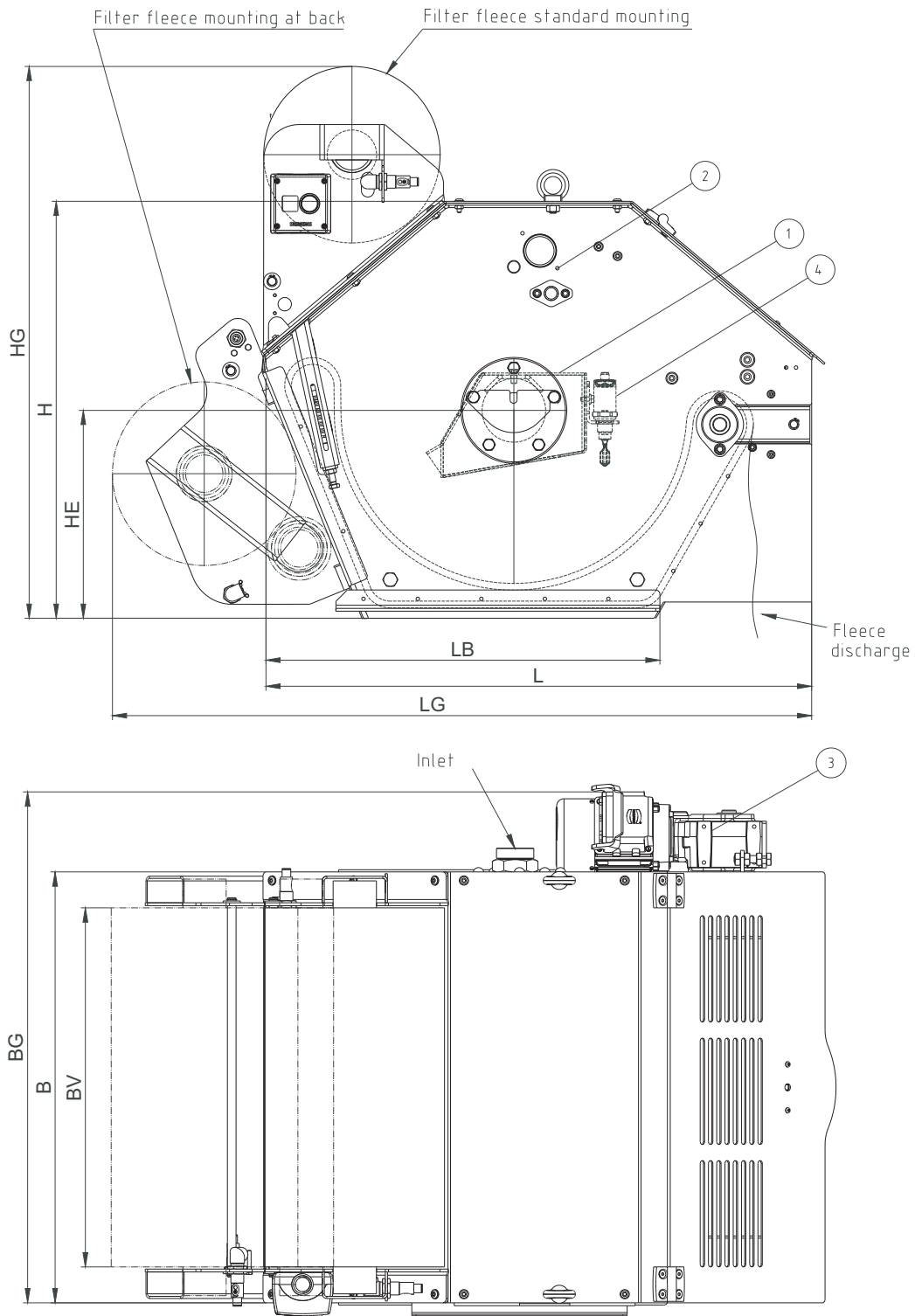
At the same time, a new fleece is guided from the roll into the filtration area.

This reduces the flow resistance of the filter belt, the liquid level drops, and the filling level probe (4) terminates the feed cycle when the lower switching point is reached.

Complete systems, including tanks, pumps, valves, control, etc., are designed and manufactured for the respective requirements.



# Round bed filter RBF



Type	* Filtercapacity		Filter dimensions (mm)									
	Emulsion (l/min)	Oil (l/min)	B	BG	BV	H	HG	HE	L	LB	LG	A (m <sup>2</sup> )
RBF 162	160	90	600	780	500	592	755	295	777	563	935	0,30
RBF 252	250	140	506	640	400	901	987	460	1124	891	1351	0,36
RBF 452	450	245	806	933	700	901	987	460	1124	868	1351	0,70
RBF 652	650	355	1106	1233	1000	901	987	460	1124	868	1351	1,00
RBF 902	900	495	1406	1533	1300	901	987	460	1124	868	1351	1,30
RBF 1102	1100	600	1606	1733	1500	901	987	460	1124	868	1351	1,50

\*Emulsion with viscosity  $\leq 4 \text{ mm}^2/\text{s}$  - Oil with viscosity  $< 20 \text{ mm}^2/\text{s}$