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Inverting Filter Centrifuge Series F

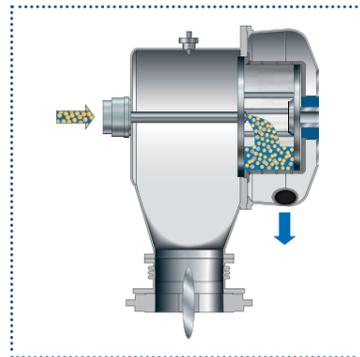


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Function

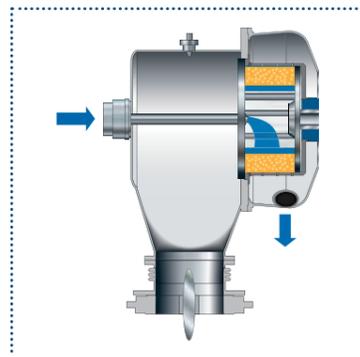
Simple, reliable and versatile



Filling

The slurry (liquid stream containing solid to be separated) is delivered to the process chamber which is a rotating drum a feed pipe.

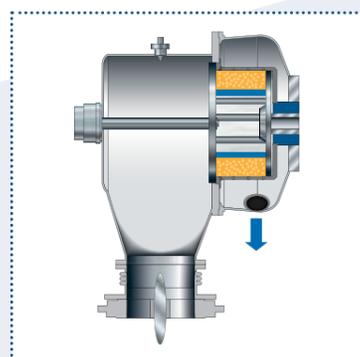
The filling step is usually controlled through a load cell based weight control system that can optionally be controlled by time or volume.



Washing

The wash liquid is introduced and controlled in the same manner as the slurry.

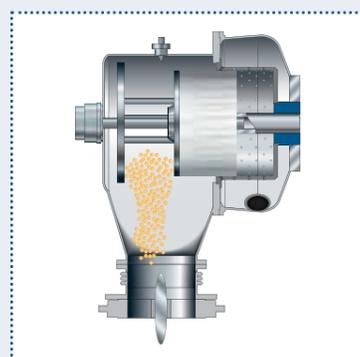
Due to the homogeneous cake build-up, each part of the solid cake will be washed to the same quality.



Spinning

The drum spins at a pre-set value chosen from the speed range of the individual machine.

The filtrate passes through the filter cloth which lines the process chamber during which the solids collect and build up on the filter cloth to form a cake of material.



Filling

The separated solids are discharged by inverting the filter cloth through the axial movement of the shaft, during which the bowl keeps rotating at a low speed.

Form follows function

Benefits by design



Clean room separation



Integrated clean membrane



Easy access for maintenance

The new F Series design not only saves costs but also increases operator safety in the production facility.

The new F Series Inverting Filter centrifuge requires 30% less space than the traditional HF centrifuge. HEINKEL redesigned the axial and main rotational drive system of the machine to allow for a smaller footprint while maintaining the operational integrity and reliability expected of HEINKEL centrifuges. The square layout can easily integrate into existing building structures.

The new integrated controls and design of the F Series Inverting Filter centrifuge minimizes installation costs by up to 50%. The standard machine is pre-engineered for installation into clean-room applications, and utility supply lines can be directly connected to the central manifold – saving valuable on-site assembly hours as well as preventing time-consuming installation errors. In addition, the housing of the machine has hinged double doors on three sides for easy maintenance and service access.

Technical data	F1	F2	F3	F4 Duplex	F4 Hastelloy
Centrifuge type					
Basket diameter (mm)	450	560	710	900	900
Filter area (m ²)	0.31	0.49	0.78	1.24	1.24
Nominal load (ltr.)	27	60	103	212	212
Speed max. (l/min)	2700	2400	2000	1850	1660
Spinning speed (x g)	1835	1800	3500	4000	4000
Length (mm)	2500	2800	3095	4080	509
Width (mm)	1250	1350	2000	2200	2200
Height (mm)	2000	2250	2700	3000	3000
Weight (kg)	2350	3800	7600	11000	11000