

The Hedemora VDF filter is designed for processing paper machine white water into high quality filtrate while, at the same time, recovering the fibres. It is also designed for thickening low to medium freeness pulp, especially where high discharge consistency is required.

The Hedemora VDF filter is available in 3.66 and 5.2 meter diameters.

Key Benefits

- Reliable Operation
- Superior Filtrate Quality
- Easily Cleaned Cloths And Sectors
- Quick Dismounting of Sectors
- Flexible Installation

Reliable Operation

The Hedemora VDF filter is a reliable, state-of-the-art disc filter, continuously improved through many years of experience in different applications world-wide. The rugged design ensures the highest possible availability.

Superior Filtrate Quality

The smaller of the internal volumes of the filter, the easier it is to keep the filtrate clear. The Hedemora VDF filter has small internal volumes in the shaft, filtrate valve, and the sectors which ensures the best possible filtrate quality for each specific application.

The clear filtrate can be split into two fractions, clear and super-clear filtrate, depending on the process needs.

Easily Cleaned Coths And Sectors

Each disc is built up by 20 open-grid sectors connected to corresponding filtrate channels in the shaft. The open-grid sector design, with over



The Hedemora VDF Filter

90% open area, eliminates the risk of pulp and debris accumulating inside the sector. This design allows the fabric to be cleaned from both the outside and inside by a spray water jet passing through the open sector. This keeps the cloth cleaned longer which improves effectiveness.

Quick Dismounting of Sectors

To minimize the time needed for cloth exchange during preventive maintenance, GL&V/Celleco has developed a cassette concept that makes it possible to dismount and mount sectors quickly.

The sectors are accessible from the platform through the hood doors.

Flexible Installation

The Hedemora VDF filter is designed for both clockwise and counter-clockwise rotation. This provides greater flexibility when planning the mill layout, for example, when series or parallel operation mode is needed.

The compact design of the Hedemora VDF filter minimizes the floor space required for installation.

Working Principle

The slurry enters the filter via the headbox and is uniformly distributed across the entire vat length.

The pulp mat starts to form under gravity, ensuring optimal dewatering characteristics.

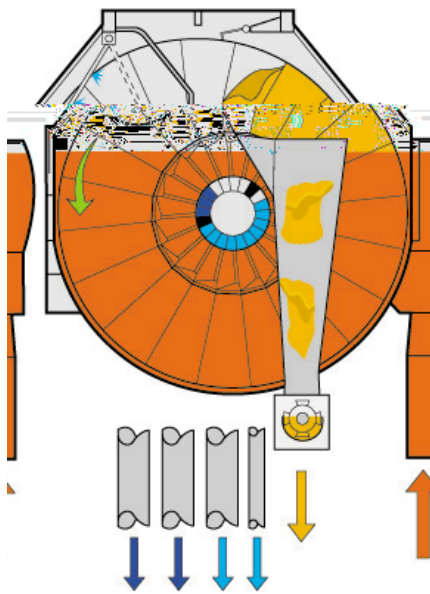
The filtrate is drained via the open-grid sectors to the corresponding filtrate channels in the central shaft.

The rotating shaft is connected to a filtrate valve which opens and closes the channels to vacuum created by the barometric legs. As the filtrate enters the valve, it is diverted into cloudy, clear super-clear filtrate (if required).

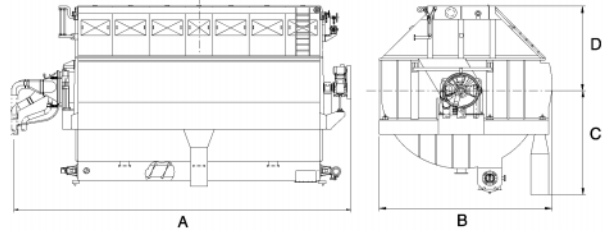
After the sectors emerge from the suspension, they are drained and the pulp mat is dewatered under vacuum.

The pulp mat is peeled from the sectors by a waterjet and discharged through chutes inside the vat to a screw conveyor.

The filter cloth is cleaned by an oscillating nozzle before the filtration procedure begins again.



General Dimensions



General Data

VDF	B	C	D
VDF 5.2	6410	3650	3000
VDF 3.66	4550	2435	2250

Hedemora VDF filter 5.2

No disc	8	14	20	26	30
Area m ²	248	434	620	806	930
A mm	5940	8040	10210	12310	13710
Net weight ton	22.6	30.9	39.9	48.9	54.5
Op. weight ton	83	133	183	233	267

Hedemora VDF filter 3.66

No disc	6	10	14	20	27
Area m ²	84	140	196	280	378
A mm	4525	5825	7125	9075	11350
Net weight ton	10.9	14.1	17.5	22.2	27.8
Op. weight ton	33	49	66	90	119

Material

All wetted parts in: High grade stainless steel
Filter cloth of polypropylene as standard, kynar and stainless steel as option.

Patents

The design is protected by patents and patent applications.

For more information please contact your Local Representative or Regional Headquarters