

PERIDISC

**Disc filter for fiber recovery
and pulp dewatering**



Wide range of applications
Easy maintenance
Optimized flow characteristics

PERIDISC

DISC FILTER

The PERIDISC disc filter is used for saveall and pulp dewatering applications.

In saveall applications PERIDISC effectively processes paper or board machine white water recovering the fibers while at the same time producing filtrates with excellent qualities. PERIDISC is also designed for dewatering low and medium freeness pulps with a high possible discharge consistency.

WORKING PRINCIPLE

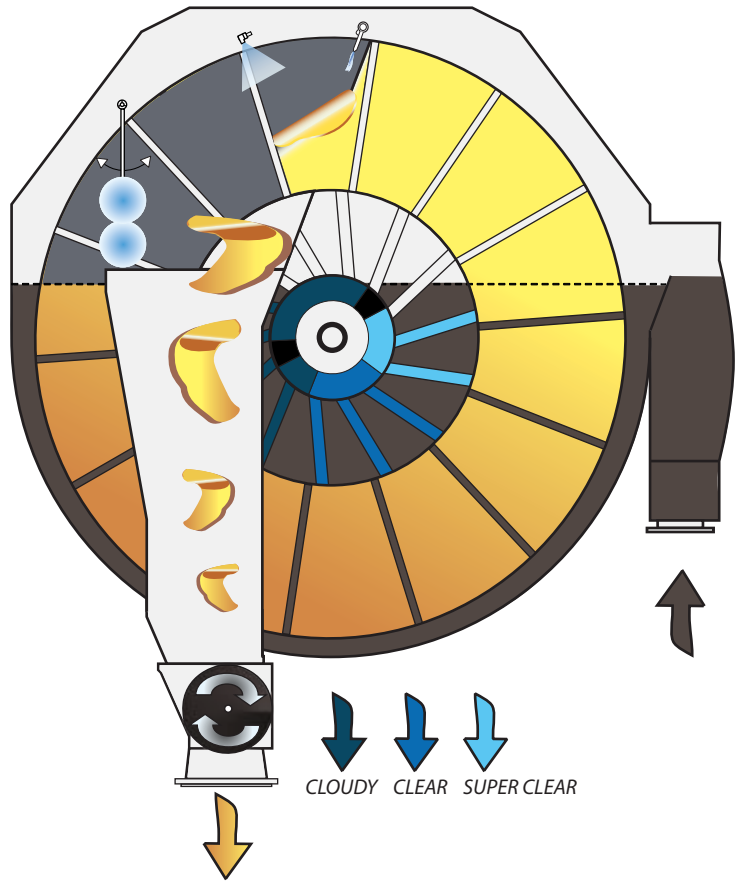
The pulp suspension enters the filter via the inlet box and is uniformly distributed across the entire length of the vat. When the rotating sectors are submerged in the pulp suspension, the filtration cycle starts. This first phase of the dewatering process takes place under atmospheric conditions. A pulp mat starts to form and cloudy filtrate is extracted.

After the cloudy filtrate zone, clear filtrate is extracted under high vacuum. PERIDISC can also be equipped with a super clear filtrate zone for saveall applications.

When the sectors leave the pulp suspension, the remaining filtrate is drained and the pulp mat is further dewatered. The vacuum is cut off when the sectors reach the discharge position which is located on the descending side of the filter.

Knock-off showers are used to remove the pulp from the discs. The dewatered pulp falls through the chutes between the discs and into the repulper conveyor.

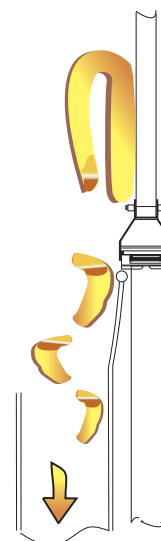
Oscillating showers ensure thorough cleaning of the discs after pulp discharge.



TROUBLE FREE PULP DISCHARGE AT HIGH CONSISTENCIES

Since the pulp is discharged on the descending side of the filter, a long retention time is achieved. In combination with the high vacuum, this facilitates dewatering to high consistencies.

The patented design of the outlet chute ensures trouble free discharge of the pulp mat.



PATENTED PULP DISCHARGE

The overlap between the filter sector and the outlet chute prevents pulp build-up between the discs and the chutes.

IMPROVED FLOW CHARACTERISTICS

The drainage deck consists of two specially designed back-to-back corrugated stainless steel plates ensuring maximum structural rigidity to the sector.

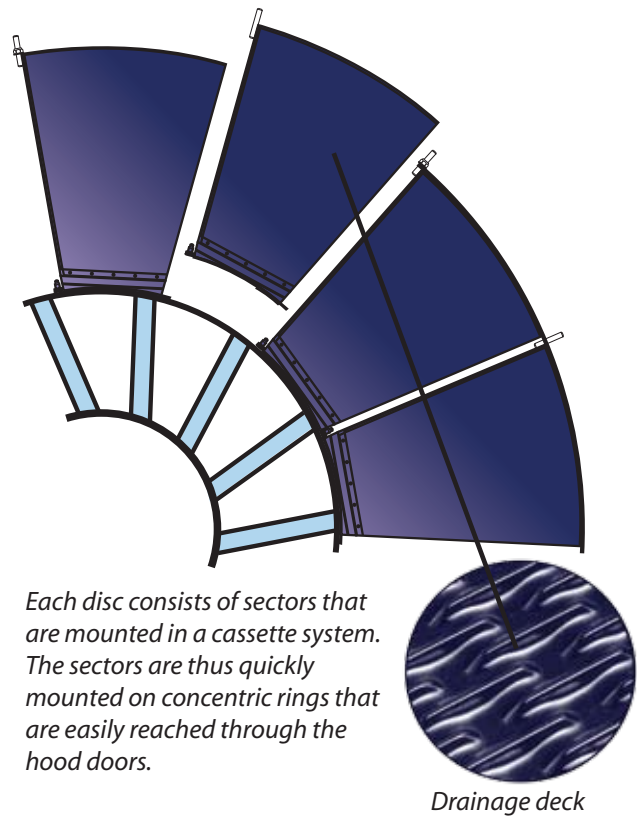
The sectors which are equipped with filter bags are optimized in regard to the ratio between filtrate volume and filtration area. They are designed to provide high drainage capacity, feature minimum internal volume and eliminate rewetting of the pulp.

EFFICIENT CLEANING – MINIMUM WEAR

The special profile of the corrugated drainage deck prevents fines accumulation under the filter cloth.

During cleaning the water jet is reflected off the internal sector plate so that flushing from the inside as well as the outside is achieved.

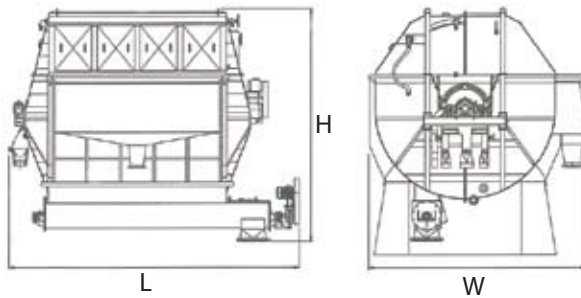
By the soft design of the plates minimum wear of the filter bags is guaranteed.



WIDE RANGE OF SIZES

PERIDISC can be manufactured in four different sizes and disc numbers up to 30. This means filtering areas up to 1056 m².

DIMENSIONS



General dimensions		
Size	Height H (mm)	Width W (mm)
PERIDISC 22	3250	2950
PERIDISC 30	4319	4084
PERIDISC 40	5542	5180
PERIDISC 55	7575	7020

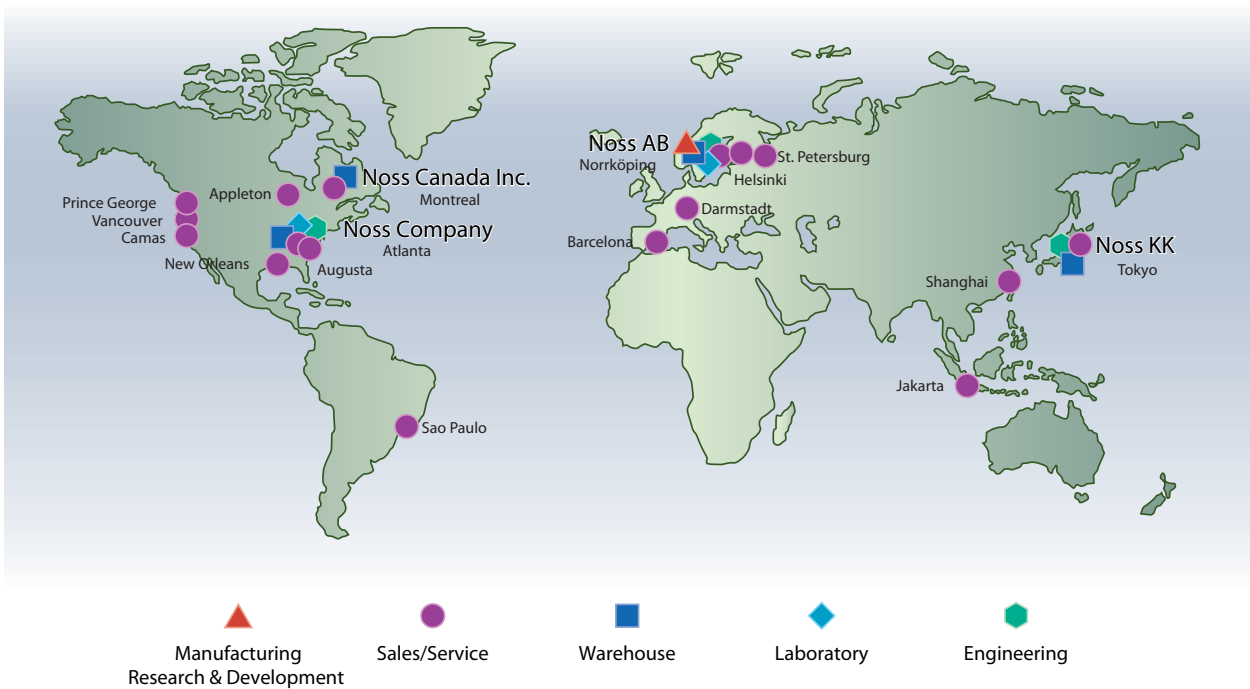
		Length L (mm) and Filter Area A (m ²) for number of discs														
Size		3	4	6	8	10	12	14	16	18	20	22	24	26	28	30
PERIDISC 22	L (mm)	3465	3715	4215	4715	5215	5715	6215								
	A (m ²)	17	22	33	44	55	66	77								
PERIDISC 30	L (mm)			4620	5170	5720	6270	6820	7370	7920	8470					
	A (m ²)			55	73	91	109	128	146	164	183					
PERIDISC 40	L (mm)			5095	5795	6495	7195	7895	8595	9295	9995	10695	11395	12095		
	A (m ²)			108	144	180	216	252	288	324	360	396	432	468		
PERIDISC 55	L (mm)					7262	8102	8942	9782	10622	11462	12302	13142	13982	14822	15662
	A (m ²)					352	422	492	563	633	704	774	844	915	985	1056



LOCAL SUPPORT – WORLDWIDE

The global Noss organization is adapted to the pulp and paper industry’s regional requirements. Through our own offices around the world we provide our customers with service and support close to their operations. Our service engineers regularly service all Noss installations in order to secure optimal operating conditions.

Warehouses in Europe, Asia and North America ensure fast availability of spare parts.



Noss AB
P.O. Box 20
SE-60102 Norrköping
SWEDEN
Telephone +46 11 231500
Telefax +46 11 135923
E-mail info@noss.se

Noss Company
2500 Park Central Blvd.,
Decatur, GA 30035
USA
Telephone +1 770 9819550
Telefax +1 770 9813572
E-mail info@noss.com

Noss Canada Inc.
227-G Brunswick Blvd., Pointe-Claire
Quebec, H9R 4X5
CANADA
Telephone +1 514 6972029
Telefax +1 514 6976068
E-mail info@noss.com

Noss KK
24-11, Kasuga 2-Chome
Bunkyo-ku, Tokyo 112-0003
JAPAN
Telephone +81 3 38118737
Telefax +81 3 38110807
E-mail nosskk@noss.com

www.noss.com