

SPRAYDISC filter

A unique filter for:

- Fiber recovery
- Fractionation
- Washing

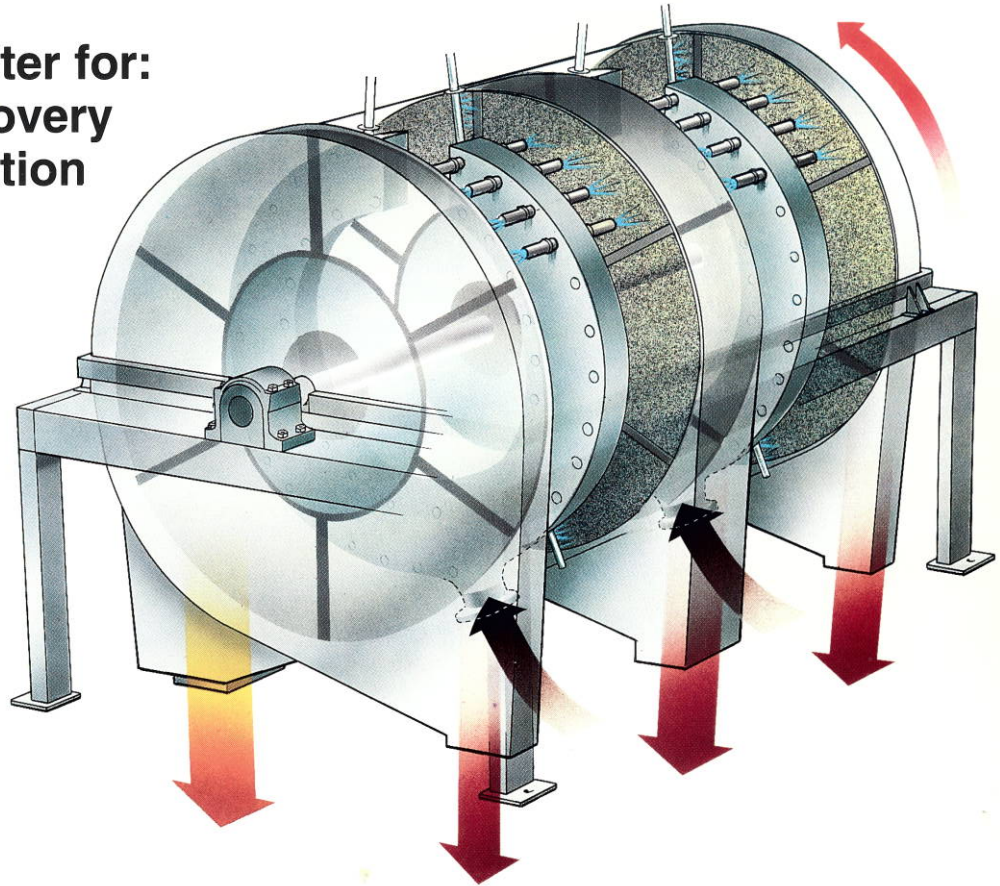


Fig. 1

The SPRAYDISC filter is designed to recover fiber from waste streams by fractionating the good fiber according to fiber length, thickness or stiffness. The filter can wash fillers, inks, and stickies from fibrous streams. One SPRAYDISC, Model SD2, can process up to 2600 GPM. The feed consistency can be as high as 2.0 % for fractionation but cleaner consistency is best for all applications.

How it works

Stock is fed to a central header from which it is sprayed at 15-35 PSI against two rotating filter media discs.

The fiber fraction is retained on the discs, while the fine material passes through them. As the discs rotate at 30-60 RPM, the centrifugal force causes the retained fibers to move radially on the discs and discharge at the periphery. Cleaning showers using filtrate keep the discs clean.

Both the coarse fiber fraction and fines particulate

fractions are discharged from the filter by gravity.

The rotating segments are comprised of stainless steel frames with synthetic filter media mounted on each segment. Multiple segments insure easy service and low downtime.

Equipment variables

Inlet pressure, consistency, filter media size and disc speed can be tailored to each individual application. Fine filter medias and low pressure are used for fiber recovery. Increasing feed pressure maximizes washing efficiency. Large opening filter medias are used to separate hardwood and softwood fiber streams, stiff fibers for refining, or high bleach consuming fines from groundwoods.

The latter effect can also be applied to recycled fiber systems to generate a uniform long fiber pulp that requires less bleach chemical. The same process can generate a short fiber stream easily screenable with ultra-fine slots for the removal of micro-stickies.

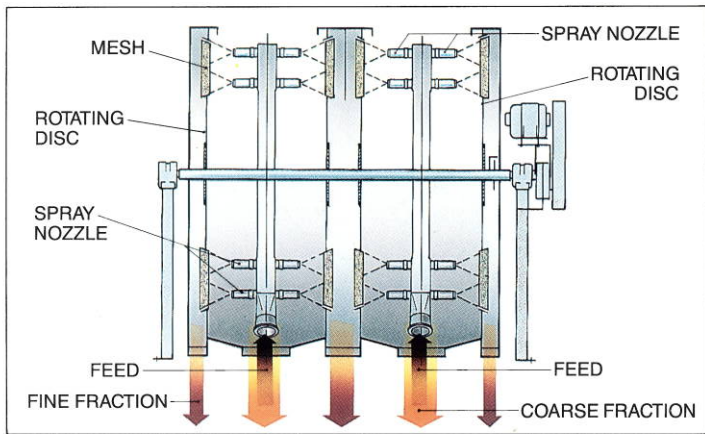


Fig. 2

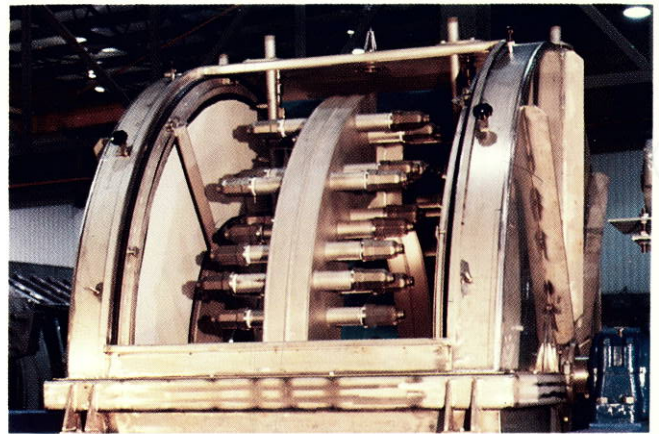


Fig. 3

Technical specifications

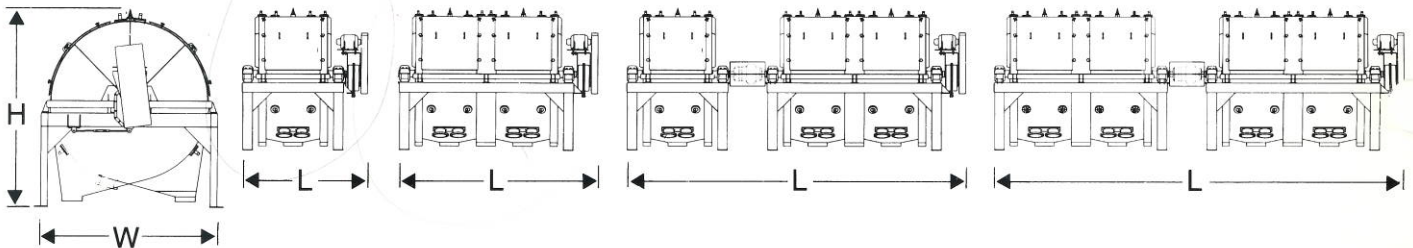
Housing	SS316	Gear box	Shaft-mounted with V-belt drive	Speed	20 - 45 RPM geared from 1200 RPM
Cassettes	SS frames, high open area filter media	Media selection	High open area, sized for application from 100-2000 microns	Operating pressure	5 - 45 PSI
Frame	Painted mild steel			Wash showers	0.8 GPM each @ 20 PSI
				Customer to supply	Motor, AC variable speed drive, foundation

SPRAYDISC sizes SD2

SD4

SD4+2

SD4+4



General dimensions

Model	"W	"H	"L	"L + Motor	Floor Clearance	Head Room	Maintenance Room
SD2	108.3	101.8	75	108.3	0' - 3"	1' - 6"	3'
SD4			132	165			
SD4+2			250	283.5			
SD4+4			309	342.5			

General specifications

Size	SD2	SD4	SD4+2	SD4+4
Power Installed	10 HP, 1200 RPM		20 HP, 1200 RPM	
Disc Speed	20 - 60 RPM			
GPM, Inlet				
Nominal	2,400	4,800	7,200	9,600
Maximum	2,600	5,200	7,700	10,500
Foot Print, SF	77.8	124	213	257.9
Weight Empty, lbs	7,000	11,600	18,300	22,800
Flooded, lbs	15,200	28,500	62,000	79,800
Process Consistency	0.05 - 2.0 % (depending on application)			

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