



# FiberClone & SandTrap

## Fine & Coarse Cyclone Cleaners

The FiberClone/SandTrap is a free vortex type liquid cyclone cleaners, which removes heavier contaminants from paper slurries at consistency ranging from 1.0 to 5.0%. The FiberClone is used for fine heavy contaminants such as glass, metal clips, and sand etc., and it operates in the range of 0.15 to 0.25 MPa pressure drop. The sandTrap operates in the range of 0.05 to 0.1 Mpa pressure drop, it removes stone, nuts, bolt and other large, heavy foreign materials.

For both cleaners, a wide range sizes is available as shown on the specification table.

The reject discharging is available to meet to customers demand, manual, automatic or continuous reject system.

## FEATURES AND BENEFITS

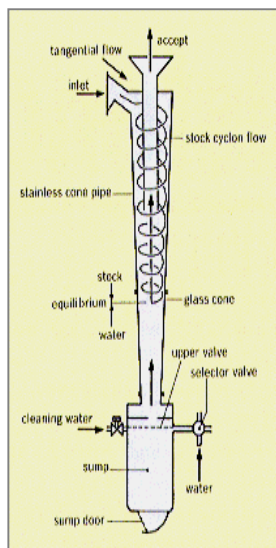
## Applications

- After the pulper for secondary fiber system.
- For refiner and deflaker;  
Protection of refiner plates, deflaking fillings.
- Protection of wearing of screen cylinder.
- Stone and metal removal after the blow tank.
- Sand removal for Chip washer
- Protection of Pulper Detrash equipment.



# FiberClone & SandTRap

## OPERATION



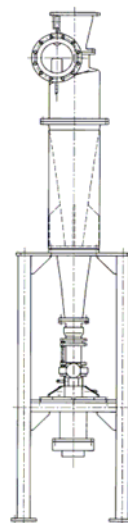
Feed stock enters the FiberClone /Sand TRap through a tangential inlet pipe. The fiberClone's inlet provides a downward slope to accelerate the centrifugal force. The stock spirals downward along the cleaner inside wall toward the small end of the reject cone.

The heavy contaminants are forced to the outer wall by the centrifugal force and carried down to the reject chamber. Just upper the reject chamber, balancing water is introduced to separate good fibers from the heavy contaminants and the good fiber passes back up into the cleaners. The site glass is available only for FC Type Cleaners.

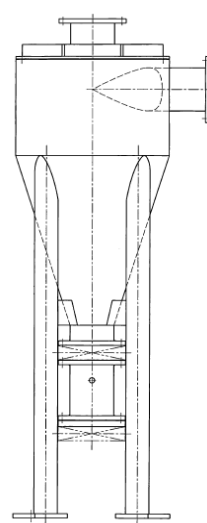
FC05-25



FC40-140



SandTrap



SandTrap, Specification & Through-put

	Total Height	Diameter Vortex	Feed/Acc-epts	Reject	Feed Pressure	Capacity m³/min	
	mm	mm	Pipe Dia	Pipe Dia.	MPa	0.05Mpa	0.1MPa
SND3	2500	Φ750	Φ200	Φ200	0.15-0.20	2	3
SND5	2820	Φ900	Φ250	Φ300	0.15-0.20	4	6
SND7	3050	Φ1000	Φ300	Φ300	0.15-0.20	6	8
SND10	3280	Φ1120	Φ350	Φ300	0.15-0.20	9	11
SND15	3520	Φ1280	Φ400	Φ300	0.15-0.20	14	16

FiberClone, Specification & Through-put

	Total Height	Diameter Vortex	Feed/Acc-epts	Feed Pressure	Capacity m³/min		at Δ 0.25MPa	
	mm	mm	Pipe Dia	MPa	Short F.	Long F.	Short F.	Long F.
FC05	2610	Φ133	Φ150	0.25-0.35	0.5	0.4	0.58	0.45
FC10	2610	Φ133	Φ150	0.25-0.35	1.0	0.8	1.15	0.90
FC15	3206	Φ200	Φ200	0.25-0.35	1.7	1.3	1.85	1.45
FC25	3206	Φ200	Φ200	0.25-0.35	3.1	2.4	3.5	2.7
FC40	3686	Φ370	Φ250	0.25-0.35	4.5	3.5	5.0	3.9
FC60	3686	Φ370	Φ250	0.25-0.35	6.7	5.2	7.5	5.8
FC80	4146	Φ460	Φ300	0.25-0.35	9.0	7.0	10.0	7.8
FC100	4570	Φ500	Φ350	0.25-0.35	11.2	8.7	12.5	9.7
FC120	5010	Φ540	Φ390	0.25-0.35	13.5	10.5	15.0	11.7
FC140	5570	Φ575	Φ390	0.25-0.35	15.7	12.2	17.5	13.6



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# Low Consistency Cleaner

## Fine & Coarse Cyclone Cleaners

Low Consistency Cleaner "AT" Series are latest developed Centri Cleaner that remove heavy contaminants from the stock around 1% consistency.

Feed stock is installed tangentially from inlet pipe to the Cleaner Cone. The Inlet head provides a downward slope to accelerate the centrifugal force. The stock spirals downward along the cleaner inside wall toward the small end of the reject cone.

The heavy contaminants are forced to the outer wall by the centrifugal force and carried down to the reject.

### FEATURES AND BENEFITS



Multi-Function Cleaner :  
Model AT-60MF

### Applications

- Low consistency cleaning at stock preparation system.
  - Deinking system and Secondary fiber system
  - Fiber recovery system and other stock preparation systems
- Improvement for product cleanliness



# Low Consistency Cleaner

## ADVANTAGES

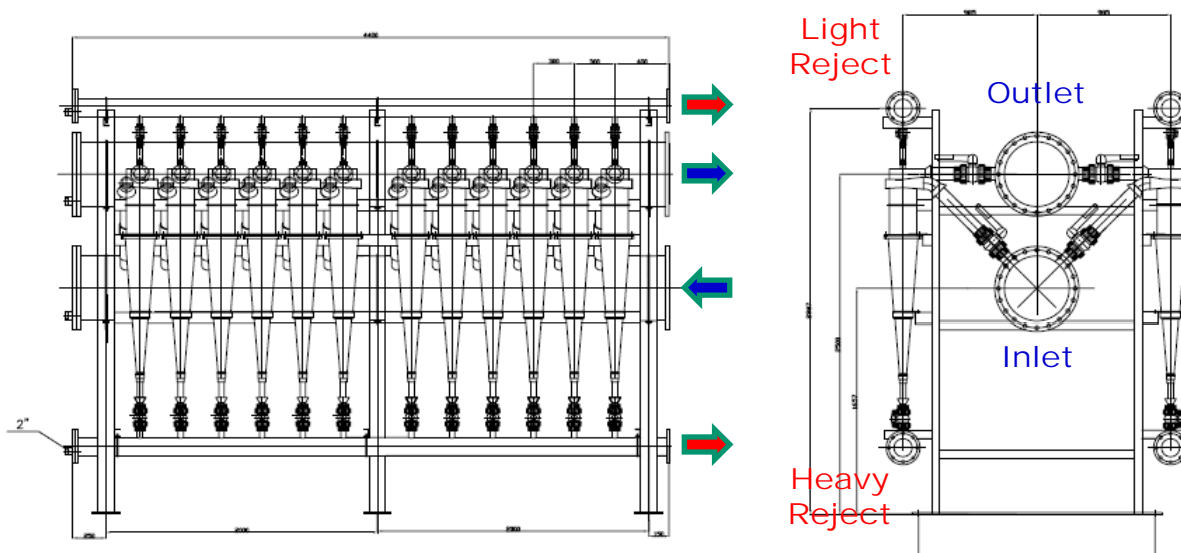
Optimized shape of Inlethead makes the stock flow accelerated efficiently. It makes the stock cyclone optimized by lower pump load.

The unique designed Cone sharp body and Reject cone increase the heavy contaminants removal efficiency, and reduce the pressure drop by the cleaners.

Reject fiber recovery system reduces the fiber losses. It consists of extra cone and dilution water(without extra pump).



Final Stage Cleaner (with dilution unit)



AT-MF - Multi Function Cleaner, Specification & Through-put

	Capacity / pce	Consistency	Feed Pressure	Pressure Drop
	Litter/min	%	kPa	kPa
AT-15-MF	225-250	0.6-1.2	200-350	100-150
AT-30-MF	450-500	0.6-1.2	200-350	100-150
AT-60-MF	900-1000	0.6-1.2	200-350	100-150

AT - Heavy Reject Cleaner, Specification & Through-put

	Capacity / pce	Consistency	Feed Pressure	Pressure Drop
	Litter/min	%	kPa	kPa
AT-15	225-250	0.6-1.2	200-350	100-150
AT-30	450-500	0.6-1.2	200-350	100-150
AT-60	900-1000	0.6-1.2	200-350	100-150



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