



HyperCell

High Performance Flootation Cell



FEATURES AND BENEFITS

The HyperCell is the latest Floatator for deinking plant developed by Aikawa. It consists of a floatation tank, a high speed rotating turbine and a air supply tube. The air supplied through the air tube is distributed by the turbine that rotates at high speed, and a lot of small bubbles are created.

Thank to the turbine rotating at high speed, air quantity that can be introduced in the floatation tank is about two to six times greater than that of conventional floatators. The standard G/L figure (Air quantity/Liquid quantity) of the HyperCell is about 5 to 7, while that of the conventional floatator is only about 1.5.

The retention time of the Hypercell is much longer than the conventional floatator. It is designed to be about 15-20 minutes, making its brightness gain and ink removal performance far superior than that of any other conventional floatators

Benefits;

1. Three to six more air is supplied by our floatation cells compared to conventional ones.
2. Lots of small bubbles created by the high speed air distributor.
3. Stable operation and easy maintenance.
4. Excellent efficiency for ink removal and brightness gain.
5. Reasonable initial cost and low operation cost.



Applications

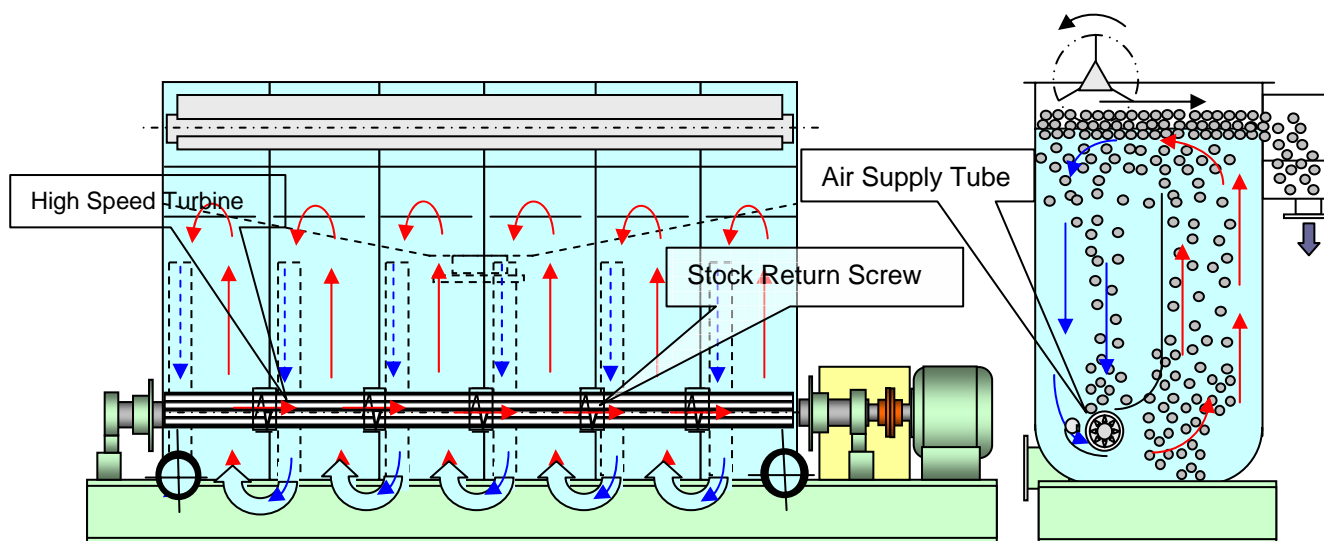
- Ink removal at the deinking plant.
- Fine contaminant removal following hot disperser.
- Filtrate cleaning (Filtrate floatation).

Excellent Floatation "HyperCell"

The HyperCell is divided into four sections, each of which works as an individual floatator. A turbine, located at the bottom of the cell, rotates at high speed to distribute the air around the sections, creating lots of small air bubbles. The air bubbles float upward and absorb the ink. The stock is separated from the air bubbles at the upper part of each section and drifts into the next floatation cell.

A pumping screw that rotates along with the turbine returns part of the stock to the primary floatation cell and mixes it with the air once again. This process is repeated four times, through each of the sections. The amount of air introduced into the cell is quite high compared to the conventional floatators, and results in a superior floatation performance.

OPERATION



Standard Specification & Capacity of HyperCell

Model	Effective Volume	Cell Size W x L x H	Installed Motor	Capacity		Retention Time	Air Volume Nm ³ /min
				Ton/Day	M ³ /min		
HYP05	5m ³	1.5x2.3x2.5	7.5kW	5	0.35	15 min.	1-3.5
HYP10	10m ³	2.0x2.5x3.5	15kW	10	0.70	15 min.	2-7.0
HYP25	25m ³	3.0x3.5x4.0	22kW	25	1.70	15 min.	5-17.0
HYP50	50m ³	3.5x5.5x4.5	45kW	50	3.50	15 min.	10-35.0



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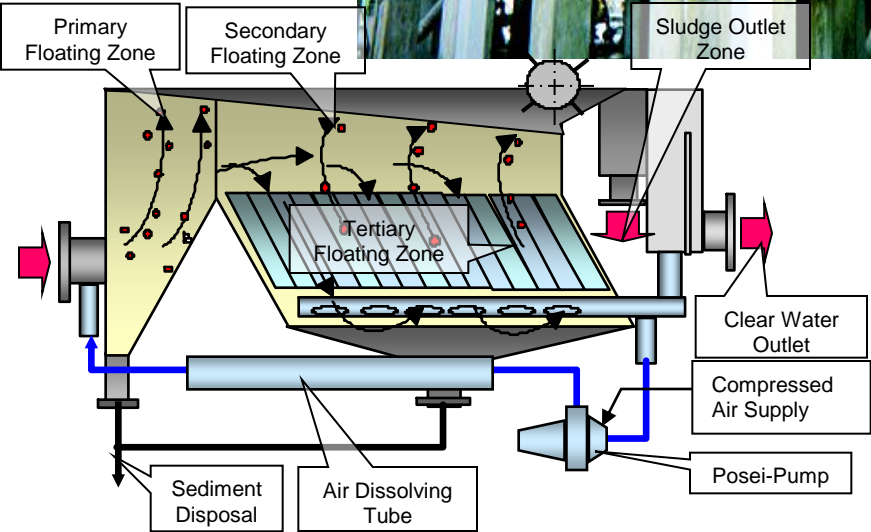
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Poseidon “Model-PPM” DAF

Principal Description

The Poseidon Dissolving Air Floatation (PPM-Cell) is the most compact and the most efficient clarifier, which removes solid materials from filtrate of thickening & dewatering equipment of the stock preparation processes. It is also used to clean up the wahite water of the paper machine.



Standard Specification & Capacity of Poseidon PPM DAF

Flow Rate	Model	Dimension			Installed Motor
		Length	Width	Height	
200 m³/h	PPM200	6,400 mm	2,640 mm	4,110 mm	22KW-4P
300 m³/h	PPM300	6,400 mm	3,860 mm	4,110 mm	30KW-4P
400 m³/h	PPM400	10,900 mm	2,640 mm	4,110 mm	55KW-4P
500 m³/h	PPM500	10,900 mm	3,250 mm	4,110 mm	55KW-4P
600 m³/h	PPM600	10,900 mm	3,860 mm	4,110 mm	55KW-4P
700 m³/h	PPM700	10,900 mm	4,470 mm	4,110 mm	55KW-4P
800 m³/h	PPM800	10,900 mm	5,080 mm	4,110 mm	75KW-4P



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AIKAWA High Speed Washer

High Speed Washing Thickener



FEATURES AND BENEFITS

AIKAWA high speed washer can perform efficiently several functions as like removing additive agents such as ash and other contaminants, washing and thickening stock up to 15% consistency. In addition to these functions, it also can separate short fibers and improve paper strength. Although it consists of a compact structure, it has high throughput by high speed dewatering with an endless wire.

Benefits;

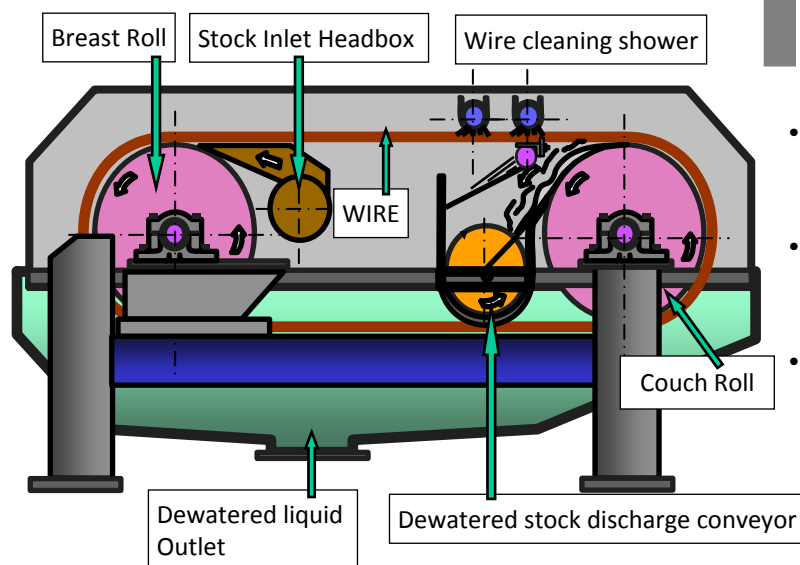
1. Efficient removing additive agent in the Deinking process.
2. Washing, Efficient separating short fibers & Improving paper strength in the OCC process.
3. Large throughput with compact structure and space.
4. Clean environment without noise due to the sealed structure.
5. Easy wire change by using special Jig.

Applications

- Removing ash & other contaminants from a variety of furnishes.
- Efficient Washing
- Fractionation & improving paper strength in the OCC treatment
- Thickening up to 15%



AIKAWA High Speed Washer



ADVANTAGES

- Wire trimming equipment
Wire trimming & easy fixing the parallelism of the wire are available
- Removable headbox & individual nozzle type
can keep it clean and prevent from contamination problem.
- Much longer life & less contamination of wire
due to combination of Dual shower & Special shower.

Operating Principle & advantages:

The stock fed from the headbox is dewatered by means of synthetic wire and sent to the deep grooved breast roll and wire where it is washed and dewatered efficiently. After that the stock travel to the couch roll where it is dewatered a second time by both nip pressure and centrifugal force, thickening the stock up to 15% consistency. Finally, the stock is removed by doctor from the couch roll into a screw conveyor which discharges the stock from the washer

Capacity (Production Rate) Table

Type		35	100	200	250	300
Motor	(KW)	18.5	30-37	45-55	75	75
Roll Dia.	(mm)	800	800	800	1030	1030
Roll length	(mm)	406	1067	1930	2500	2945
Machine length	(mm)	3344	3344	3344	4372	4372
Machine width	(mm)	1829	2641	3328	4550	5371
Machine height	(mm)	2024	2024	2024	2314	2314
Throughput(ADT/D)	ONP	34	98	196	245	294
(Inlet3%)	OCC	40	114	228	285	342



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