WATER TREATMENT & HYDROCYCLONES

Turbid water treatment and particle material

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CH Clarifier Densifier

- Minimum infrastructure for low installation costs
- Adjustable oscillating scrapers for optimizing sludge density
- Central mixer for pre expulsion sludge homogenizing
- Angled sludge guide to ease the suction load of the evacuation pump
- ELKAYAM produced computerized polyelectrolyte dosing system – precise and practical
- Clarified water complies with the “Merli” law

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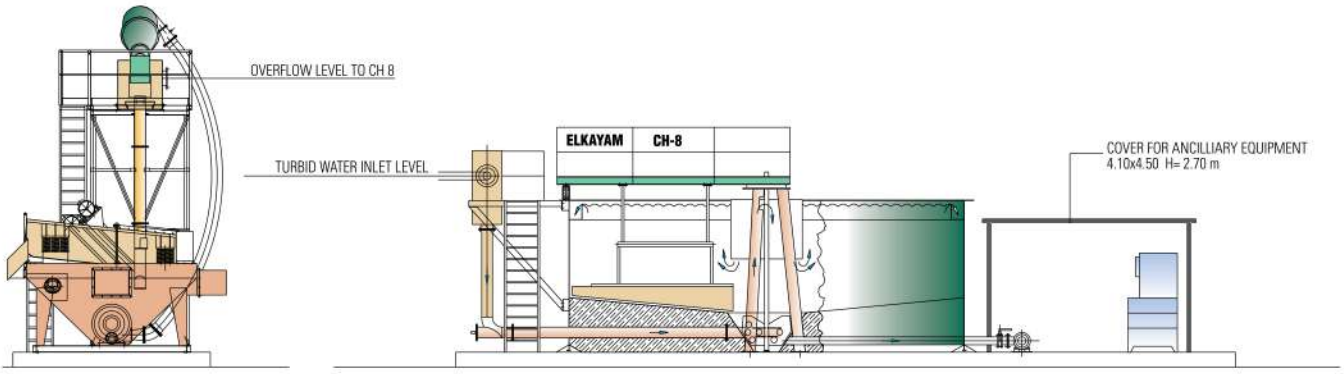
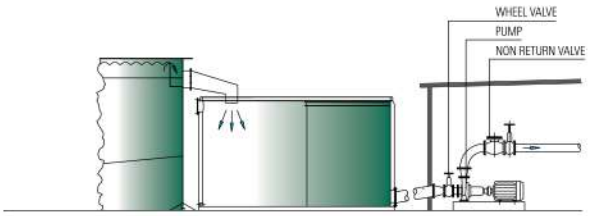
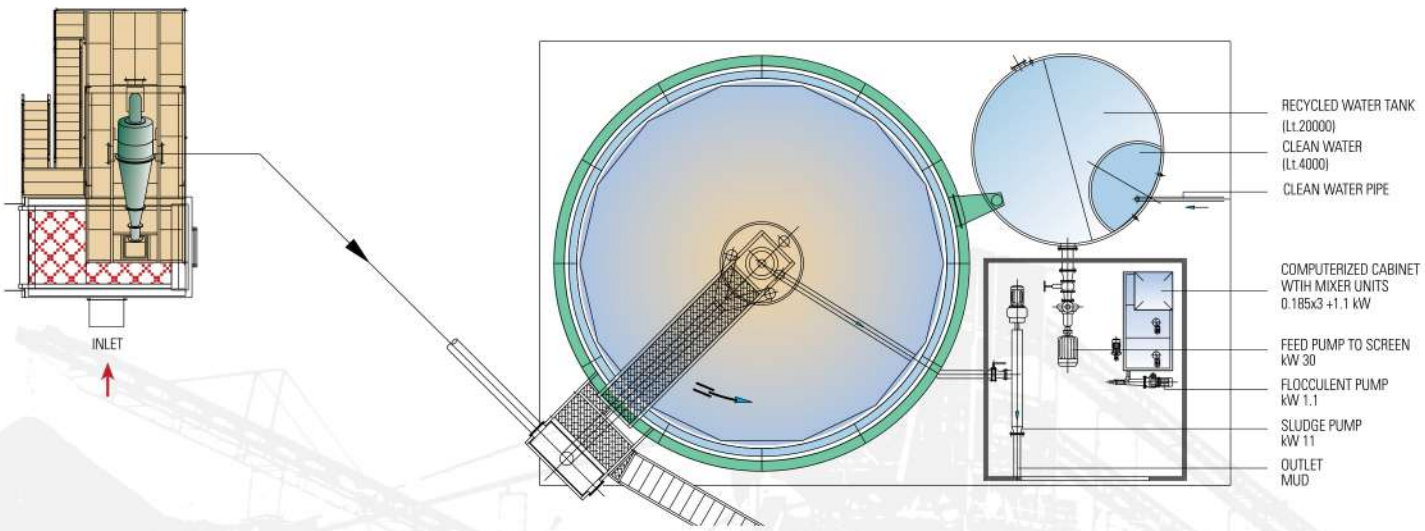






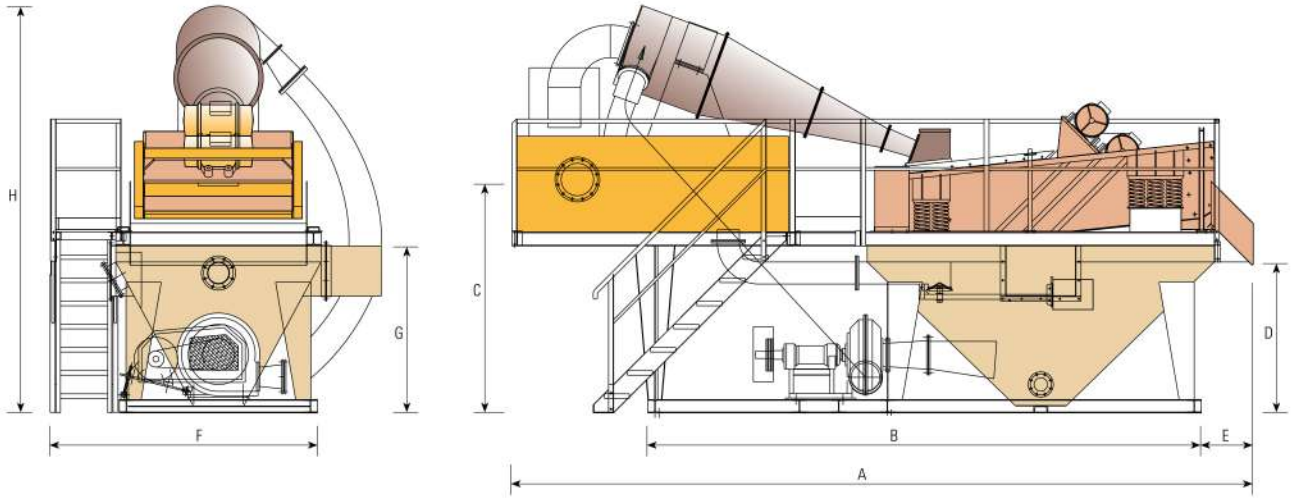
CH Clarifier Densifier

General Specifications

Model	Max. turbid load	Ideal load	Cleansing tank	Height of turbid water entry	Power required - Sludge Pump	Power required - Clean Water Pump	Power required - Bridge and Polyelectrolyte
Units	**m³/hour**	**m³/hour**	**ø meters**	**meters**	**Kw ~**	**Kw ~**	**Kw ~**
CH-3	20	16	3	5	5.5	7.5	3
CH-4.5	50	40	4	8	7.5	11	3
CH-6	100	80	6	3	11	22	3
CH-8	190	150	8	3.5	15	37	4
CH-10	290	230	10	4	15	45	4
CH-12	420	330	12	4.5	22	55	4
CH-14	570	452	14	4.5	15+15	55	5
CH-16	750	600	16	5	15+15	37+37	5
CH-18	900	720	18	5	22+15	45+45	5
CH-24	1300	1100	24	5.5	22+22	75+75	5

GS series Hydrocylones

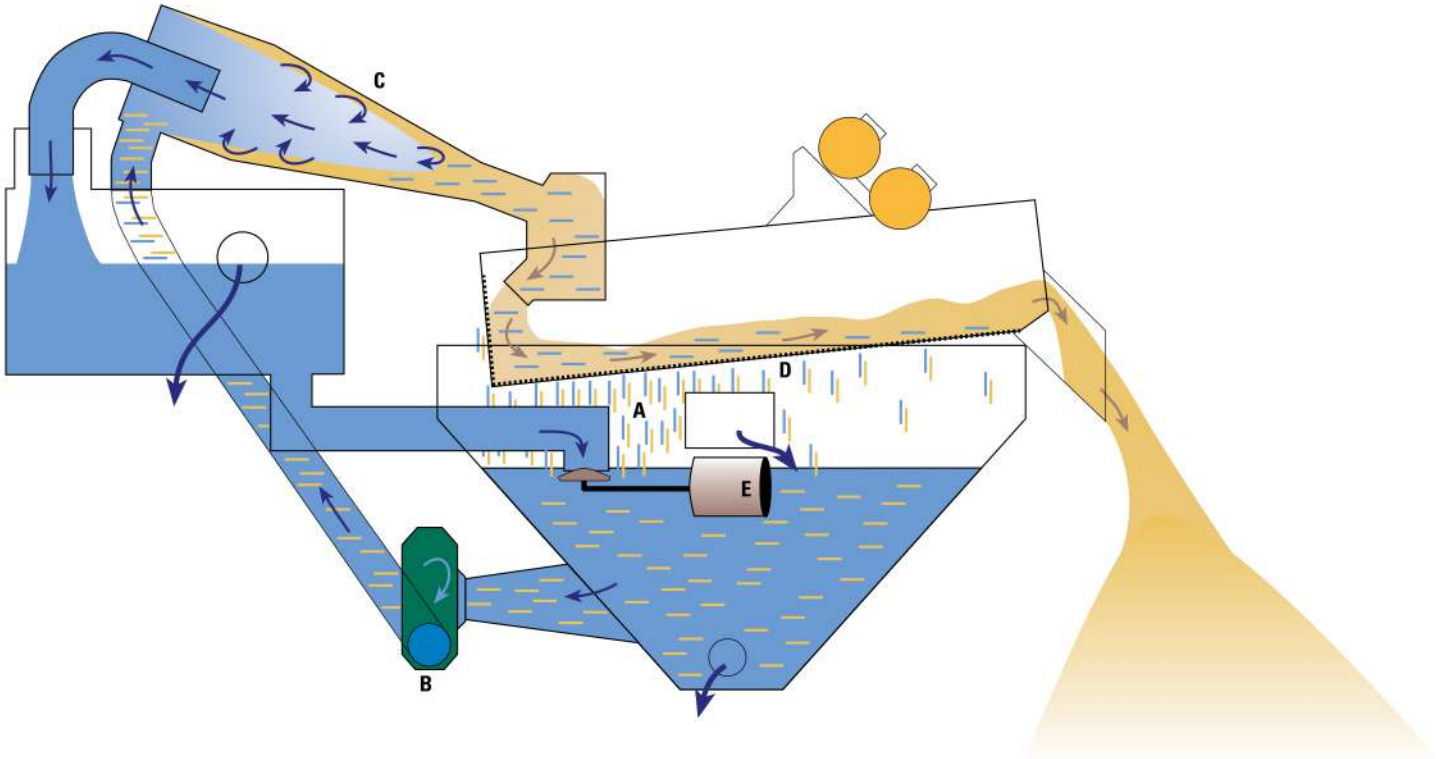
- High output recovery
- Easily replaceable cyclone wear parts for fast maintenance turn around
- Sturdy design in either horizontal or vertical configuration
- Special Linatex thick coated centrifugal pump
- High efficiency water separation drying screen
- Range of custom matched feeder screens to suit material where required

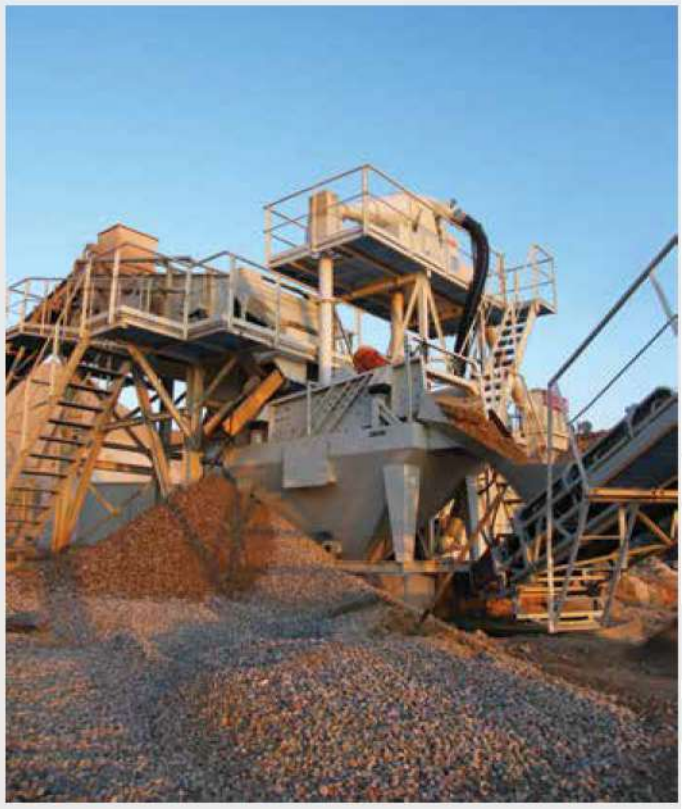


General Specifications

	Sand recovery output	Turbid water treatment capacity	Pump power	Vibrator power	Weight								
Model	**m³/hr**	**m³/hr**	**Kw**	**Kw**	**Kg**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**
GS 100/425/140	20	150	15-18.5	1.6+1.6	3300	4250	3500	1800	1050	450	2300	1160	2750
GS 100/425/225	30	150	18.5	2.2+2.2	4200	3880	2650	2200	1470	500	2880	1660	3230
GS 150/550/140	25	210	22	1.6+1.6	3800	4960	3750	1800	1500	450	2300	1660	2950
GS 150/550/225	35	210	30	2.2+2.2	4600	5420	4250	2280	1470	500	2630	1660	3470
GS 150/550/300	40	210	30	2.2+2.2	6000	5420	4250	2280	1470	500	2630	1660	3470
GS 200/675/300	50	330	37	2.2+2.2	7100	6000	4400	2300	1470	500	2950	1660	3800
GS 200/675/360	65	330	37-45	3.6+3.6	8600	6500	4800	2300	1470	500	2950	1660	3800
GS 200/675/450	80	330	37-45	6+6	7500	6500	4800	2300	1470	500	3150	1660	3800
GS 200/800/360	65	420	45	3.6+3.6	9000	6500	5500	2300	1470	500	2850	1660	4050
GS 200/800/450	80	420	45	6+6	11200	7300	5500	2300	1470	500	3150	1660	4050
GS 250/800/450	100	480	45	6+6	10200	7300	5500	2300	1470	500	3150	1660	4050
GS 200/800x2/630	130	720	55-75	11	11700	8250	6000	2750	1470	500	3150	1660	4350

Functioning of the Hydrocylone

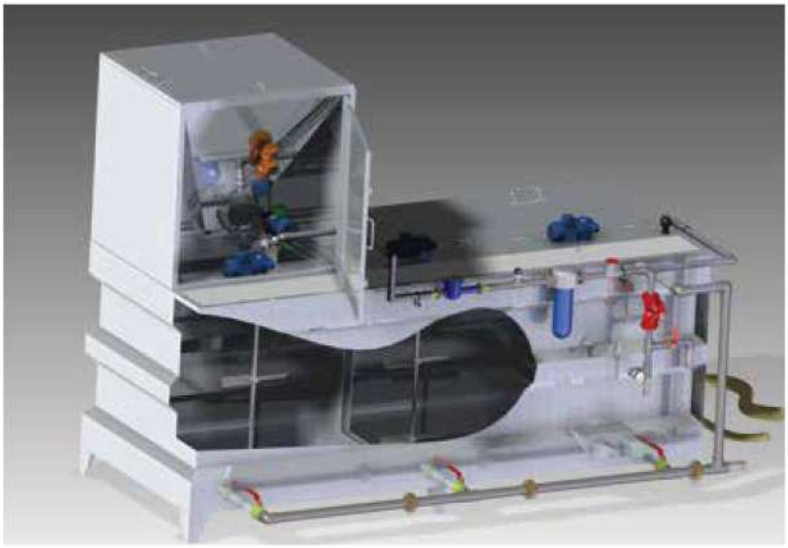




The water-sand-lime mixture is introduced into basin A.
Pump B aspirates the water –sand-lime mixture from the bottom of basin A and sends it in a pressurized stream to cyclone C which, by cyclonic centrifuging, separates the clay, lime and the filler of the concentrated sand.
The concentrated sand comes out of the top of the cyclone and ejects to the drying screen D which removes the water from the sand which then moves to the unloading chute.
The mixture level in the basin A is stabilized by float E which opens and shuts the valve for the mixture (sand and water) recovery and keeps it at a constant level so as to ensure the pump cannot run dry

Poly-Electrolyte systems

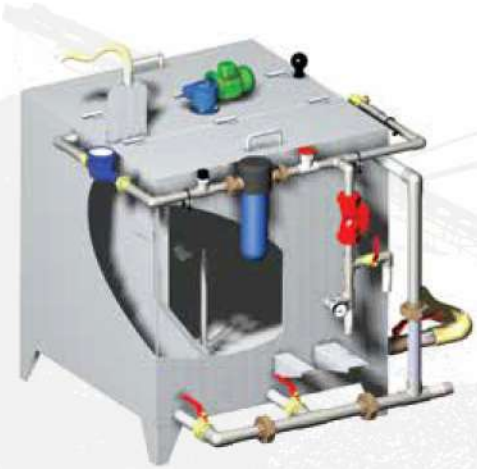
- Durable stainless steel construction
- Easy access for all maintenance requirements
- Fully computerized integrated feed system.
- Polyelectrolyte metering
- Multiple stirrer mixing tanks for fast cycle time.
- Custom matched to the system.



PES 3000

Poly-flocculant dosing units

	For a system capacity of m^3/hr	No. of cells	Tank capacity ltrs	No. of stirrers	Kw	Kg (full)	Width Cm	Length Cm	Height Cm	Remarks
PEL 1000	60	1½	1000	1	1	1250	100	100	120	For liquid polyelectrolyte
PEL 2000	400	3	2000	3	2.5	2700	110	220	130	For liquid polyelectrolyte
PES 2000	400	3	2000	3	3	4220	110	220	230	For powder polyelectrolyte
PES 3000	1200	3	3500	3	4	4400	130	300	230	For powder polyelectrolyte



PES 1000

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