



Clarifier/Thickener

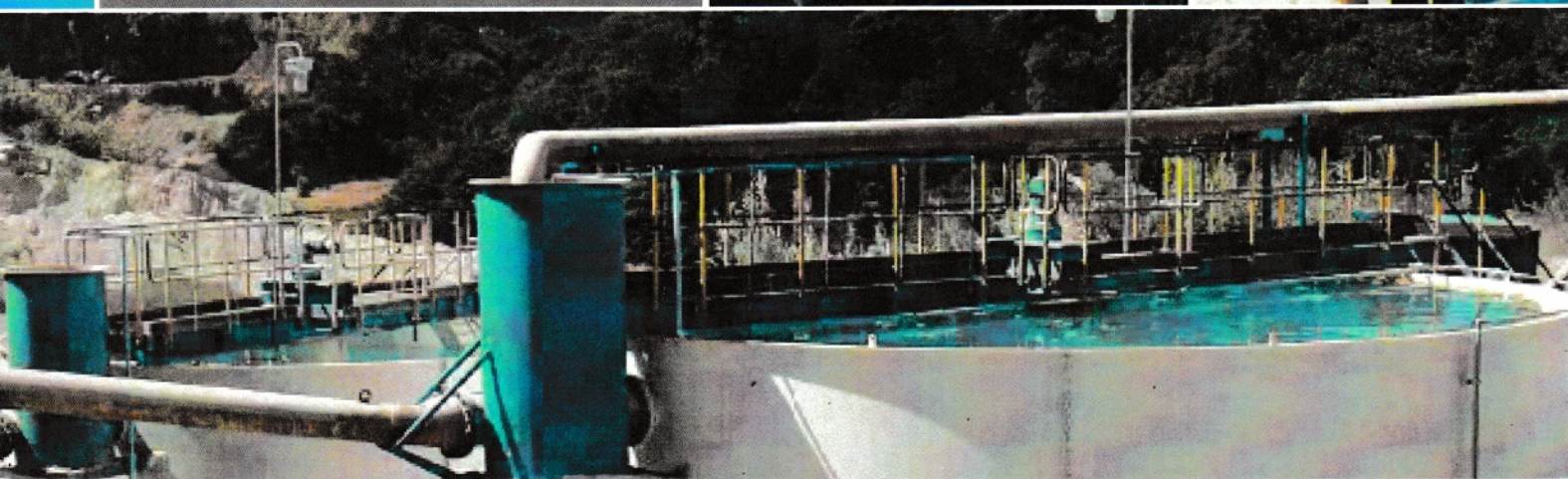


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HYDROSILT CLARIFIERS/THICKENERS

are used for the treatment of effluents from run-off and waste water generated in the washing process of mineral ores, as well as sands and aggregates used by various industries. Sludge, clay and fine particles, aided by the addition of a chemical reagent (flocculant) to precipitate settlement, and are filtered through a fluidized bed of solid sediments drawn to the bottom by a rake mechanism and subsequently pumped out of the tank. The clarified water is discharged through the tank overflow launder.

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CONSTRUCTION

The tanks are fabricated from mild steel, with protective paint, as a bolted, modular assembly, supported on a series of steel columns, and fitted with a visual inspection panel to monitor the interface. The drive assembly, mounted on the thickener bridge, consists of a gear motor coupled to a central shaft that rotates the rake mechanism. Optionally, the tank may be installed on a concrete slab.

All clarifiers/thickeners are equipped with different devices to optimize operation and ensure effective regulation of the process variables. Optional accessories include a device for lifting the rake to protect the drive system. The flocculant dosage can be controlled by means of the AMP automatic system device, CONVES, which measures the quality of clarified water and maximises thickener tank performance.

The flocculant preparation and dosage unit ensures effective regulation and a high sedimentation rate in the tank, by automatically and accurately controlling the amount of polyelectrolyte (flocculant). This system comprises a hopper for the powdered chemical, a dosing unit and preparation storage and decanting tanks with their respective electric stirrers. The entire stainless steel assembly features a dosage pump and electrical switch board.

Type	Surface m ²	Height mm	Weight (t)		Drive Motor kW	Feed Capacity m ³ /h
			Empty	With Load		
TC 01	1	1.300	0,6	2,1	0,25	4 - 8
TC 02	3	1.730	1,1	8,1	0,37	16 - 31
TC 03	7	2.150	3	23	0,55	35 - 71
TC 04	13	2.530	5	44	0,55	63 - 126
TC 05	20	2.750	8	74	0,75	98 - 196
TC 06	28	3.210	10	118	0,75	141 - 283
TC 07	38	3.490	13	175	1,1	192 - 385
TC 08	50	3.630	17	232	1,5	251 - 503
TC 10	79	4.250	23	401	1,5	393 - 785
TC 12	113	4.520	39	596	1,5	565 - 1.131
TC 14	154	4.350	57	861	2,2	770 - 1.539
TC 16	201	4.470	70	1.130	3	1.005 - 2.011
TC 18	254	4.880	89	1.586	3	1.272 - 2.545



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in association with:

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