

Dissolved air flotation unit FLOT T

PRINCIPLE

The SERINOL flotation unit FLOT T is a longitudinal separator with cross flow.

Micro bubbles of air come to adhere on a particle to form a unit lighter than water, therefore floating.

An especially adapted unit of pressurisation allows the dissolution of air followed by the production of these micro bubbles at the time of the phase of expansion.

The size of the produced micro bubbles (30 to 50 microns) ensures an excellent buoyancy of the matters to be separated. The dimensioning of the devices is defined to respect a maximum climbing speed of $4\text{m}^3/\text{m}^2/\text{H}$.

Flow crosses a packing, located at the head of the apparatus, which supports a fast separation of the largest sedimentary or floating matters. The slowest particles are separated in the zone of completion.

A scraping system with a temporised motor reducer scraps the floating matters towards a chute of evacuation.

The hydrostatic pressure through a manual valve, evacuates the sediments accumulated on the inclined bottom.

This type of apparatus is particularly adapted to the processing of strongly charged effluents.

DESIGN FEATURES



304 stainless steel casing, with internal lamellar pack and anti-swirl surface grid.

Pressure system:

Controlled injection of air to the aspiration of a pump, which reverses in a tube of pressurisation. This tube is provided with valves to purge the excess of air and to inject the water pressurised at the entry of the flotation unit. Pneumatic casing including, a flow rate meter and a pressure control component.

Foam scraping system:

- moto-reductor - stainless steel conveyor chain with polyethylene rollers
- stainless steel oil gearwheel and driving axes - shaped stainless steel scrapers and polyethylene blades

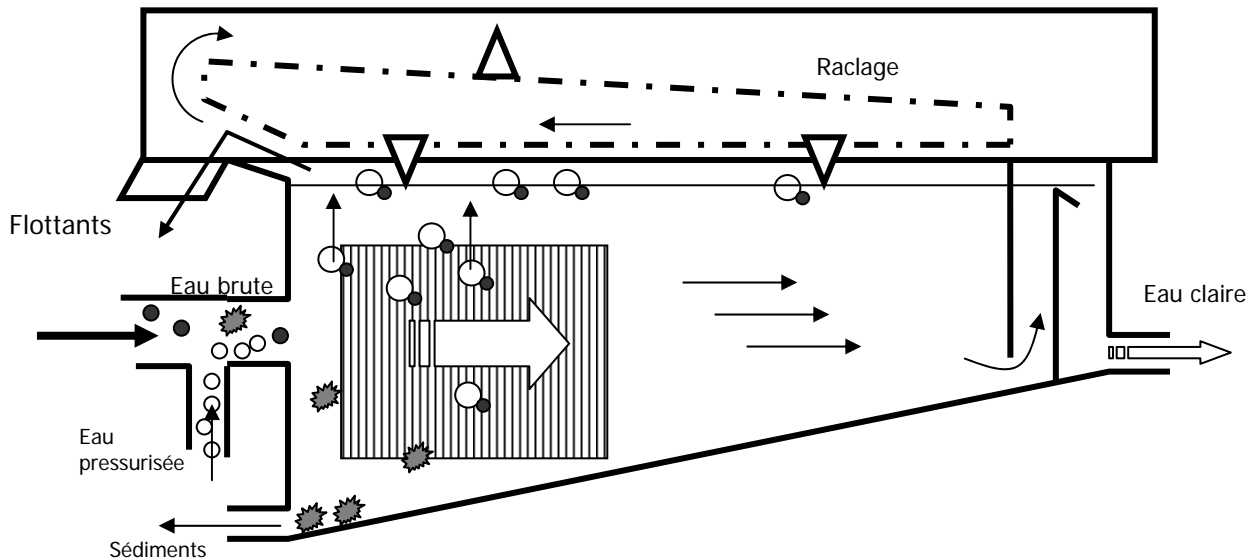
Electric panel: - manual or automatic control- motors securities - adjustable temporisation for the functioning of the scrapers.

APPLICATIONS

- Food industry: slaughter-houses, canning facilities, dairies, separation of greases...
- Paper industries - Chemical Industries - Mechanical engineering industries - Urban effluents

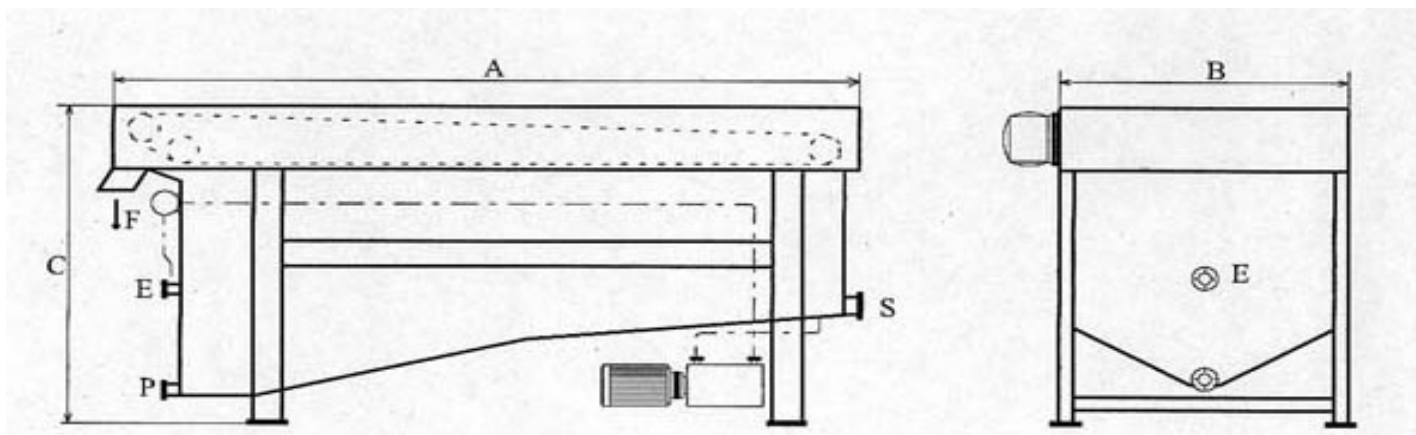
OPTIONAL EXTRA

_Rotating sieve SERTAM at the entry - Footbridge with guardrail and ladder – Flocculation unit



CAPACITES & DIMENSIONS

TYPE	T2	T7	T10	T15	T20	T30	T40	T50	T60	T70	T80	T100
Capacité m3/h	2	7	10	15	20	30	40	50	60	70	80	100
Surface utile m2	1	1.75	2.5	3.75	5.4	7.56	10.1	12.5	15	17.5	20	25
Volume utile m3	1.1	1.92	3.12	4.7	7.3	10.2	16.1	16.3	19.5	22.8	26	32
Temps de séjour mn	33	16.5	18.7	18.8	21.9	20.4	24.2	19.56	19.5	19.65	19.55	19.5
Entrée effluent E DN	65	65	80	80	80	100	100	100	150	150	150	200
Sortie effluent S DN	100	100	100	100	125	125	150	150	200	200	200	250
Sortie flottants F	Goulotte ou tube											
Vidange-purge P DN	80	80	80	80	80	80	80	80	80	80	80	80
Longueur A mm	2030	2520	2770	3770	3830	5030	5150	6210	7300	8370	9480	11480
Largeur B mm	1200	1200	1450	1450	2000	2000	2600	2600	2600	2600	2600	2600
Hauteur C mm	1950	1950	2300	2300	2500	2500	2800	2800	2800	2800	2800	2800



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