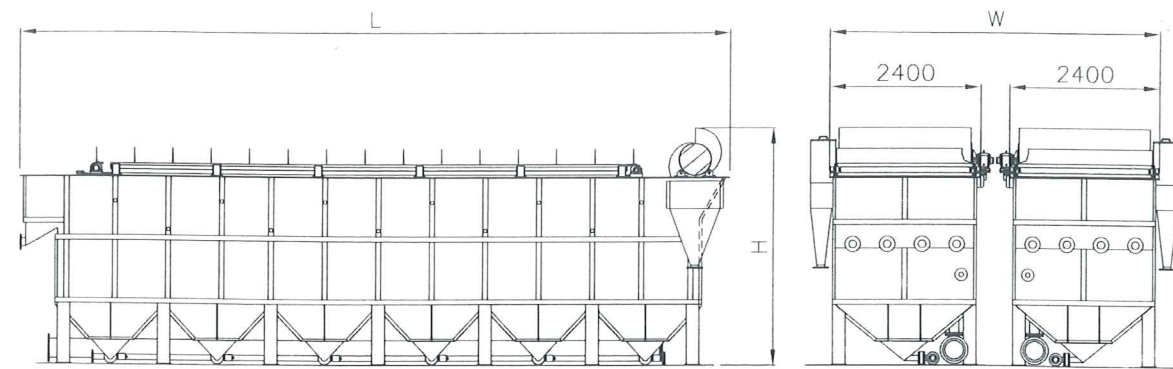


APPLICATION FIELDS

Paper and board machine: back water clarification, fibres recovery;
Clarification of paper mill waters coming from fractioning and thickening filters; effluent clarification;
Removal of stickies and dissolved contaminants;
Biological plants water clarification and biological activated sludge thickening.

MOREOVER:

Mining Industry; Chemical and Pharmaceutical Industry; Textile Industry; Food Processing and Canning Industry; Dairies; Abbatoirs;
Breweries; Wineries; Beverages Industry; Oil Refineries; Tanneries; Industrial Laundries; Potable water plants; Municipal and
Industrial sewage treatment plants.



MODEL	LENGTH L(m)	WIDTH W(m)	HEIGHT H(m)	FLOW Q(mc/h)
TF1	2,8	2,0	2,8	40
TF2	4,4	2,0	2,8	70
TF3	6	2,0	2,8	110
TF 4	4.5	2.4	3.8	140
TF 5	5.4	2.4	3.8	185
TF 6	6.2	2.4	3.8	225
TF 7	7.1	2.4	3.8	270
TF 8	7.9	2.4	3.8	310
TF 9	8.8	2.4	3.8	355
TF 10	9.6	2.4	3.8	400
TF 11	10.5	2.4	3.8	445
TF 12	11.3	2.4	3.8	485
2 TF 7	7.1	5.3	3.8	540
2 TF 8	7.9	5.3	3.8	620
2 TF 9	8.8	5.3	3.8	710
2 TF 10	9.6	5.3	3.8	800
2 TF 11	10.5	5.3	3.8	890
2 TF 12	11.3	5.3	3.8	970
3 TF 9	8.8	8.2	3.8	1065
3 TF 10	9.6	8.2	3.8	1200
3 TF 11	10.5	8.2	3.8	1335
3 TF 12	11.3	8.2	3.8	1455
4 TF 10	9.6	11.1	3.8	1600
4 TF 11	10.5	11.1	3.8	1780
4 TF 12	11.3	11.1	3.8	1940



FLOTATION UNITS

TIGERFLOAT

Tipo-Lito Boschetti - S. Bonifacio (VR)

TIGERFLOAT IS A PRODUCT BY O.M.C. ACQUA ENGINEERING DIVISION



O.M.C. COLLAREDA S.r.l.
36015 SCHIO (VI) ITALY - Via Lazio, 10
Tel. +39 0445 575281 - Fax +39 0445 575302
www.omc-collareda.com - info@omc-collareda.com



TIGERFLOAT

WHY TIGERFLOAT HAS BEEN DESIGNED

O.M.C. has been designing, manufacturing and installing water treatment systems for 20 years.

After a market survey, the exigence to apply the floatation technology using a parallelepiped shaped equipment is strongly arisen, above all to satisfy the requests of those customers having the available spaces foreseen for the installation narrow and reduced.



TIGERFLOAT

TIGERFLOAT is a high performance and modern conception clarifier.

The name perfectly describes the machine with its dynamic and supple design, even aggressive against the hardest effluent to be treated. In our **TIGERFLOAT**, differently to the more traditional floatation systems with a circular tank, the separation of the substances to be removed takes place thanks to the application of the advanced technology of the fluids passing into a laminated pipe system. Very good results are obtained adding the air saturation reactor (A.S.R.) which is a tested and reliable equipment.

FEEDING OF TIGERFLOAT AND WORKING PRINCIPLES

The application of the laminated pipe system needs the effluent to be treated flows from the top to the bottom of the machine while, in the meantime, the release of air micro bubbles, which are created in the high efficiency pressurisation reactor called A.S.R. and mixed with the water to be treated, causes an ascending flow which carries with it the flocs to the surface forming a layer of floated material; contemporary the cleared water falls down to the bottom in countercurrent.

The previous dosage of coagulant and / or flocculant products, allowing the collection of the suspended or dissolved particles, is quite "routine" and is valued one's way according to the specific application and the analysis made in a qualified laboratory.

We underline that **TIGERFLOAT**, thanks to the A.S.R. reactor, can work with the recycle or partial or total pressurisation mode, as in the A.S.R. no porous part or diaphragm or plastic item, which can clog treating the fluids or effluents having a high quantity of total suspended solids, is mounted.

A special pre-chamber allows the mixing of the inlet flow coming from the main feeding pipe, then, the water flows in to the tank where the flotation process starts.

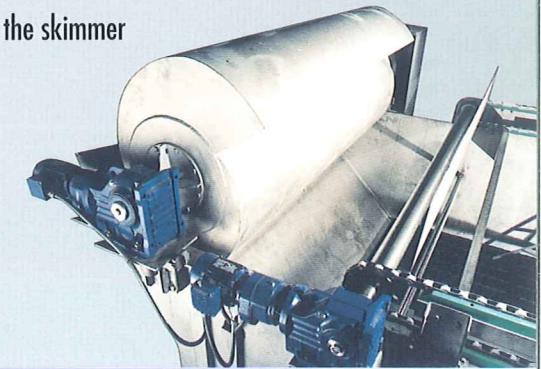


REMOVAL OF THE SUSPENDED SOLIDS

The floated sludge is continuously pushed on by means of a stainless steel surface paddles system and picked up by a special skimmer which drains it to its stocking tank, from where it is purged by gravity or a pump.

In the bottom of the **TIGERFLOAT** there are some sumps to collect the possible settled sludge, which is drained by some pneumatic valves driven by the related programmable timers.

The thickness of the floated material can be easily controlled as the stainless steel paddles and the skimmer are driven by two independent gear motors, allowing an adjusting speedness, by means of the related inverters.

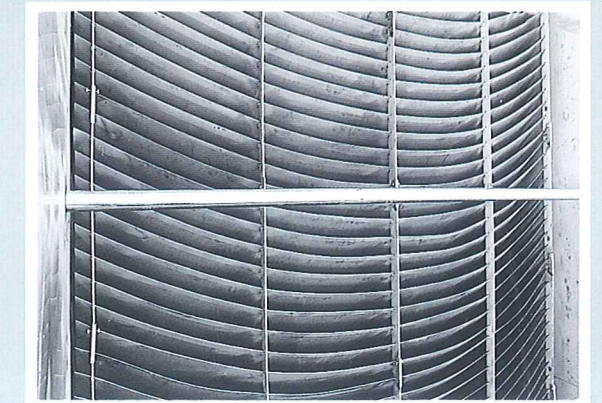


CLEARED WATER

The cleared water drains from the bottom of the **TIGERFLOAT** and is carried away by means of some transversal pipes mounted at a fixed height; on the related external collector a modulating electropneumatic valve is assembled, as it is an integrant part of the level adjusting loop together with the level transmitter and the electronic controller.

MAIN ADVANTAGES OF TIGERFLOAT

The technology used to design **TIGERFLOAT**, based on the application of the fluid flowing into the laminated pipe system together with the rectangular shaped tank of the machine, allows an optimal usage of the space, keeping the same volume of the water to be treated compared to the traditional systems; for example the **TIGERFLOAT** mod. TF 9 (2400 x 8800 mm dimensions) can treat up to 355 m³ / h of water containing 1500/2000 ppm of suspended solids, granting a removal efficiency up to 99 % covering a space of just 21 m².



MANUFACTURE

The machine is really reliable and strong, with its stainless steel tank, totally self-supporting, designed to last for a long time.

MODULAR UNITS

Each **TIGERFLOAT** system can be considered as the reduplication of many basic units (modules) perfectly equal, assuring a total linearity and a great manufacturing easiness. Therefore they are available in several models according to the customers' demands.