

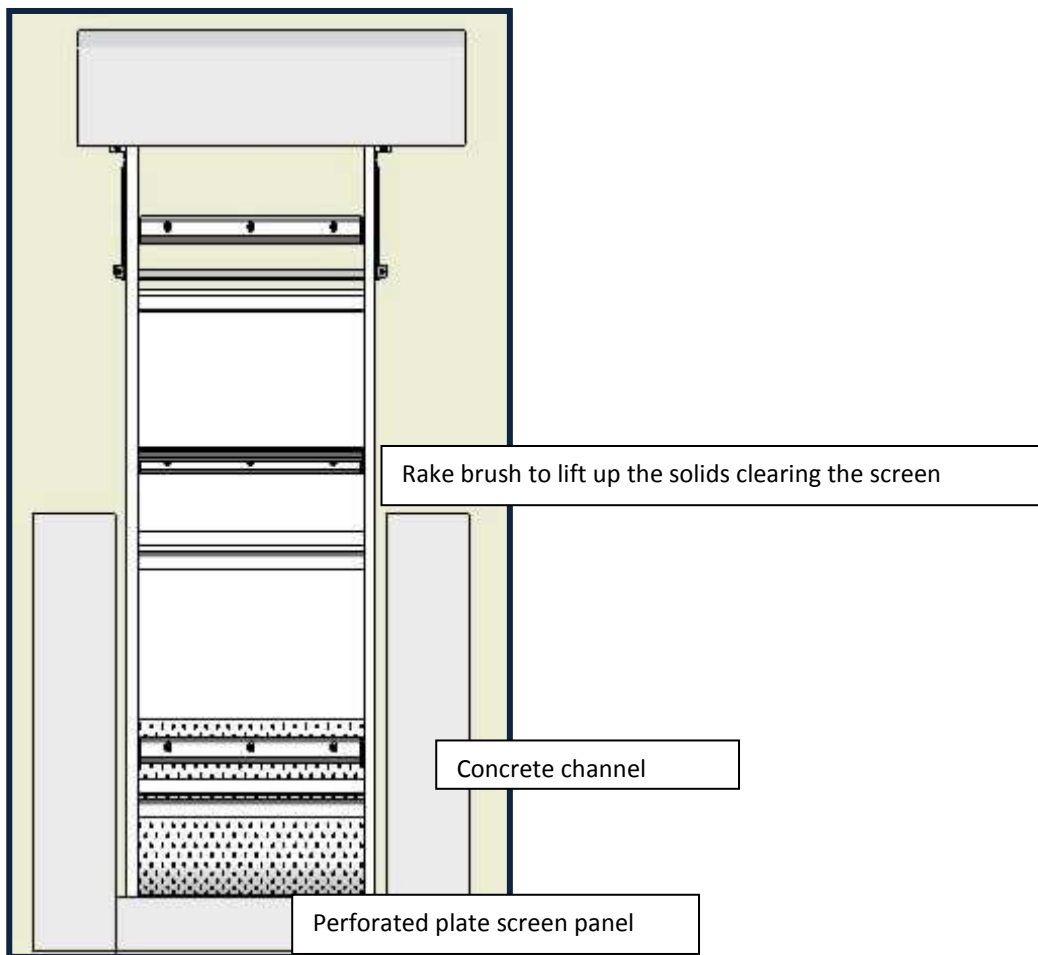
FINE SCREENING AND MBR PRE-TREATMENT:

In most installations the fine screening is the latest possible stage where the suspended solids are retained. It is just so that the choice of the type of grid to be installed is made with the utmost care. There are several conditions that influence the choice to be made. These conditions may be:

- 1-Screen system to be installed in new or existing plant (ie accurate assessment of existing hydraulic profiles)
- 2 Effluent, mixed or separate
- 3-Relaunched sewage pumping stations, or coming by gravity
- 4-Need to get to a very fine degree of screening in a single step or in several stages.

For each type of condition, the designers FLUITECO have identified the ideal solution

SMC PH- SUB VERTICAL BRUSH SCREEN



FLUITECO srl

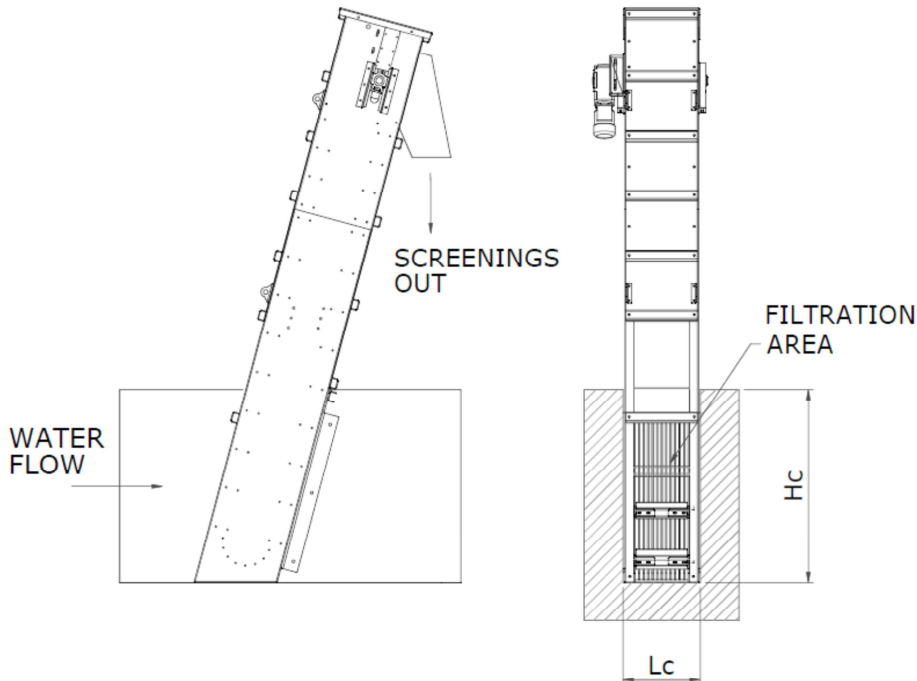
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Standard dimension:



Screen panel is composed by a perforated plate with holes meshes from 2 to 8 mm to grant the maximum level of solids capture ratio

MODEL	SMC400	SMC500	SMC600	SMC700	SMC800	SMC900	SMC1000	SMC1200	SMC1400	SMC1600	SMC1800	SMC2000
CHANNEL WIDTH: Lc	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000
CHANNEL HEIGHT: Hc	variable	variable	variable	variable	variable	variable	variable	variable	variable	variable	variable	variable

THEORETICAL FLOW RATES (*)													
SMC PH MODEL		400	500	600	700	800	900	1000	1200	1400	1600	1800	2000
Screen panel height		800	800	800	800	800	1000	1000	1000	1000	1200	1500	1500
		Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h	Mc/h
Φ	2 mm	140	180	225	272	315	396	435	490	549	615	742	890
	3 mm	175	212	270	339	401	498	529	568	601	689	790	997
	5 mm	260	298	380	400	497	578	619	666	698	780	912	1110

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6 mm	290	340	412	490	560	629	686	729	763	886	1040	1240
8 mm	380	491	535	687	800	878	1010	1080	1176	1220	1300	1440



SMC PH- SUB VERTICAL BRUSH SCREEN is manufactured in stainless steel Aisi 304 /Aisi 316. Cleaning brushes are in special plastic material in the condition to grant the maximum resistance.

Working principle:

The unit is generally installed into the channel with angle 75°, but with special execution the unit can be also installed at 85°.

The effluent arrive to the screen clogging the filtration section. The level before the screen increases and a level sensor gives the signal to start the rotation of the gearmotor. The trasmission between gearmotors and rakes/brush is provided by sprockets and chain. The rakes with brushes clean the screen and at the same time they provide to lift up the screenings until the discharge chute.

There are not sprockets and/or others mechanical components immersed in the effluent. The number of the rakes/brushes depend from the height of the screen.

Advantages:

- Maximum performance in termo f solids capture ratio.
- Very easy installation
- Very easy maintenance operation. The screen is totally protected with inspection covers on the part out of the channel.
- Low investment cost.

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