

SCREW SAND REMOVER

GENERAL CHARACTERISTICS

Sand removers are used for purification plants that treat effluent from different networks. The sand has to be removed to prevent it from building up in the decantation and digestion tanks and causing problems. The screw sand remover is usually installed downstream of sand traps so the sand extracted in the latter can then be separated from the water.

CONSTRUCTIONAL CHARACTERISTICS

STURDY SEDIMENTATION HOPPER made of stainless steel, designed to be installed in different positions;

CHANNEL made of press-formed sheet metal reinforced with ribs. It has covers and, at the front, a discharge hopper;

SCREW made of thick, high quality FE 510 carbon steel;

WORM GEARED MOTOR directly connected to the screw;

SUPPORTING COLUMNS mounted at a reasonable distance from the unloading area to leave space for containers or conveyor belts.

STANDARD CONFIGURATION

AISI 304 stainless steel

Also available on request:

SEDIMENTATION hopper, channel and carbon steel guards that are pre-treated and given an epoxy paint coating as standard;

SCREW made of high strength hot-galvanized FE 510 carbon steel.

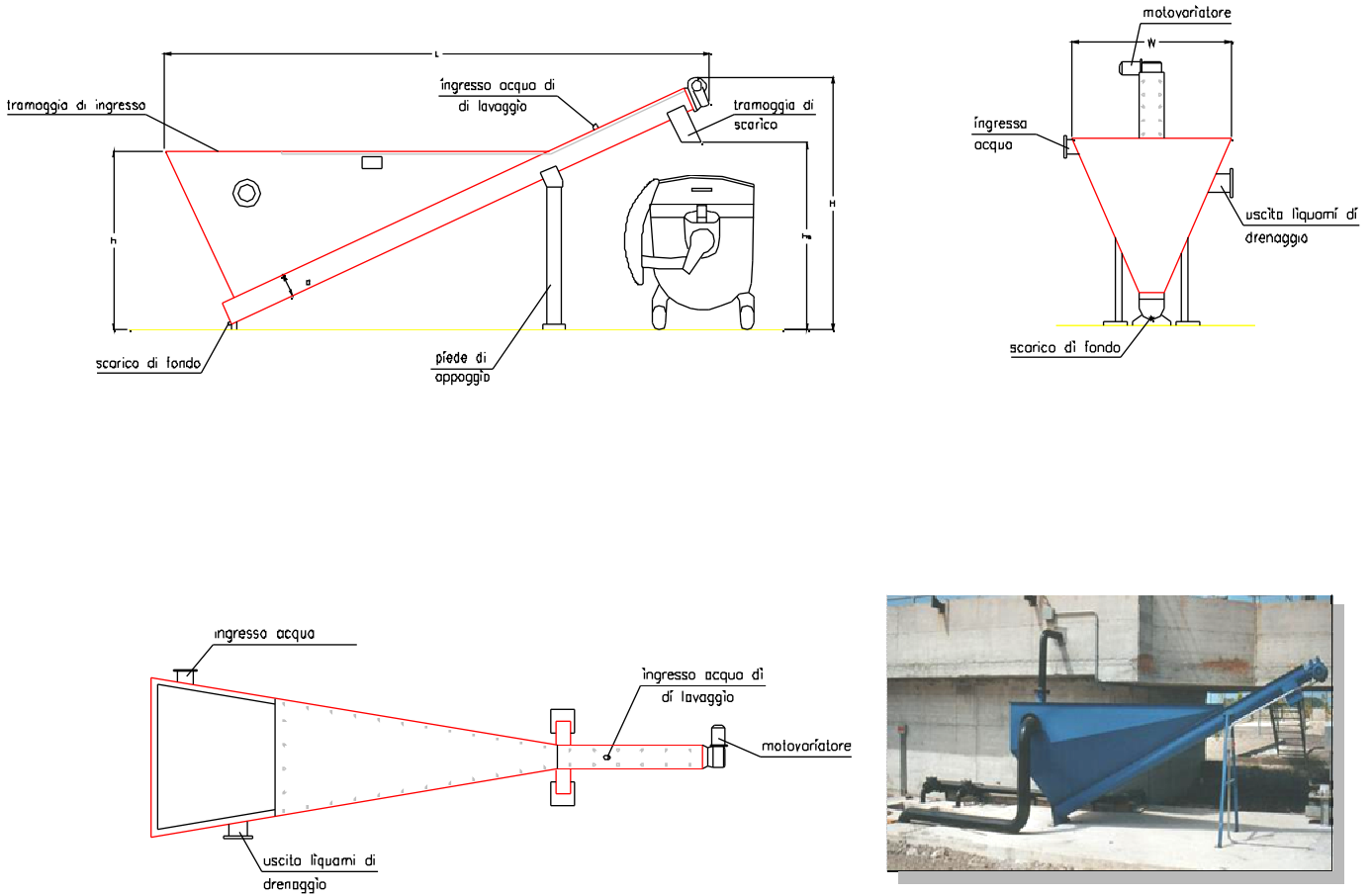
OPERATION

The water enters the decantation hopper where the solid particles separate and sink to the bottom.

The accumulated sand is extracted by a screw which is tilted at an angle and turns very slowly to avoid disturbing sedimentation and to permit unloading of the material without liquid. The clarified water flows out at the top of the decantation hopper. The sand can be cleaned in the unloading area with jets of water.



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Main Features	UNIT	Dimensions		
MODELS		ESC 40	ESC 60	ESC 100
Screw diameter	mm	190	285	360
Max length	mm	4800	6200	7600
Max width	mm	1750	2080	2250
Tank height	mm	1570	1700	2500
Sand unloading height	m ³ /h	1700	1900	2600
Max height	mm	2250	2500	2800
Tank volume	m ³	2,0	3	5,1
Retention period	min	3	3,5	5,1
Max inlet load	m ³ /h	40	60	100
Power supply	kW	0,55	1,1	2,2
Inlet diameter PN10	DN	125	125	150
Outlet diameter PN10	DN	200	200	250

The company reserves the right to make modification and improvements without prior notice.