

# Sand separator



**AQUA AURA**  
Leading Technologies



# CLS/LC – SAND SEPARATOR CONICAL WASHER

Grit classifiers CLS/LC separate and wash sand from wastewater of various nature: municipal and industrial of different types. It consist of a large conical hopper for sand setting, sedimentation and washing, and a tubular screw for conveying and dehydration the collected material.

The conical shape of the hopper, the special counter-washing system and the low rotational internal stirrer allow the machinery to wash the sands and separate the organic matter. The machine is completely enclosed by sealing and cover in order to avoid the odours and contaminating matter outcoming.

## FUNCTION

On the upper part of the hopper there is a flanged inlet introducing the material to be treated in the machine. The conical shape of the hopper and the movement system through the low rotational stirrer make a twirl enabling the sand washing and setting. The heavier sand particles settled on the bottom of the hopper where a counter-current system allows the washing; therefore the washed material reaches the coupling linking to the screw. On the side of the hopper there is a proper outlet allowing the outcoming of the lightest material. The screw on the bottom of the machine is able to extract the collected material, dehydrating it and uplifting it towards the outlet in order to convey it in a container.

## MANUFACTURING FEATURES & PERFORMANCES

<i>Installed power</i>	from 0,74 up to 1.1, kW
<i>Inlet flow rate</i>	up to 90 m <sup>3</sup> /h
<i>Solid flow-rate</i>	up to 1,3 m <sup>3</sup> /h
<i>Sand removal efficiency</i>	> = 90% up to 200 µm
<i>Sand dehydration efficiency</i>	up to 90%
<i>Residual organic content</i>	> = 5%



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## Technical details

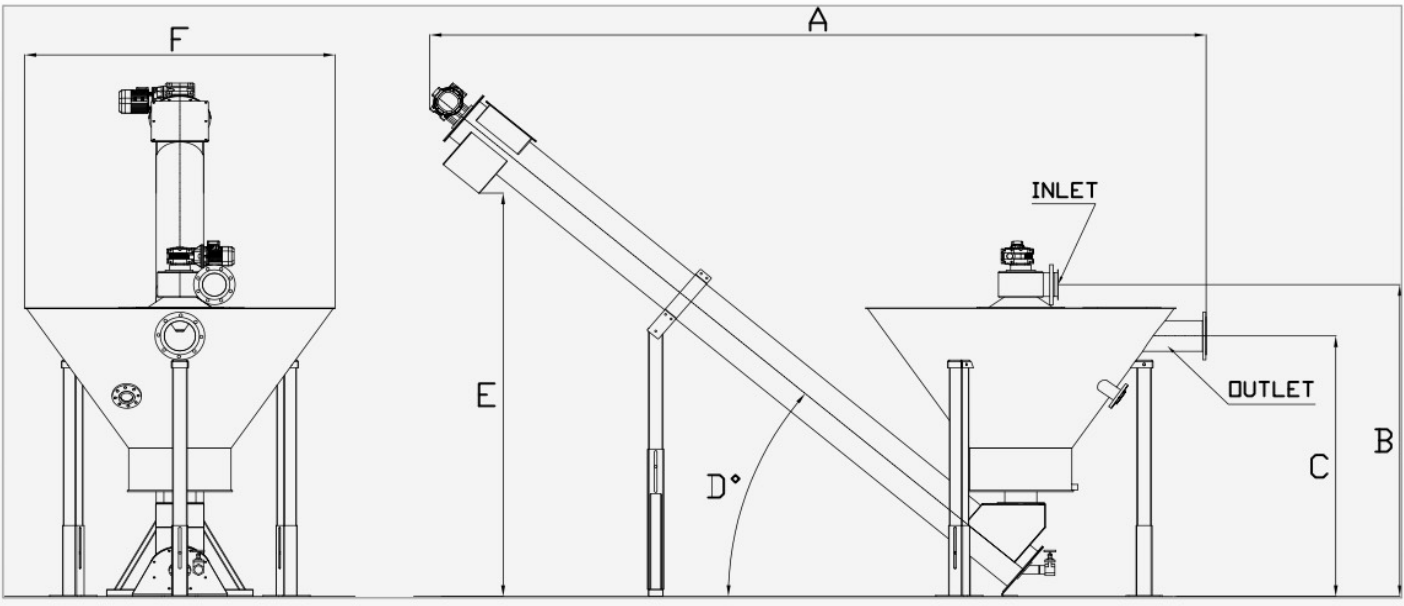
	A	B	C	D	E	F	INLET *	OUTLET *	kW screw	kW stirrer	WEIGHT Kg
	mm	mm	mm	°	mm	mm					
CLS/LC 30	4205	1980	1595	40°	2150	2150	DN 100	DN 150	0,37	0,37	820
CLS/LC 60	5315	2230	1860	40°	2965	2200	DN 150	DN 200	0,55	0,55	940
CLS/LC 90	5900	2700	2250	40°	2965	3000	DN 200	DN 250	0,55	0,55	1250

\* ANSI type also

based on machine configuration, motor power could be different

	FLOWRATE m³/h	SAND REMOVAL m³/h
CLS/LC 30	30	1
CLS/LC 60	60	1
CLS/LC 90	90	1,5

data here listed are calculated using clear water





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