

COMBINED SYSTEM OMEGA CC

Leader in the design and the manufacturing of sludge treatment systems for drinking water, waste water and sludge, EMO is present in 5 continents of the globe and holds more than 2500 recommendations to its credit since the company's creation in 1985.

- ✓ The OMEGA Belt Filter Press is designed for the continuous mechanical dewatering of municipal and industrial sludge.
- ✓ With its in-house, well equipped laboratory, EMO has been able to characterize many kinds of sludges and deliver tailor-made solutions for the benefit of the end-user.
- ✓ EMO does not only provide electromechanical equipment but engineering and process solution thanks to the expertise of its Chemical & Process Engineers.



Technical data



The Combined System – CC range is designed for one continuous dewatering of sludge from small water-treatment plants urban and industrial.

This compact technique of a big simplicity of operation associates the functions of a gravity belt thickener and one belt filter press :

- Construction in stainless steel AISI 304L
- Easy maintenance and supervision
- Economic – Very low cost of operation
- Completely closed - Detention of smells and noise pollutions

Installations



OMEGA CC with liming



OMEGA CC 120



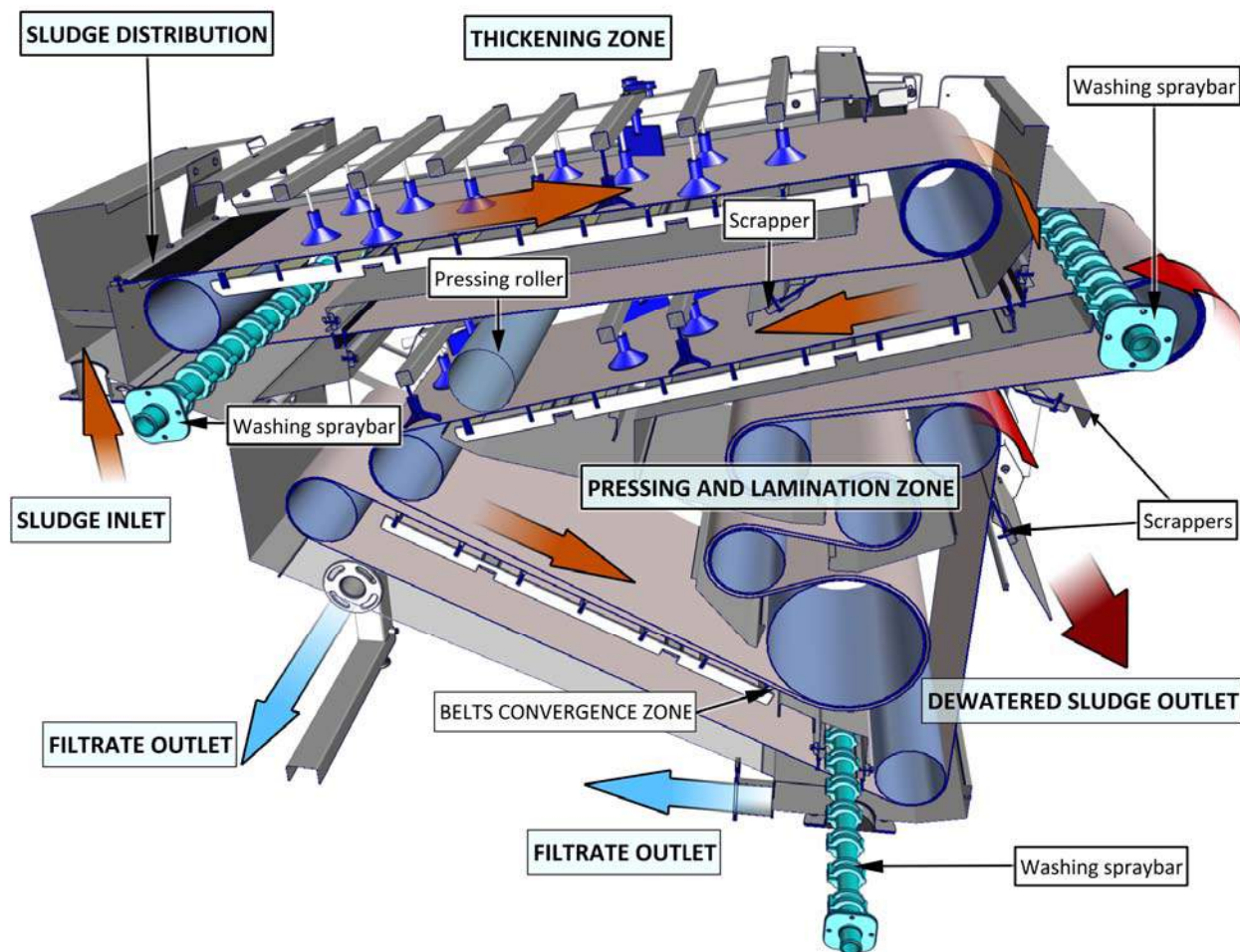
OMEGA CC Mobile Unit

Operating principle

Flocculated sludge enters on the upper part of the equipment by means of a sludge inlet flange. The sludge divides up on the filtering belt in a uniform way. The water contained in the sludge flows through the filtering belt and is then channelled in a tank. Plows arranged on the thickening zone create grooves in the sludge to ease the draining of the water.

The thickened sludge is then poured on a filtering belt of the pressing zone having a finer meshing to allow the pressing.

The second filtering belt of pressing comes to imprison gradually the sludge to evacuate residual water. After passage between rollers of various diameters to increase the pressing, the sludge is removed from the filtering belt and discharged in the disposal system (thickened sludge pump, screw conveyor ...).



Selection tables

Note that this combined unit is selected according to the DS loading rate per hour and per belt meter width. The rate varies from one type of sludge to the other.

Modèle	Belt width (m)	Dimensions (lxwxh)	Sludge flowrate (m ³ /h)
OMEGA CC 060	0,60	2.80 x 1,17 x 2.24	6
OMEGA CC 120	1,20	2.80 x 1.77 x 2.24	12
OMEGA CC 180	1.80	2.80 x 2.37 x 2.24	18