

Waste Water Treatment

SEPCOM® VERTICAL Solids-Liquid Separators
for Sewage Sludge Digestate



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Description ▼

SEPCOM® VERTICAL is a machine which consists of a feed device (feeding hopper or a compensator tank depending on whether the material is fed mechanically or pumped), a separator casing including two vertical screws manufactured from SINT™ engineering polymer, two cylindrical screens, a self-adjusting counter-pressure diaphragm outlet, and one or two separated liquid outlets. A drive unit and a support frame complete the machine.

Function ▼

SEPCOM® VERTICAL is a solids-liquid separating machine including two vertical screws manufactured from SINT™ engineering polymer that ensure there is no clogging and no loss of the solids plug during operation. Performing separation by both gravity and mechanical compression, the machine is designed to separate the liquid phase from the solid phase of a wide range of materials such as sludge, sewage, manure, solids-liquid mixtures, vegetable waste, processing waste and others, in which the percentage of liquid inside the solids may be considerably different. The separated solid phase and liquid phase can both be handled easily and cheaply.



Application ▼

The machine receives the material to be separated and conveys it using two vertical screws inside the separator casing. The liquid phase is separated through the mesh of both cylindrical screens which enclose the screw conveyors. Along its path towards the exit, the solid material gradually separates first the less linked liquid and then the more strongly linked liquid until a plug of almost dry material has formed in front of the outlet. This plug is continuously expelled through an elastic outlet diaphragm. The machine will automatically find its balance of squeezing force depending on the material handled. SEPCOM® VERTICAL can be used for a wide range of materials without the need of any manual adjustment.

Benefits ▼

- ✓ High performance wear-resistant screens;
- ✓ Significant overall management cost reduction of solids-liquid separation of digestate from anaerobic digester;
- ✓ Affordable spare parts;
- ✓ No leakage of unprocessed digestate;
- ✓ Significantly reduced assembly and maintenance time.

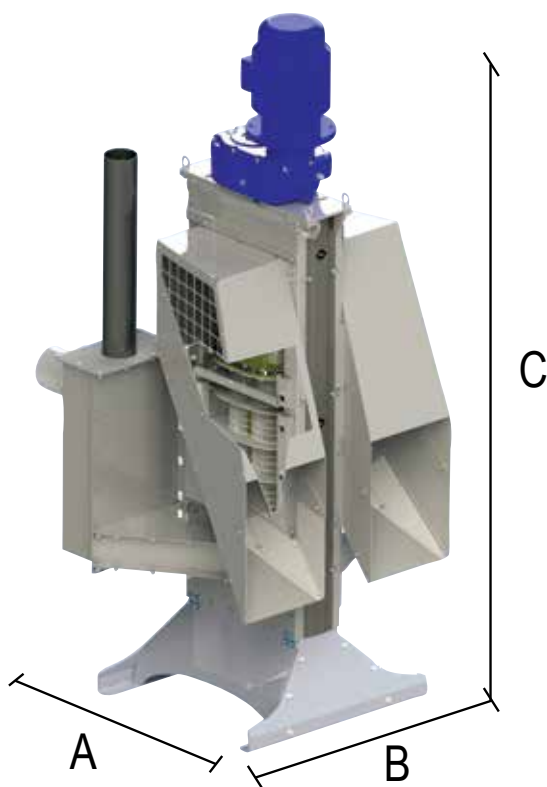
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Technical Features / Performance ▼

- ▶ Diaphragm outlet: self-adjusting counter-pressure (patented in various countries)
- ▶ Vertical screws manufactured from engineering polymer SINT™ ensure no clogging and no solids plug loss
- ▶ Vertical access to screen for easy maintenance
- ▶ Galvanized steel frame
- ▶ Reduced overall dimensions
- ▶ Maintenance-friendly drive unit position
- ▶ Front chute for comfortable collection of separated solids



MODEL	Diameter	A mm	B mm	C mm	Power kW	Weight kg	Max. Throughput m ³ /h *
SEPCOM 150 V22B	150	1,140	945	2,430	5.5	500	20

* Throughput rate depends on type of material, operating conditions and maintenance.