

Waste Water Treatment

SEPCOM® Solids-Liquid Separators

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Description ▼

SEPCOM® is a machine which consists of a feed device (feeding hopper or compensator tank depending on whether the material is fed mechanically or pumped), a separator casing including a screw conveyor and a cylindrical screen, a compacted solid material outlet module and one or two separated liquid outlets. A drive unit and a support frame complete the machine.

Function ▼

SEPCOM® is a solids-liquid separating machine based on screw conveyor technology. 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, vegetables, 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 the screw conveyor inside the separator casing. The liquid phase is separated through the mesh of the cylindrical screen which encloses the screw conveyor. Along its path towards the exit, the material gradually separates the solids from 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. The 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® can be used for a wide range of materials without the need of any manual adjustments.

Benefits ▼

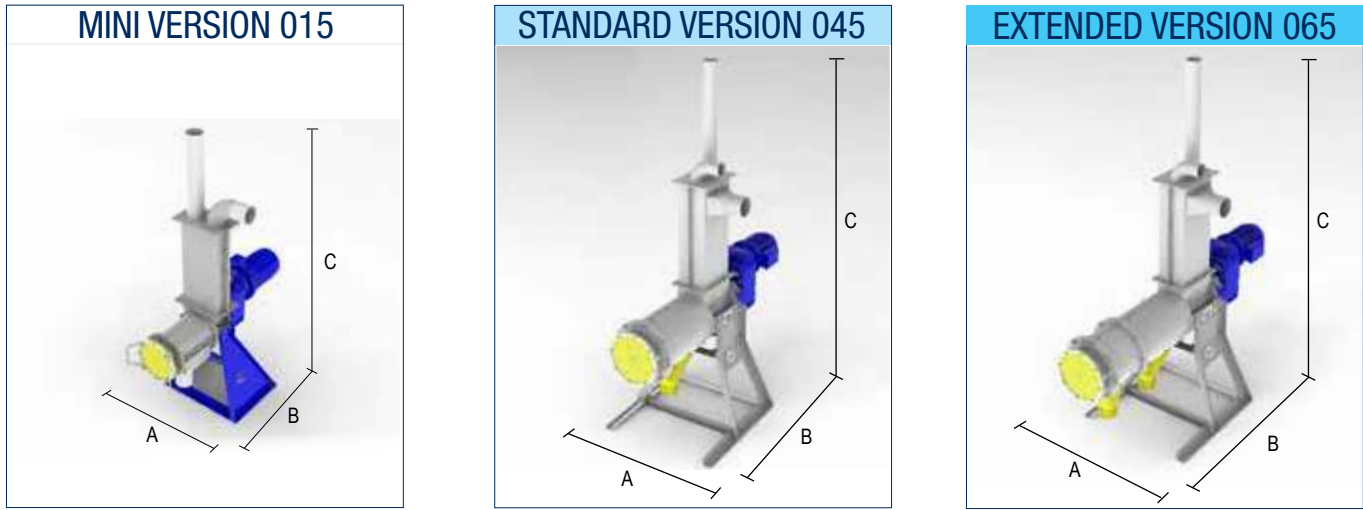
- ✓ Compliant with a wide range of materials with different throughput rates;
- ✓ Optimized feeding thanks to compensator tank;
- ✓ Outlet diaphragm for solids manufactured from anti-wear engineering polymer: cost-saving in spare parts;
- ✓ Self-balanced pressure at solids outlet: steady and safe operation;
- ✓ Self-cleaning screen: long life and high performance in time;
- ✓ Modular screw manufactured from anti-wear SINT™ engineering polymer: simple operation and cost-saving in spare parts;
- ✓ Continuous duty;
- ✓ Quick return on investment.

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Technical Features / Performance & Overall Dimensions ▼



RANGE	A mm	B mm	C mm	Power Consumption kW	Weight kg	Max. Capacity m³/h*
SEPCOM® 015	650	1,200	1,800	2.2	120	15
SEPCOM® 045	975	1,950	2,767	4.0	480	45
SEPCOM® 065	975	2,250	2,767	5.5	570	65

* Capacity may vary depending on the type of input material, working conditions, and maintenance.

DS.8.10. SEPCOM EN March 2015.R00
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This datasheet does not show the complete range but only the models most suitable for the application.