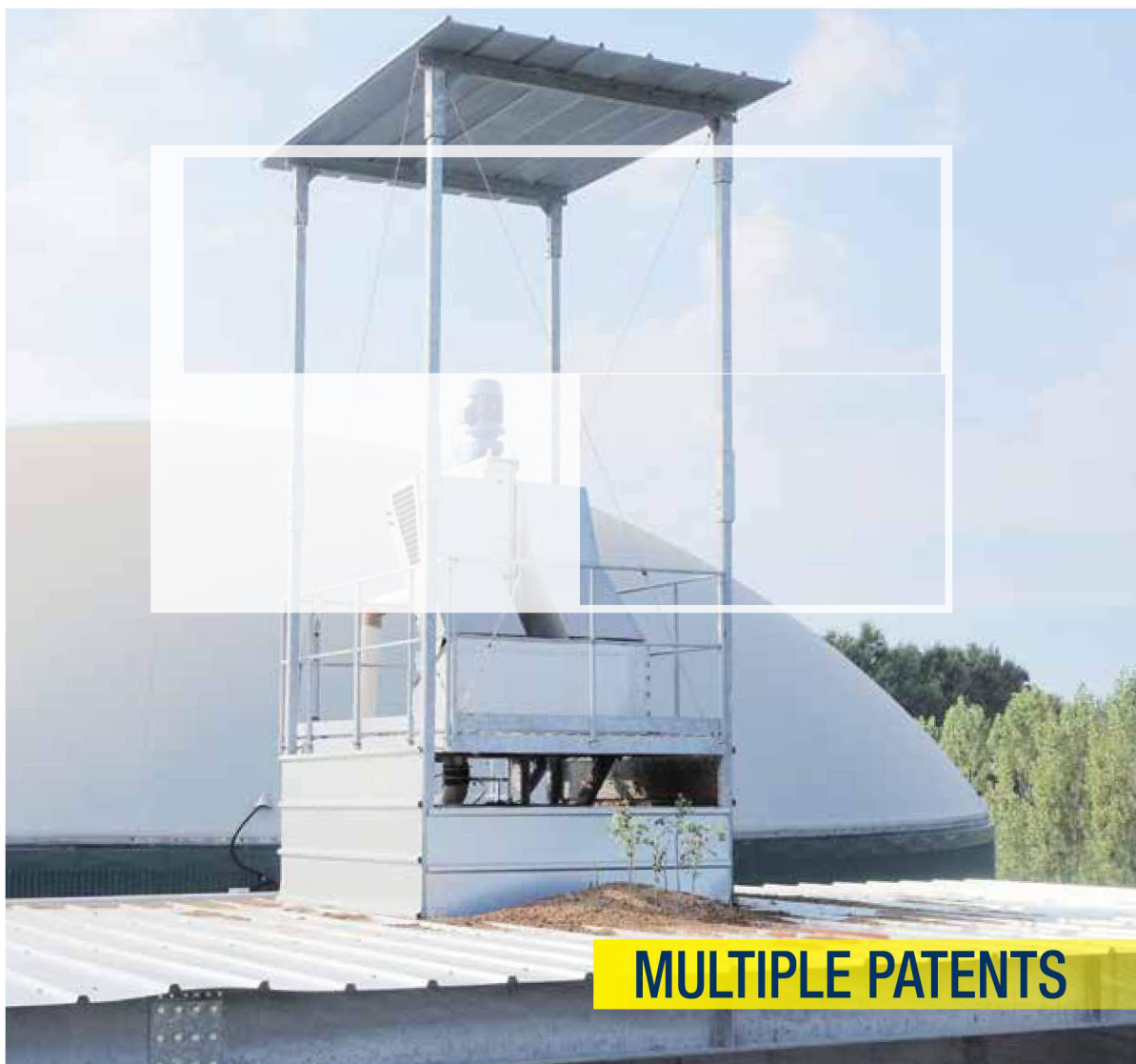


SEPCOM™ Biogas Digestate Treatment System

SEPCOM™ Industrial Process Waste Treatment System



GREENCROP

www.greencrop.co.uk

MAKE THE MOST OF YOUR BIOGAS DIGESTATE

The **SEPCOM™** system is a comprehensive range of equipment designed to **turn your biogas digestate from waste into a valuable resource.**

Raw digestate as such can be used in agriculture only within certain limits. Due to its high solids content, it is also extremely difficult waste to be disposed of.

To **make the most of your digestate** you need to separate it into a solid and a liquid phase.

Solid Phase turns into: 
a high-quality organic soil conditioner

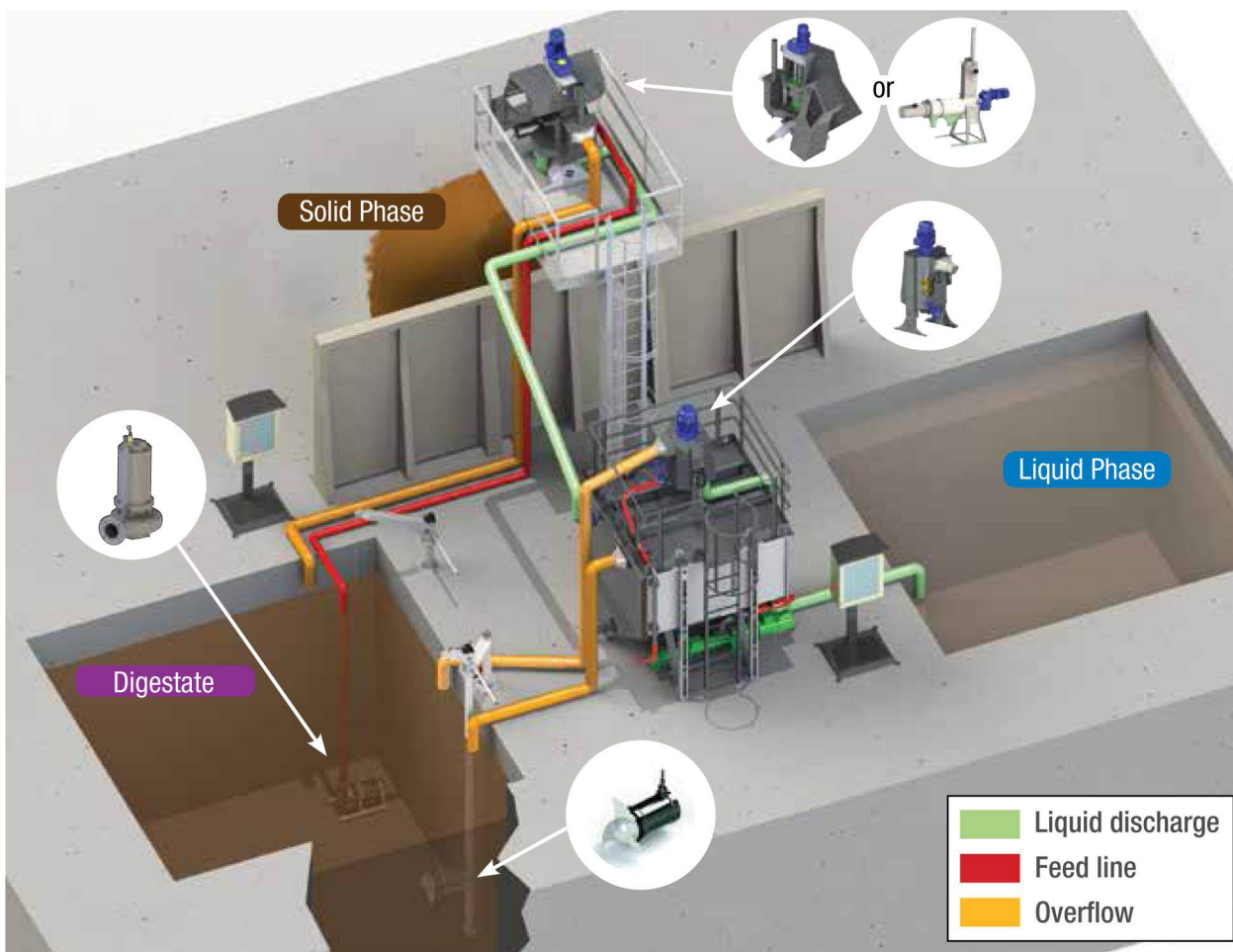
- Easy to shovel, store and transport
- Odourless
- Can be sold as soil conditioner

Liquid Phase turns into: 
an enriched liquid fertiliser

- Ideal for recirculation in biogas plants
- Can be used for fertigation
- Low fresh water consumption and minimised solids content
- Easy to mix, pump, spread and store



SEPCOM™ TREATMENT SYSTEM IN BIOGAS PLANT



MAKE THE MOST OF YOUR INDUSTRIAL PROCESS WASTE

The **SEPCOM™** system is a comprehensive range of equipment designed to **turn your industrial process waste into a valuable resource**. The system can be applied to a number of industrial applications such as paper mills, slaughterhouses, wineries, distilleries, plastics recycling, tapioca processing, vegetable oil extraction and waste water treatment in general.

Raw waste can be extremely expensive and difficult to be disposed of.

Therefore, to **make the most of your process waste** you should separate it into a solid and a liquid phase.

Solid Phase allows to:
save money on disposal costs



- Easy to shovel, store and transport
- Odourless
- Can be sold as soil conditioner *

Liquid Phase turns into:
a potential new resource



- Can be re-introduced into the process to save on fresh water *
- Could be used as liquid fertiliser *
- Easy to mix, pump, spread and store

** Depending on the type of waste*



SEPCOM™

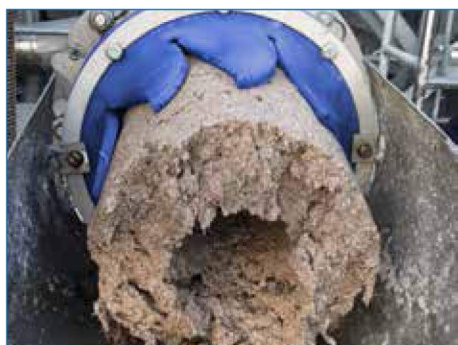
**TREATMENT SYSTEM FOR
INDUSTRIAL PROCESS WASTE**



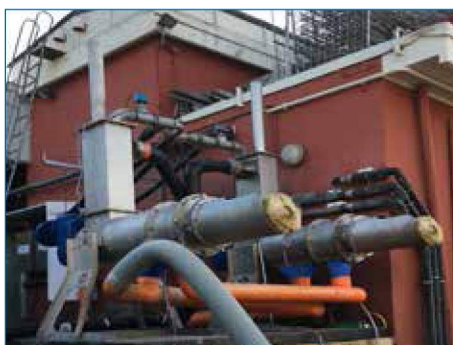
Rubber recycling (SEPCOM Industrial Vertical)



Tapioca processing (SEPCOM Industrial Vertical)



Paper mill - Pulp & paper (SEPCOM Industrial Horizontal)



Chicken slaughterhouse (SEPCOM Industrial Horizontal)



Slaughterhouse, cattle rumen (SEPCOM Industrial Horizontal)



Food waste (SEPCOM Industrial Horizontal)



Waste water treatment plant (SEPCOM Industrial Vertical)



Brewery (SEPCOM Industrial Horizontal)

DIGESTATE SEPARATORS

Separators are the core of a **SEPCOM™ Biogas** plant as they allow to separate the digestate into a solid and a liquid phase. With **high performance SINT™ engineering polymer screw flights** and a **stainless steel design**, **SEPCOM™ Biogas** is available in three distinct model versions. The choice mainly depends on the amount of fibre present in the digestate and on the required flow rate.

SEPCOM™ Biogas Vertical INTERNATIONAL PATENT PENDING

The perfect choice for biogas plants producing irregularly shaped digestate low in fibre.

- ✓ Never loses the solid plug
- ✓ Stable feeding due to compensator tank
- ✓ Higher separation efficiency than with traditional separators
- ✓ Affordable spare parts



SEPCOM™ Biogas Horizontal

Ideal for fibrous digestate as from corn silage and cow manure.

- ✓ Up to 30% separated solids
- ✓ Safe continuous operation due to self-adjusting pressure at solids outlet INTERNATIONAL PATENT
- ✓ Affordable spare parts



MINI-SEPCOM™ Biogas Horizontal

The most compact machine of the range, ideal for small amounts of digestate to be treated.

- ✓ Minimised footprint
- ✓ Safe continuous operation due to self-adjusting pressure at solids outlet INTERNATIONAL PATENT
- ✓ Affordable spare parts



INDUSTRIAL WASTE SEPARATORS

Separators are the core of a **SEPCOM™ Industrial** plant as they allow to separate industrial waste into a solid and a liquid phase. With **high performance SINT™ engineering polymer screw flights** and a **stainless steel design**, **SEPCOM™ Industrial** is available in three distinct model versions. The choice mainly depends on the required flow rate.

SEPCOM™ Industrial Horizontal

Ideal for fibrous waste as in pulp and paper, cattle rumen, oil, distillery and tapioca processing etc.

- ✓ Up to 30% separated solids
- ✓ Safe continuous operation due to self-adjusting pressure at solids outlet INTERNATIONAL PATENT
- ✓ Affordable spare parts

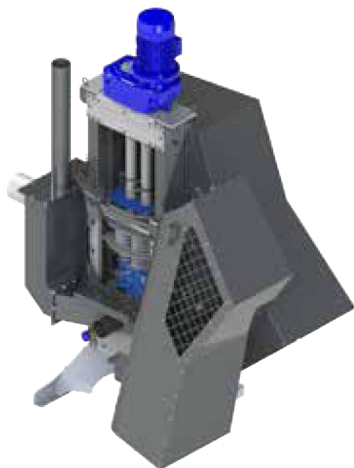


SEPCOM™ Industrial Vertical

INTERNATIONAL PATENT PENDING

The perfect choice for waste low in fibre, waste fat and all waste that cannot be treated with traditional screw separators.

- ✓ Never loses the solid plug
- ✓ Stable feeding due to compensator tank
- ✓ Higher separation efficiency than with traditional separators
- ✓ Affordable spare parts



MINI-SEPCOM™ Industrial Horizontal

The most compact machine of the range, ideal for small amounts of waste to be treated.

- ✓ Minimised footprint
- ✓ Safe continuous operation due to self-adjusting pressure at solids outlet INTERNATIONAL PATENT
- ✓ Affordable spare parts



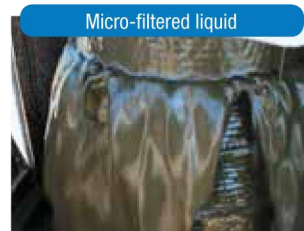
MICRO-FILTRATION

Micro-filtered digestate liquid can be used for fertigation or in systems that reuse the liquid to dilute the dry matter fed into the anaerobic digesters in biogas plants.

SEPCOM™ MFT Micro-Filter INTERNATIONAL PATENT PENDING

The **SEPCOM™ MFT** Micro-Filter is used to fine-screen the liquid phase of a previous solids-liquid separation process.

- ✓ **High filtration efficiency due to stainless steel screen down to 15µm (0.015mm)**
- ✓ **Self-cleaning**
- ✓ **Low operating costs**



ACCESSORIES

Prior to separation and micro-filtration, raw digestate may contain lumpy solids or fibre that could disrupt the regular plant flow. In this case a submersible chopper pump and an agitator are an excellent solution.

SEPCOM™ WSA Submersible Agitator

The **SEPCOM™ WSA** Submersible Agitator stirs up the raw digestate to be treated by the separator.

- ✓ **Excellent blending performance**
- ✓ **Prevents from deposits forming on the bottom of the collecting tank and from potential clogging of pump and separator**



SEPCOM™ WSP Submersible Chopper Pump

Thanks to an integrated cutting system, **SEPCOM™ WSP** Submersible Chopper Pumps can convey liquids containing lumpy solid particles or fibre.

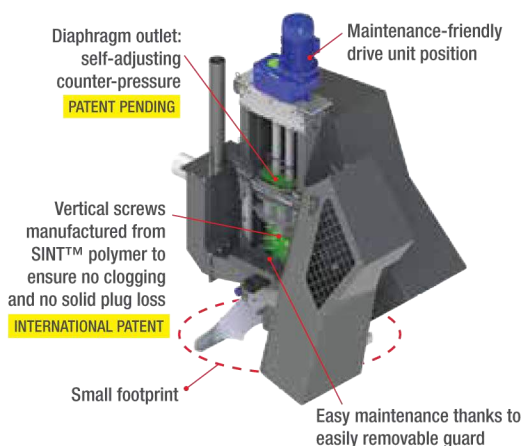
- ✓ **Two functions: shredding and pumping**
- ✓ **The perfect solution for difficult operating conditions**



Technical Features and Overall Dimensions

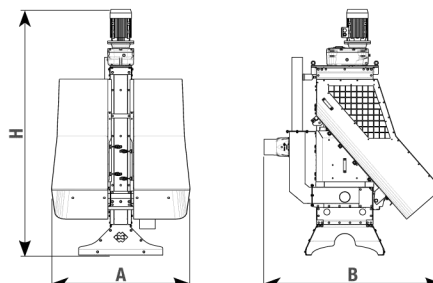
SEPCOM™ Biogas Vertical Digestate Separator

INTERNATIONAL PATENT PENDING



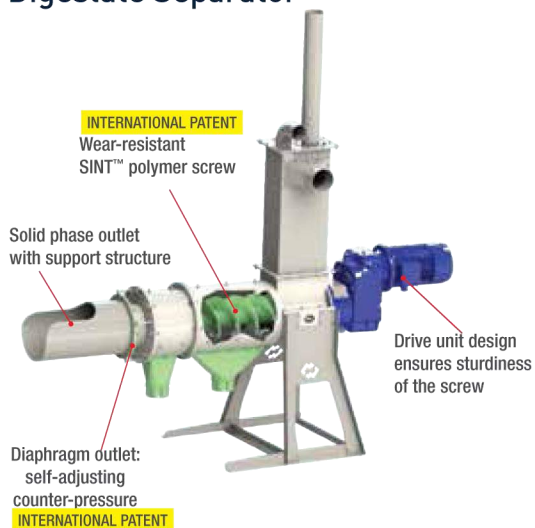
RANGE	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg
SEPBIOV21503	150	1,320	1,690	2,340	4.0	460
SEPBIOV22003	200	1,500	1,890	2,685	5.5	650
SEPBIOV22503	250	1,590	2,020	2,960	7.5	895

COMING SOON

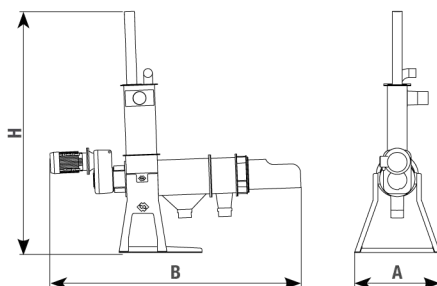


* The flow rate is intended with clean water. Its real value depends on the type of material treated, on configuration of the equipment, as well as use and maintenance conditions.

SEPCOM™ Biogas Horizontal Digestate Separator



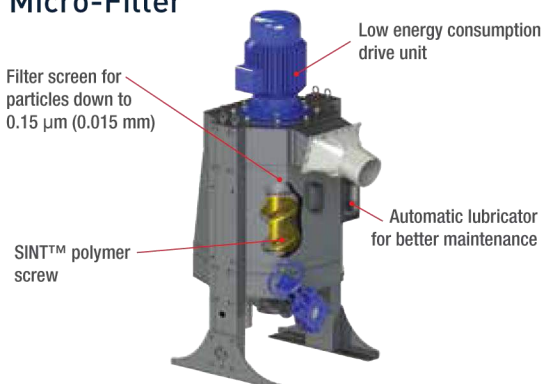
RANGE	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg
SEPBIOH11502	150	660	1,420	1,800	2.2	140
SEPBIOH12602	260	980	2,530	2,770	4.0	495
SEPBIOH12603	260	980	2,830	2,770	5.5	545



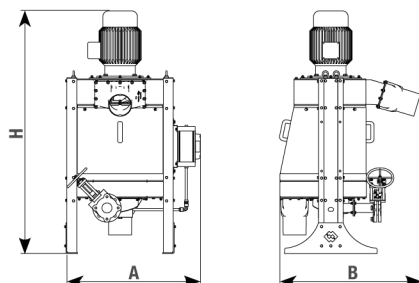
* The flow rate is intended with clean water. Its real value depends on the type of material treated, on configuration of the equipment, as well as use and maintenance conditions.

SEPCOM™ MFT Micro-Filter

INTERNATIONAL PATENT PENDING



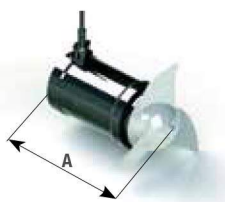
RANGE	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg
SEPCOM MFT260	260	870	880	1,575	7.5	300



* The flow rate is intended with clean water. Its real value depends on the type of material treated, on configuration of the equipment, as well as use and maintenance conditions.

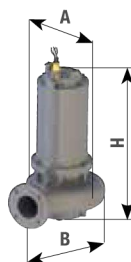
SEPCOM™ WSA Submersible Agitators

RANGE	Blade Diameter	A mm	Power kW	Weight kg
WSA 15	260	465	1.5	53
WSA 22	320	570	2.2	80
WSA 30	395	605	3.0	104
WSA 40	600	580	4.0	149
WSA 55	600	635	5.5	169
WSA 75	600	690	7.5	195



SEPCOM™ WSP Submersible Chopper Pumps

RANGE	Inlet ø mm	A mm	B mm	H mm	Weight kg
WSP 22					73
WSP 30	80	330	400	670	75
WSP 40					76
WSP 55					121
WSP 75	100	345	440	770	127



Application



Ancillary Equipment



HOPPER TANKS
for separator



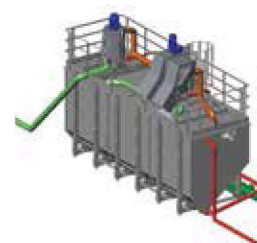
SEPCOM™ SCP
control panel



PLATFORM
in hot-dip galvanized steel



COMPACT MICRO-FILTRATION PLANT
Plant complete with
micro-filter and tank



SEPARATION AND MICRO-FILTRATION PLANT
Plant with complete micro-
filter separator and tank



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