

SOLIDS-LIQUID SEPARATION

SEPCOM™ Cow

Cattle Manure Treatment System



MULTIPLE PATENTS

HOW TO MAKE THE MOST OF YOUR CATTLE MANURE

The SEPCOM™ system is a comprehensive range of equipment designed to **turn cattle manure into an even more valuable resource.**

In agriculture untreated manure can be used as organic fertiliser only within certain limits.

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

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

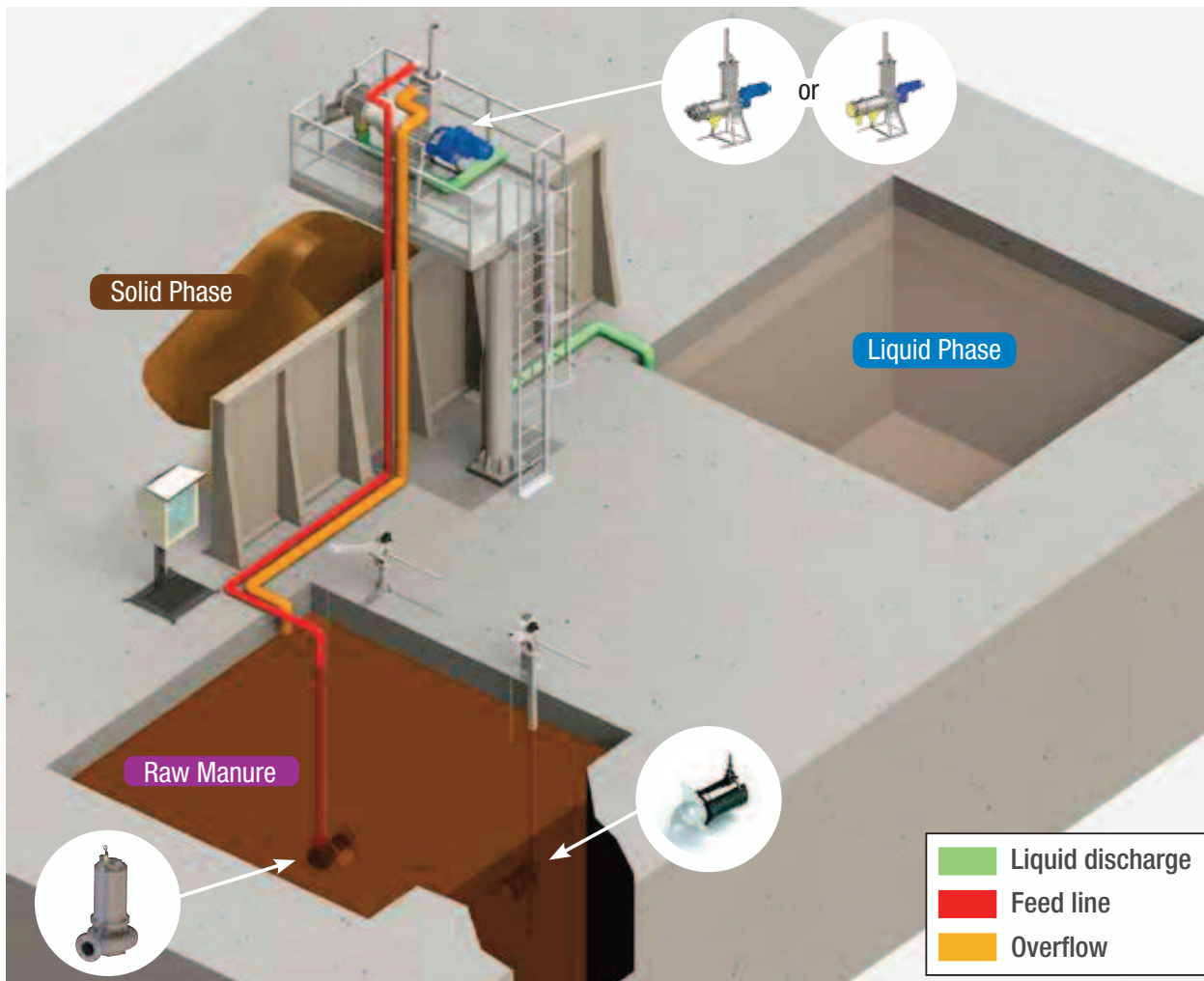
- Easy to shovel, store and transport
- Odourless
- Can be used as bedding
- Can be sold as soil conditioner

Liquid Phase turns into:  **an enriched liquid fertiliser**

- Can be used for flushing
- Can be used for fertigation
- Low fresh water consumption and minimum solids content
- Easy to mix, pump, spread and store



SEPCOM™ TREATMENT SYSTEM IN CATTLE FARM



CATTLE MANURE SEPARATORS

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

SEPCOM™ Cow Horizontal

Ideal for fibrous manure.

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



SEPCOM™ Cow Bedding

Innovative solids-liquid separator. Due to its special configuration, the solid phase is dry enough to be used as cow bedding.

- ✓ **Significant overall cost reduction on bedding**
- ✓ **Solids with up to 40% of dry matter**
- ✓ **Affordable spare parts**



MINI-SEPCOM™ Cow Horizontal

The most compact machine of the range, ideal for a small amount of manure.

- ✓ **Minimised footprint**
- ✓ **Safe continuous operation due to self-adjusting pressor at solids outlet** MULTIPLE PATENTS
- ✓ **Affordable spare parts**



MICRO-FILTRATION

Micro-filtered manure in slurry form can be used for fertigation, assuring lower water consumption, thus avoiding use of chemical fertiliser.

SEPCOM™ MFT Micro-Filter

MULTIPLE PATENTS 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 25µm (0.025mm)
- ✓ Self-cleaning
- ✓ Low operating costs



ACCESSORIES

Prior to separation and micro-filtration, raw manure 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 manure 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

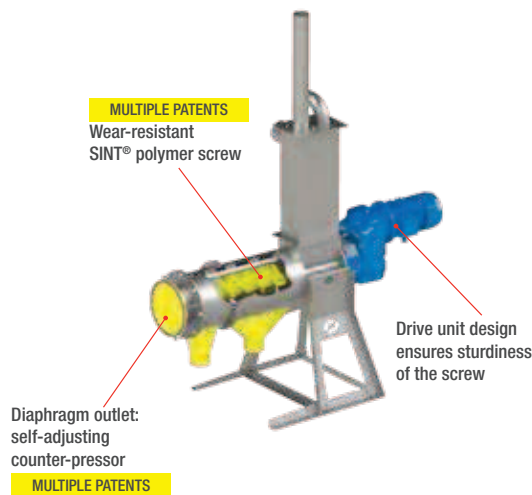
Due to an integrated cutting system, **SEPCOM™ WSP** Submersible Chopper Pumps can convey liquid containing lumpy solid particles or fibre.

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

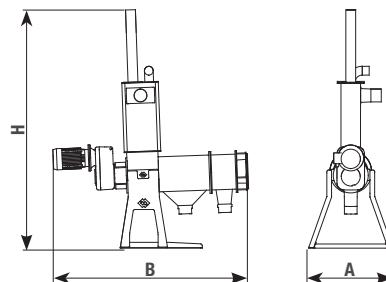


Technical Features and Overall Dimensions

SEPCOM™ Cow Horizontal Cattle Manure Separator

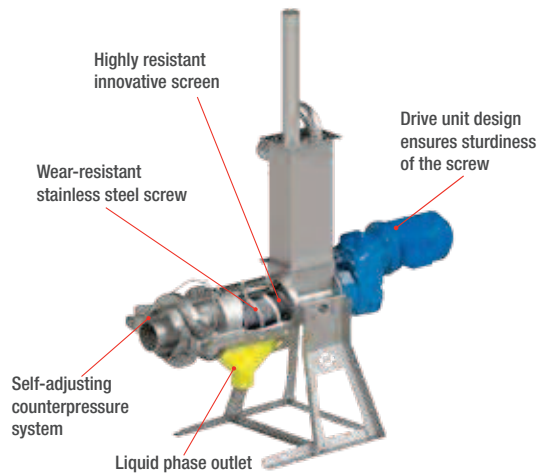


MODEL	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg	Max. Throughput m³/h *
SEPCOWH11502	150	660	1,200	1,800	2.2	137	15
SEPCOWH12602	260	980	1,930	2,770	4.0	485	45
SEPCOWH12603	260	980	2,230	2,770	5.5	535	65

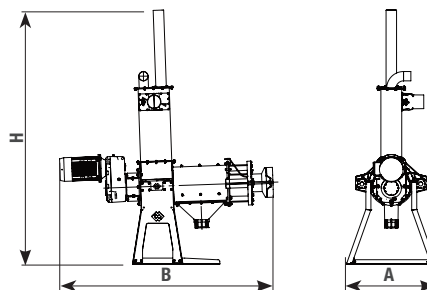


* The flow rate is intended with clean water. Its real value depends on the type of material treated, on configuration of the equipment, as well as use and maintenance conditions.

SEPCOM™ Cow Bedding Cattle Manure Separator

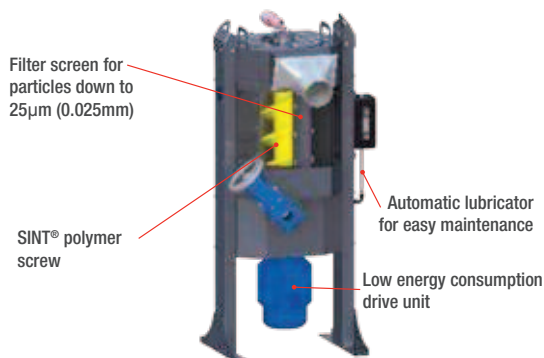


MODEL	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg	Max. Throughput m³/h *
SEPBDPH12602	260	980	2.395	2.770	5.5	743	40

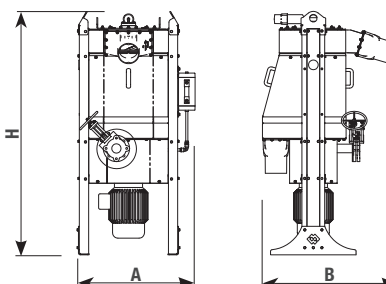


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SEPCOM™ MFT Micro-Filter

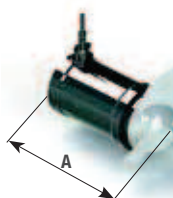


MODEL	Diameter mm	A mm	B mm	H mm	Power kW	Weight kg	Max. Throughput m³/h *
SEPCOM MFT260	260	870	880	1,575	7.5	300	10



* 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



MODEL	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



MODEL	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	100	345	440	770	121
WSP 75					127

Application



Ancillary Equipment



HOPPER TANKS
for separator



SEPCOM™ SCP
control panel



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



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