

# SEPCOM™ Cow

Cattle Manure Treatment System



# 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**

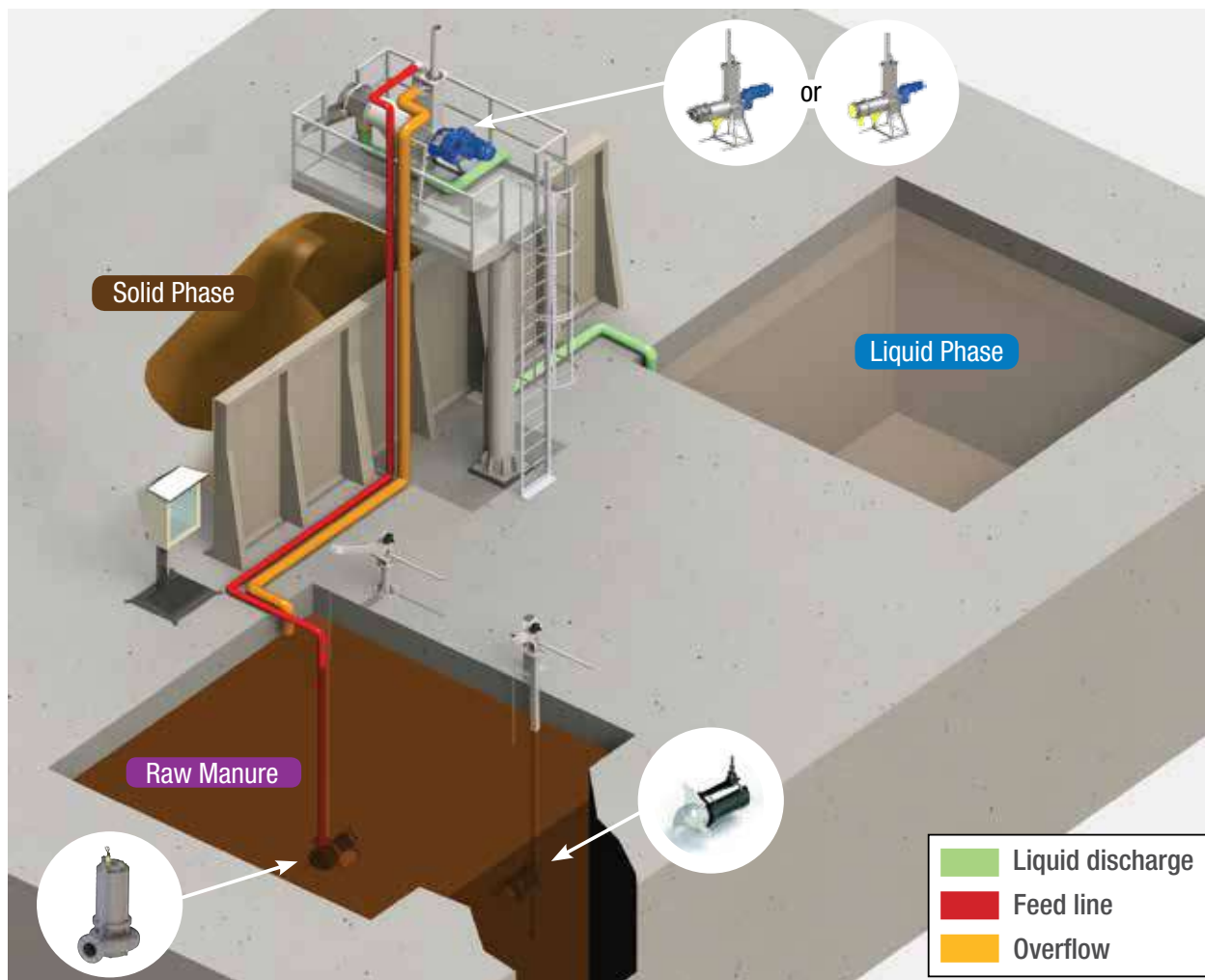
- Easy to shovel, store and transport
- Odourless
- Can be used as bedding
- Can be sold as soil conditioner

**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**



Micro-filtered liquid



Solid output

## 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

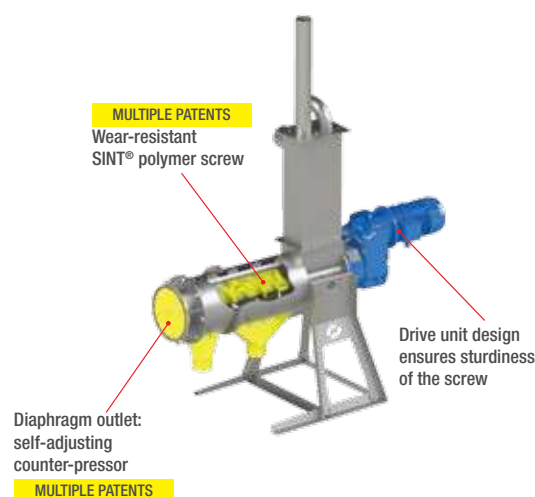
Due to an integrated cutting system, **SEPCOM™ WSP** Submersible Chopper Pumps can convey liquid containing lumpy solid particles or fibre.

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

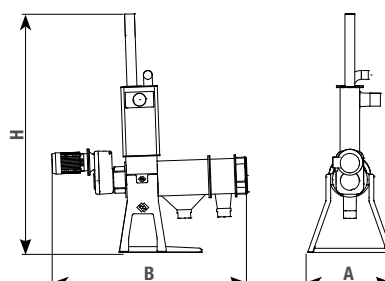


## Technical Features and Overall Dimensions

### SEPCOM™ Cow Horizontal Cattle Manure Separator

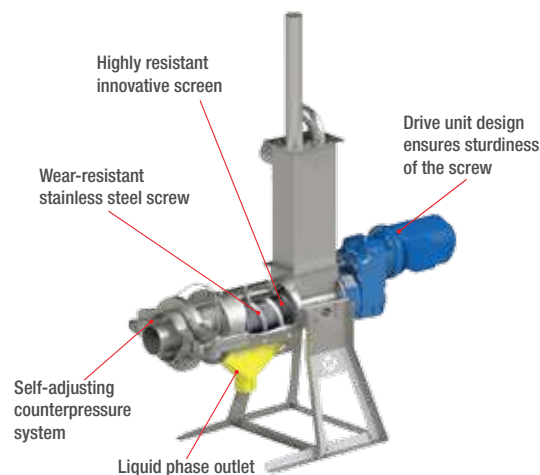


| MODEL        | Diameter mm | A mm | B mm  | H mm  | Power kW | Weight kg | Max. Throughput m³/h * |
|--------------|-------------|------|-------|-------|----------|-----------|------------------------|
| SEPCOWH11502 | 150         | 660  | 1,200 | 1,800 | 2.2      | 137       | 15                 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

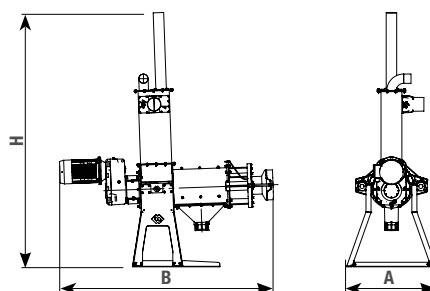


\* The flow rate is intended with clean water. Its real value depends on the type of material treated, on configuration of the equipment, as well as use and maintenance conditions.

### SEPCOM™ Cow Bedding Cattle Manure Separator



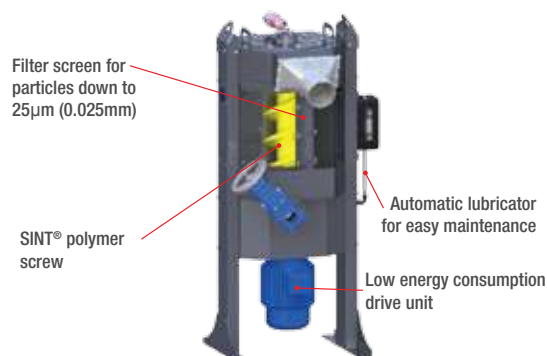
| MODEL        | Diameter mm | A mm | B mm  | H mm  | Power kW | Weight kg | Max. Throughput m³/h * |
|--------------|-------------|------|-------|-------|----------|-----------|------------------------|
| SEPBDPH12602 | 260         | 980  | 2,395 | 2,770 | 5.5      | 743       | 20                     |



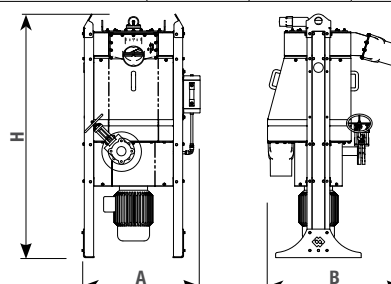
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### SEPCOM™ MFT Micro-Filter

**MULTIPLE PATENTS PENDING**

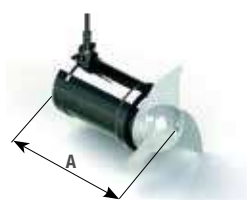


| MODEL         | Diameter mm | A mm | B mm | H mm  | Power kW | Weight kg | Max. Throughput m³/h * |
|---------------|-------------|------|------|-------|----------|-----------|------------------------|
| SEPCOM MFT260 | 260         | 870  | 880  | 1,575 | 7.5      | 300       | 10                 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



\* 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



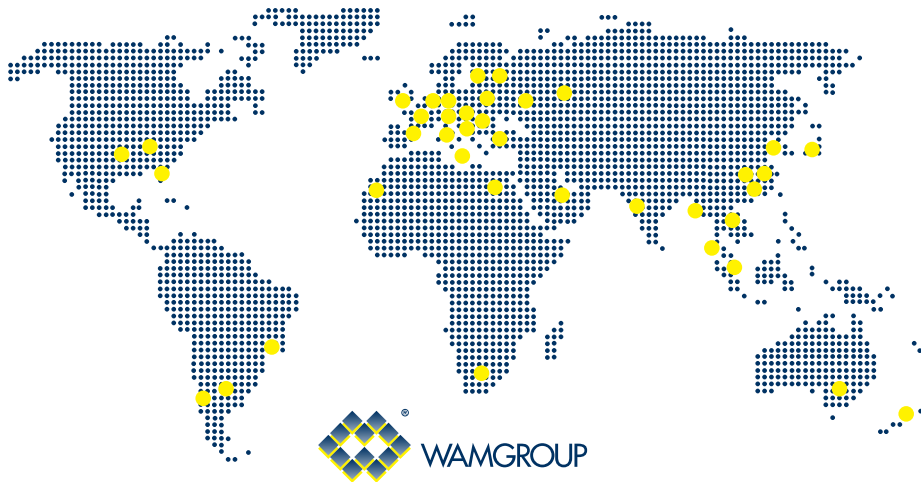
**HOPPER TANKS**  
for separator



**SEPCOM™ SCP**  
control panel



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



**SEPCOM™**

