LIVESTOCK FARMING & BIOGAS

# Heavy-duty Submersible Chopper Pumps

## SPH





WAMGROUP®

SAVECO®

# ROBUST, POWERFUL, RELIABLE

The CHIOR® SPH Submersible Chopping Pump is designed to shred and eject long-fibre solids in livestock manure, biogas digestate and industrial wastewater.

The powerful shear system is the heart of the unit allowing the pump to operate continuously, even under severe working conditions.

The SPH pump range comes with various accessory kits for use in a variety of applications. CHIOR® SPH Submersible Chopping Pumps can be installed on a vertical guide pole fixed to the tank or in a free-standing configuration.

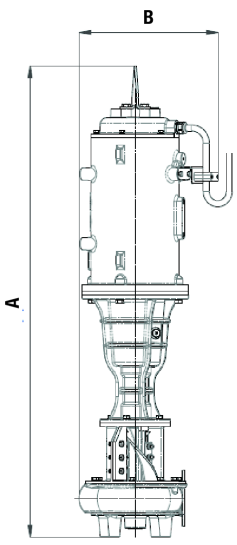


Pole-mounted application



Free-standing application

## Technical Data and Overall Dimensions



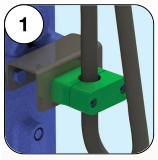

| TYPE | Installed Power (kW) | Dimensions A (mm) | Dimensions B (mm) | Weight (kg) |
|---|---|---|---|---|
| SPH 055 | 5.5 | 1,370 | 370 | 195 |
| SPH 075 | 7.5 | | | 200 |
| SPH 110 | 11.0 | 1,560 | 460 | 280 |
| SPH 150 | 15.0 | | | 285 |
| SPH 185 | 18.5 | | | 290 |

## Benefits

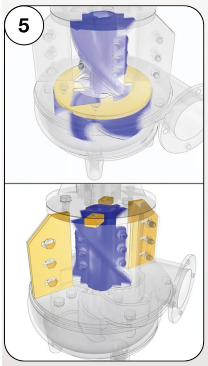
- **High-efficiency, low-energy consumption electric motor**
- **High lifting efficiency thanks to top suction system**
- **Powerful, reliable shredding system capable of ensuring continuous work cycles even in heaviest applications**
- **Anti-leakage design for extended durability**
- **Modular design facilitating maintenance operations**

## Technical Features

- Manufactured from cast iron
- Submersible IE3 electric motor (Premium Efficiency)
- 3-phase, 4-pole, insulation class F, IP68 protection motor
- Thermal probe preventing motor from overheating
- Torsional elastic coupling between motor and transmission shaft
- Cemented carbide mechanical seal
- EM7 rubber-sheathed cable with stainless-steel cable gland



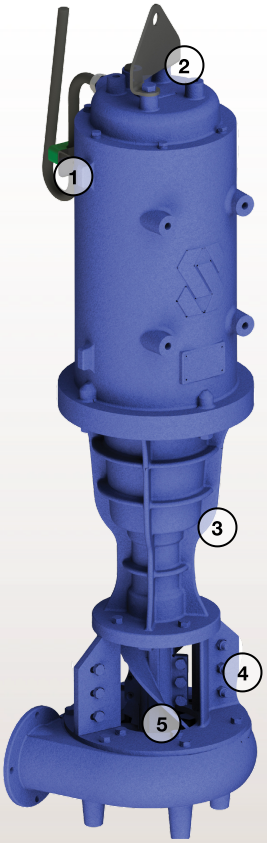

1 Electrical cable with strain relief system




**TRIPLE CHOPPING SYSTEM**

Chopping operated by:

- Pair of counter-knives
- Pair of shear bars
- Counter rotor







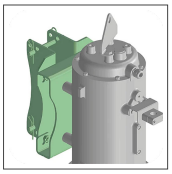
2 Lifting bracket



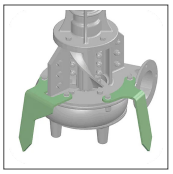

3 Oil-bearing drive unit

4 Counter rotor, counter knives and shear bars manufactured from treated and hardened material

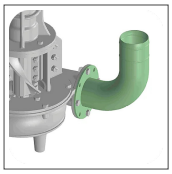
## Accessories



Pole-mounting kit

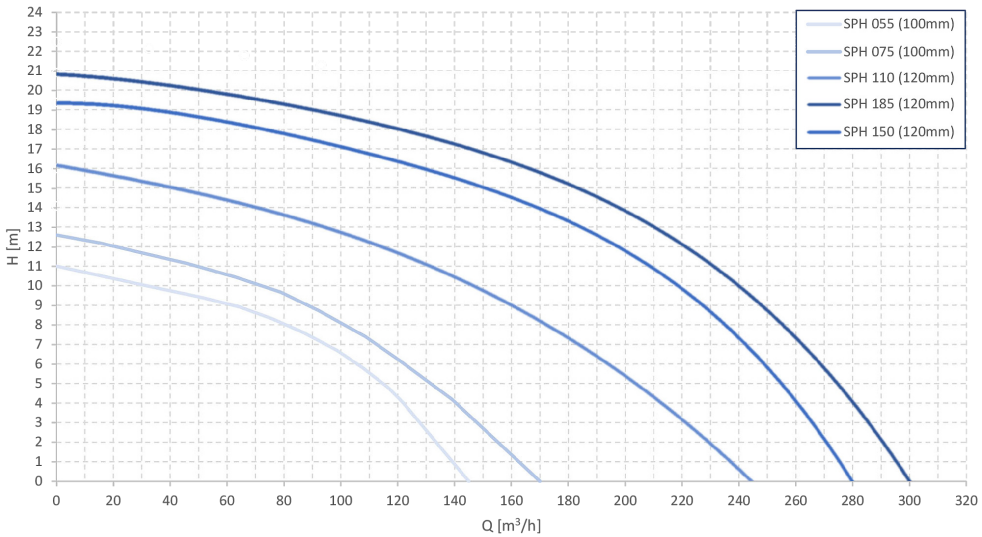


Free-standing mounting kit



90°-elbow for quick installation

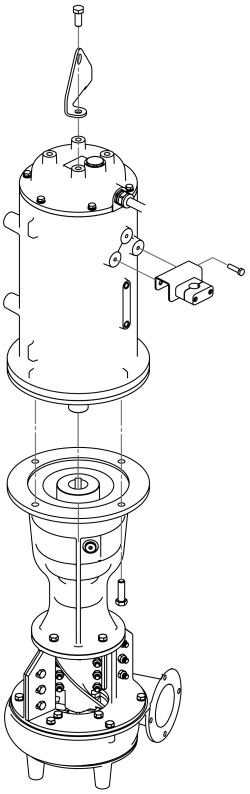
## Product Range Performance




* Values measured with clear water at 20 °C.

Results may vary by changing the operating conditions depending on the flow rate, density and viscosity of the liquid, the type and dry matter content of the manure (depending on type of animal feed), the height and distance of the support as well as the diameter of the pipe.

## Modular Design





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