



smicon

improve the process

improve the future



AFTERTREATMENT



CS300

After the depackaging process with the SMIMO, it is possible to post-treat the organic flow using the CS300 cyclone separator to create the highest possible quality and degrit your organic product. Degritting your organic product reduces wear on your pumps and settling material in your digester tanks. The Smicon CS300 cyclone separator is designed to separate heavy solids from liquids with an organic fraction. Heavy parts such as glass, grit, bones, stones and other particles are separated. The system consists of a Smicon centrifugal pump, a cyclone separator, a distribution system and a drum separator including the necessary control (software).



- ▶ Available in stainless steel ▶ Easy access for cleaning and maintenance
- ▶ High clean organic output, ready to be used for biogas production
- ▶ >90% efficiency in separating heavy particles ▶ Usable for products with max. 22% dry matter



INPUT
ORGANIC OUTPUT
FROM SMIMO



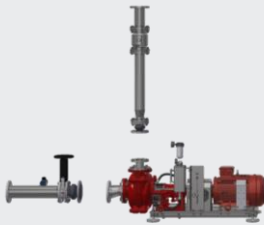
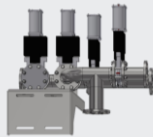

OUTPUT
ORGANIC
STREAM AND
HEAVY PARTICLES

CS300

TECHNICAL DATA

Dimensions	
Machine general	6000 x 1600 x 4000mm (LxWxH)
Infeed	DN150
Outfeed (Heavy part)*	Pallet box
Outfeed (organic)	DN100
Transport dimensions	
Cyclone:	3000 x 1600 x 2650 mm (LxWxH)
Pump, frame, distribution system and other parts:	4000 x 3200 x 1500 mm (LxWxH)
Clearance area	8000 x 3600 x 4000 mm (LxWxH)
Weight	
Weight	Cyclone + distribution system + frame: 800 kg Dewatering drum: 625 kg Centrifugal pump: 425 kg
Floor load per foot	Cyclone: 3 kN Drum: 4,3 kN Pump: 1,1 kN
Floor pressure	Cyclone: 19 N/cm ² Drum: 27,5 N/cm ² Pump: 6,9 N/cm ²
Transport weight	Total including packaging approx. 2100 kg
Drive	
Power including all options	26,6 kW
Main drive centrifugal pump	22,0 kW
Drum drive	0,55 kW
IP rating	22 kW drive main pump: IP66 4 kW drive pump dewater drum: IP55 0,55 kW drive dewater drum: IP66
Control (other screen size or language on request)	
Screen	9" Touchscreen
Available languages	English/German/Dutch
Product information	
Max. capacity	80 m ³ /hour
Product temperature	1-70 °C
Other specifications	
A-weighted sound pressure level	<70 dB
C-weighted instantaneous sound pressure	<130 dB

*Stones, glass, pieces of bone, uncooked seeds (corn etc), shells of seafruit, eggshells, small pieces of metals

Included	
Centrifugal pump unit	Distribution system
	
	Service box
	
Clearance and illustrations	

