



- a strong solution for the environment



PRE-TREATMENT OF ORGANIC FOOD WASTE

SMICON, a company from the Netherlands, manufactures bioseparators for the pre-treatment of organic food waste into biogas. The machine/plant can pre-treat both packaged and unpackaged waste from households, companies and shops. Water or other suitable liquid is added in the bioseparator, which gives the slurry the desired dry matter content and texture. The slurry is then pumped directly to sanitization or storage tank.

Data

- Low energy consumption <7 kWh/ton
- High capacity 8-20 ton/h (depending in input)
- Slurry that meets the demands of SPCR 120

Features

- Compact design
- High reliability and easy availability
- Low operating costs
- High continuous capacity
- Fully automatic process
- Low sound level



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ReTec develops, constructs and manufactures special machines for the waste and recycling industry. We offer practical solutions to our customer's needs, helping them increase profitability in their business.

Examples of organic food waste

- Collected food waste in paper or plastic bags
- Collected food waste from households
- Packaged foods
- Non-packaged food waste
- Canned foods or food in canning jars

Examples of diluents

- Clean water or collected water
- Fat waste
- Drained water

ReTec has extensive experience in building complete pre-treatment plants for source-sorted organic refuse collection. Together with customers and suppliers, we are constantly developing the technology with the aim that ReTec's pre-treatment plant will be the natural choice when we process organic food waste in Scandinavia.

Organic food waste is tipped into a feeding hopper fitted with a bottom screw. From the feeding hopper, the food waste is transported to the bioseparator via a screw conveyor. The bioseparator processes the food waste together with the diluent and separates the organic waste from packaging and other non-organic material. The separator has been designed and developed for gentle treatment of organic waste and separation of packaging, and with a screen that is self-cleaning. The organic mass flows through a screen, and the slurry is then pumped, either directly to gasification or to a storage tank. The reject material comes out of the bioseparator and is transported via a screw conveyor for collection in a container.

The bioseparator is also available in stainless steel.

