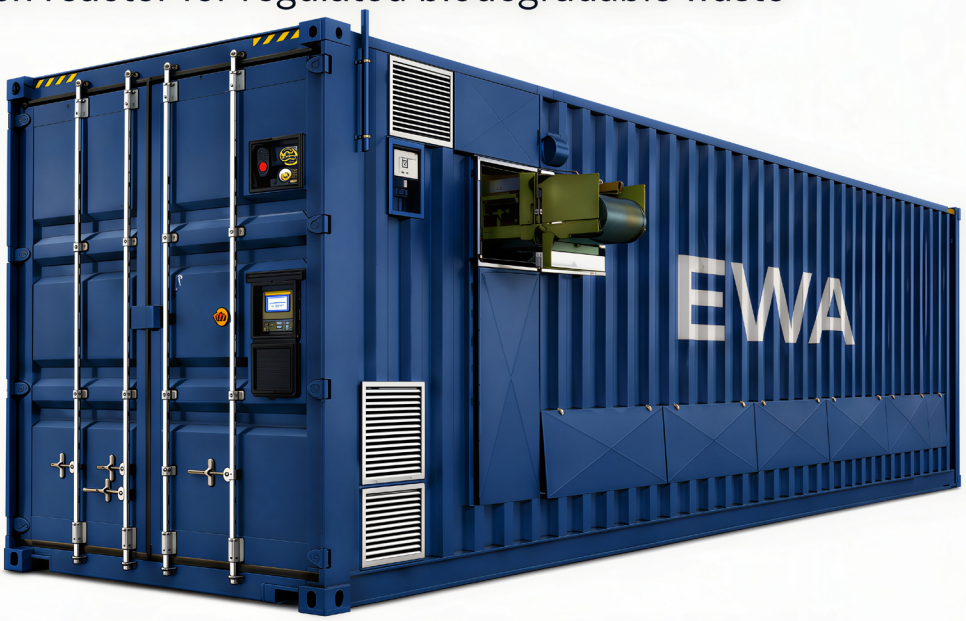
SOLBIEN

AEROBIC FERMENTATION TECHNOLOGY

EWA

Certified batch reactor for regulated biodegradable waste



EWA is a certified in-vessel aerobic fermenter for controlled processing of regulated biodegradable waste streams. Built into a modified 40 ft High Cube ISO container, it combines enclosed operation, automatic process control, internal loading and unloading, aeration, temperature monitoring and remote access in one compact unit.

Designed for food waste, animal by-products, sewage sludge and other biodegradable materials requiring documented sanitization performance under controlled process conditions.

1,500 t/year	Batch	Regulated waste streams
Capacity	Process	Best fit

Certified sanitization

Verified process performance for regulated biodegradable waste streams.

Plug-and-play ISO containerized unit

Delivered as a compact 40 ft High Cube container unit with integrated process technology.

Built-in loading and unloading

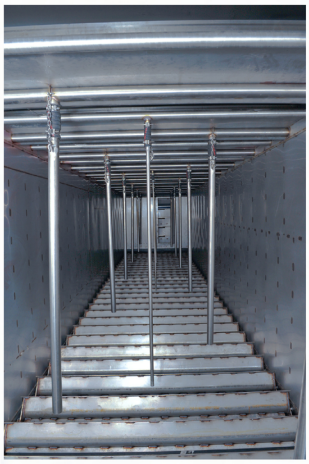
Integrated material handiing reduces the need for esternal machinery during the process cycle.

Typical applications

- Food waste from restaurants, canteens and catering facilities
- Wastewater treatment plant sludge
- Animal by-products under applicable regulations
- Biodegradable municipal waste
- Agricultural and food-processing organic residues
- Biodegradable materials requiring controlled sanitization

BAT TECHNOLOGY

EWA — Technical Specifications & Process Data



Technology type	in-vessel aerobic batch fermenter
Container format	Modified ISO 40 ft High Cube
Functional internal volume	36 m^3
Processing capacity	1,500 t/year
Length	12,192 mm
Width	2,438 mm
Height	2,896 mm
Empty weight	approx. 14,8 t
Masimum full weight	approx. 32 t
Power supply	3 / PEN 400 / 230 V, 50 Hz
Process control	Automatic process control with touch interface
Monitoring	Temperature and oxygen monitoring
Remote access	Intemet / remote monitoring and diagnostics
Process duration	Rapid batch process; duration depends on input material and required output
Typical operation	Sanitization / stabilization / compost or biofuel preparation

Process description

EWA uses controlled aerobic thermophilic fermentation inside an enclosed containeriaed process chamber. Prepared input material is loaded into the unit, where controlled aeration, internal material movement, temperature monitering and process control support rapid stabilication and sanitication.

The biological process generates heat naturally under aerobic conditions, reducing the need for extemal heat sources. The process can be monitored and supported remotely, with data available for operational control and documentation.

EU ETV verified technology

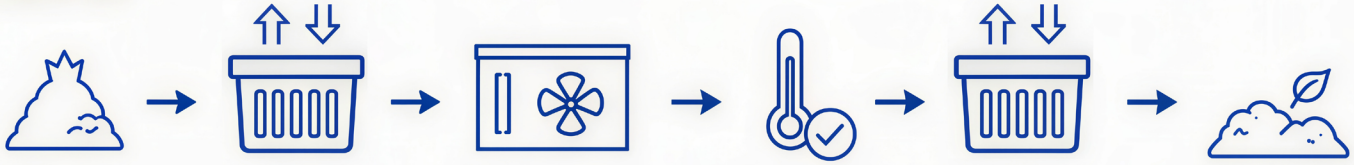
EWA technology has been verified under the EU Environmental Technology Verification scheme for controlled sanitization and stabilization of regulated biodegradable waste streams under defined operating conditions.

Documented process control, temperature monitoring and compliance support for regulated biodegradable materials.

Installation requirements

- Flat reinforced surface for placement and service handling
- Reofing or unheated hall recommended
- Three-phase electrical connection
- Internet recommended for remote monitoring and diagnostics
- Access for loading / unloading and service operations

Process fiow



www.solbien.com

SOLBIEN a.s., Dvořákova 1041/15, 702 00 Ostrava, Czech Republic