

BIOCON

Mobile aerobic unit for biodegradable waste



Optional off-grid operation

Photovoltaic configuration available

BIOCON is a mobile aerobic container unit for cost-efficient local treatment of biodegradable waste. Built on a hook-lift / AB-roll compatible frame, it enables municipalities and local operators to process biowaste close to its source, reducing transport needs and supporting circular waste management.

The unit combines an enclosed insulated chamber, controlled aeration, temperature monitoring, remote access and optional off-grid operation in one compact mobile system.



Capacity
1,000 t/year



Process
Batch



Best fit
Municipalities



Simple operation

Basic start/stop control with straightforward mechanical operation and optional automatic process control.



Fast temperature rise

A patented aeration method with optional preheating supports rapid temperature increase, including winter operation.



Connected monitoring

Mobile, tablet and PC access with online process data, fermentation records and hygienization temperature documentation.

Typical applications

- ✓ Municipalities and small towns
- ✓ Municipal collection yards
- ✓ Decentralized biowaste treatment
- ✓ Local treatment of food waste and green waste
- ✓ Remote locations without standard infrastructure
- ✓ Seasonal or distributed biodegradable waste streams

BIOCON — Technical Specifications & Process Data



TECHNICAL SPECIFICATIONS

Technology type	Mobile aerobic container unit
Process type	Batch aerobic fermentation / sanitization
Functional volume	29 m ³
Empty weight	3.5 t
Maximum batch weight	17 t
Dimensions (L x W x H)	6500 x 2500 x 2650 mm
Transport	Hook-lift / AB-roll compatible frame
Power supply	230 / 400 V
Standby power consumption	30 W
Power consumption during aeration	80 W
Power consumption – optional preheating	2 – 6 kW
Control	Automatic process control with manual panel and remote access
Monitoring	Continuous temperature monitoring
Connectivity	GSM / Wi-Fi / web browser access
Data	Batch history and process data backup
Optional feature	Off-grid photovoltaic configuration

TECHNOLOGY FEATURES

- ✓ Thermal insulation including floor and lid
- ✓ Stainless steel working chamber
- ✓ Self-cleaning aeration during unloading
- ✓ Leachate recirculation
- ✓ Automatic process control
- ✓ Electric lid lifting
- ✓ Biofiter integration option
- ✓ Remote access and online monitoring
- ✓ GPS location and online tracking
- ✓ Independence from electrical grid
- ✓ Optional feedstock preheating



Hygienization support

BIOCON supports hygienization and treatment of biodegradable waste streams, including catering waste, in accordance with EU Regulations (EC) No. 1069/2009 and (EU) No. 142/2011, subject to operating configuration and local regulatory requirements.

Fermentation protocol and hygienization temperature record can be generated for each batch.

SUITABLE INPUT MATERIALS

- Municipal biowaste
- Food waste
- Kitchen and restaurant biowaste
- Greens, twigs, grass, leaves and garden residues
- Agricultural organic residues
- Prepared biodegradable mixtures suitable for aerobic processing

OUTPUT OPTIONS



Depending on the input recipe, process settings and local regulations, BIOCON can produce stabilized and sanitized organic material suitable for further compost maturation, soil improving use or downstream processing.

INSTALLATION REQUIREMENTS



- Hard, level handling area
- Access for loading and unloading
- Power supply or optional off-grid configuration
- Integrated blower / aeration system

OPTIONAL EQUIPMENT



- Biofiter integration
- Leachate recirculation system
- Feedstock preheating system
- Additional monitoring sensors

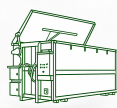
PROCESS FLOW



Input material



Loading



Enclosed aerobic fermentation



Sanitization / stabilization



Unloading



Compost maturation



www.solbien.com

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

MOBILE UNIT