



interseroh
zero waste solutions

Composting machines

food waste | biodegradable waste | CAT 3 waste





About our Company

Interseroh is an international consulting company present on the Polish market since 2006. We offer comprehensive environment protection, packaging recycling and waste management optimisation services. Our company is also active in the CSR area, and offers innovative green solutions for companies, as well as “tailored” environmental education campaigns.

In Poland, our company has three branch offices: in Warsaw, Krakow and Łódź. At present, Interseroh provides its services to more than 4,000 companies in Poland.



Dear Sirs,

In this offer we are going to present modern and green ZERO WASTE solutions, the purpose of which is **to prevent wasting of disposed food waste.**

Composting is the best method to transform food waste into pre-compost, a precious organic raw material for further use in the environment.

In Interseroh, according to the philosophy of operation of our company, we bet on closed circulation of waste. We offer innovative business solutions ensuring effective and green waste management within an organisation. This is why we recommend to you the offer of OKLIN composting machines.

It is a novelty among available on the market composting equipment, an alternative for sink mills or traditional composters. Their top advantage is **the time to up to 90% reduction of the waste weight in just 24h**, as well as **practically automatic operation**, and **limitation of unpleasant odours** associated with the process of decomposition of food waste in traditional composting equipment.

The diversified offer of OKLIN products will be an ideal solution both for households and corporate users, for whom caring for the environment, functionality and optimisation of waste management costs is the core of corporate environmental responsibility.

Yours sincerely,

Anna Grom

President of the Management Board of Interseroh

Effective management of waste within an organisation

An effective method of hygienic and environmentally friendly disposal of biodegradable waste just within 24h!



INNOVATION serving the environment

A composting machine is a bin based machine, which thanks to innovative organic technology, mixing process and proper temperature within 24h process biodegradable waste into pre-compost with up to 90% weight reduction.



ECONOMIC

The use of state-of-the-art composting machines contributes to significant reduction of costs and the weight of the waste produced at your company



AUTOMATIC

Comparing to traditional solutions, OKLIN machines

- are easy to operate - practically automatic
- provide much shorter composting time
- are quiet and do not emit onerous noise

State-of-the-art composting machines



OKLIN is one of the world leading suppliers of innovative solutions for food waste management. The company is formed by a team of enthusiasts - microbiologists and mechanical engineers, for whom the desire to create environmentally friendly business solutions results from their passion for creative work, but most of all from their will to transform waste into something useful.

OKLIN offers a broad range of composting machines differing in respect of the customer profiles and the capacity.

Perfect solution for:

**OFFICES, INDIVIDUALS
AND SMALL CATERING OUTLETS,
i.e. places...**

producing daily 1-25 kg of food waste



1-25 kg



OKLIN GG-02

OKLIN GG-10s

**INDUSTRY AND SERVICES, HORECA
AND SCHOOLS,
i.e. places...**

producing daily 80-125 kg of food waste



80-125 kg



OKLIN GG-30s/50s



OKLIN GG-02, GG-10s perfect for:



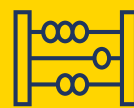
OFFICES



HOUSEHOLDS



**SMALL CATERING
OUTLETS**



**NURSERIES,
KINDERGARTENS**

SMART line

for small business and households, i.e. places producing daily moderate amounts of waste, i.e. 1-25kg

Why OKLIN GG-02, GG-10s?

- A perfect alternative for waste bins or sink mills
- Preselection of food waste not necessary
- Refuse material does not waste in plastic bin bags
- Limitation of unpleasant odours associated with the decomposition of food waste
- Small size
- Broad range of biodegradable waste can be composted (fruit, vegetables, meat products, fish-bones, soft bones, shells, liquid food, bread-stuffs, pasta and noodles, grains, dairy products, sweets, coffee-grounds, paper towels and other)
- Produces pre-compost for further use in the environment in a short time

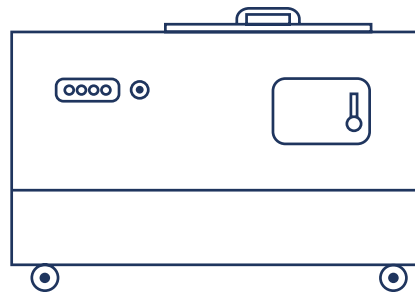
GG-02



Dimensions: 40 (L) x 40 (W) x 78 (H) [cm]

Daily charge	5 kg
Capacity / year	2 tons
Composting time	24 h
Weight reduction	80-90%

GG-10s



Dimensions: 116 (L) x 62 (W) x 103 (H) [cm]

Biofilter dimensions: 41 (L) x 58 (W) x 98 (H) [cm]

Daily charge	25 kg
Capacity / year	10 tons
Composting time	24 h
Weight reduction	80-90%



OKLIN GG -30s, GG-50s, perfect solution for:



HOTELS



RESTAURANTS



STORES



RESIDENTIAL
ESTATES



CANTEENS /
CAFÉS



SUPERSTORES



MANU-FACTURING
PLANTS

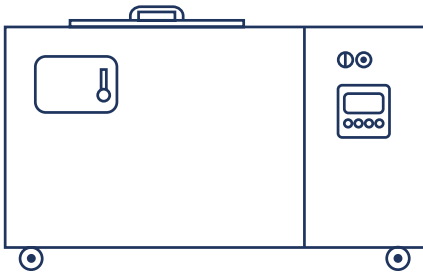
BUSINESS line

for HoReCa, retail chains and industry, i.e. places producing daily significant amounts of waste, i.e. 80-125kg

Why OKLIN GG-30s, GG-50s?

- Innovative technology
- Long service life
- Maintenance service in Poland
- Easy maintenance
- Nano-deodorisation system absorbing and reducing odours
- Broad range of biodegradable waste can be composted (fruit, vegetables, meat products, fish-bones, soft bones, shells, liquid food - e.g. goulash soup, bread-stuffs, pasta and noodles, grains, dairy products, sweets, coffee-grounds, paper towels)
- Up to 90% waste weight reduction in just 24h

GG-30s

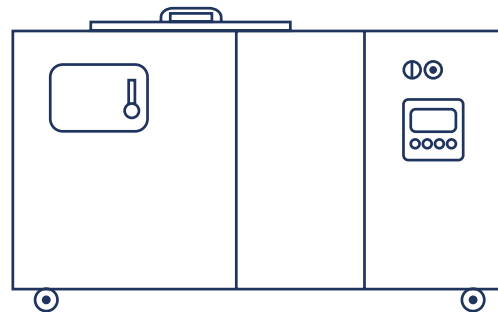


Dimensions: 196 (L) x 87 (W) x 125 (H) [cm]

Biofilter dimensions: 51 (L) x 80 (W) x 130 (H) [cm]

Daily charge	80 kg
Capacity / year	30 tons
Composting time	24 h
Weight reduction	80-90%

GG-50s



Dimensions: 215 (L) x 106 (W) x 135 (H) [cm]

Biofilter dimensions: 51 (L) x 80 (W) x 130 (H) [cm]

Daily charge	125 kg
Capacity / year	50 tons
Composting time	24 h
Weight reduction	80-90%

Composting what, how and why?



What happens with food waste (biowaste) after putting it into the machine?

Three factors have effect on the waste put into the machine: temperature, movement (i.e. mixing), and Acidulo® microorganisms. Thanks to them, food waste is transformed into pre-compost. The temperature ensures the pre-treatment of the waste and creates favourable conditions for the microorganisms transforming biowaste into pre-compost.

What is the amount of food waste that can be processed by OKLINmachine?

1-125 kg/day, depending on the machine model. It is enough to accept the biowaste produced by a small catering outlet or an average family, or even a larger industrial plant.

What type of waste can I process in the composting machine?

You can charge the composting machine with all types of food waste a man can digest, including meat and products unsuitable for human consumption, e.g.: rotten food, small soft bones (e.g. chicken bones) fruit, vegetables, meat products, fish-bones, shells, liquid food (e.g. goulash soup), bread-stuffs, pasta and noodles, grains, dairy products, sweets, coffee-grounds, paper towels, and even organic cage bedding and cat litter.

How is it possible that the machine processes meat?

The machine itself would be unable to do it. It is possible to process such waste thanks to special Acidulo® microorganisms. Thanks to their presence, the machine processes into pre-compost also the waste, with which traditional composters and vermicomposter can't cope. As it usually is in the nature, special conditions create a special ecosystem. OKLIN creates



conditions, in which biowaste characteristic for typical households, catering outlets and retail chains can be processed.

What conditions of use are required by the composting machine?

The situation of the composting machine should be convenient and it should enable the installation of a drainage hose. As in the case of other household appliances, you must remember about the access to a source of power. Which is important, the machine is hermetic, which reduces the emission of undesirable odours.

Are the Acidulo® micrograms safe? Do I have to specially care for them?

The Acidulo® microorganisms are completely safe, tested and admitted to use. They are delivered in special inserts with sawdust that are placed in the machine. Only upon the first start of the machine,

there is a two-week adaptation period.

During that time, food waste should be charged gradually, starting with ca. 20% of the machine capacity and then increased during two weeks maximum to the full capacity of the machine.

What is the difference between pre-compost and compost?

Because Acidulo® work fast and more efficiently, the result of their 'work' is concentrated. This is why we call it pre-compost. It is the best to mix it with soil in proportion 1:10 - in such case it will prove to be a perfect fertiliser for plants grown in pots, or garden lawns. Pre-compost can also be kept for later use - just place it in a bag, and close it tightly.

Why is it worth to compost food waste?

Composting is the best method to transform food waste into pre-compost, a valuable fertiliser.

Modus operandi of OKLIN machines

Composting bin

Biodegradable waste is placed in a special bin, which is additionally equipped in rotating blades that mix the bin content, the same ensuring its proper circulation and even distribution

Hygienisation

Considering the need to ensure safety, the temperature in the bin is raised to 75 degrees Celsius for one hour. The purpose is to eliminate harmful bacteria, the same ensuring safety and preventing spreading of the bacteria outside the bin



Technology and Acidulo™ microbes

Thanks to the use of a unique technology combined with Acidulo™ microbes, biodegradable waste is composted in just 24h with simultaneous 80%-90% weight reduction. Obtained pre-compost can be reused.

Automatic operation

OKLIN GG-30s / 50s composting machines ensure natural and fully automated - practically unattended - 24h composting process.

More information about waste management in business can be found at www.interseroh.pl

OKLIN in practice

OKLIN GG-30s composting machine was started at one of the chains of food stores in Poland at the end of October 2017.

After 2 weeks of use, the following results were achieved:

Date	Weight [kg]	Volume [L]	BIO/KAT3	Process
2.11	104	230	BIO	Charging
3.11	70	190	BIO	Charging
4.11	75	200	BIO	Charging
5.11	75	200	BIO	Charging
6.11	75	200	BIO	Charging
7.11	75	200	BIO	Charging
8.11	60	200	BIO	Charging
8.11	15		KAT3	holiday
9.11	75	200	BIO	Charging
10.11	85	210	BIO	Charging
11.11	0	0	0	Charging
12.11	75	200	BIO	Charging
13.11	35	50	BIO	Charging
13.11	15	0	KAT3	Charging
14.11	75	200	BIO	Charging
15.11	container full			
TOTAL	909	2280		
16.11	115	210		Emptying
Effectiveness [%]	13%	9%		
Reduction [%]	87%	91%		

Summary:

During **14 days** OKLIN GG-30s composting machine was charged with 909 kilograms of waste with total volume of 2,280 litres. In the result of the composting process, 115 kilograms of pre-compost with the volume of 210 litres were obtained. The result of the machine operation was up to **87%** reduction of weight and **91%** reduction of volume in 2 weeks of use. It confirms the effectiveness of the use of OKLIN machines at outlets producing large amounts of waste.



OKLIN GG-30s

**STUDIUM
PRZYPADKU**





Interseroh – an expert in the protection of the environment and recycling, a supplier of comprehensive services to the circular economy

For 27 years, the solutions of Interseroh in the sphere of recycling and waste production prevention has been setting the standards for the entire sector in Europe. At Interseroh, we value long-term business relationships with our partners, and this is why we continuously develop and tailor our offer to individual needs of our Customers and the industry. We invest in innovations and use a creative approach to the issue of sustainable development. Thanks to it, we deliver tailored environmental solutions fully suited to the individual needs of each company.

Our advantages:

- Innovative business solutions
- More than 20 years of experience on the European market
- Tailored solutions and environmental project for each business
- Experience in providing services to large companies from various sectors





Interseroh is the exclusive distributor
and representative of OKLIN brand in Poland

WE INVITE YOU TO CONTACT US

**INTERSEROH
Poland**

ul. Wiertnicza 165
02-952 Warszawa
+48 22 742 10 29

ALBA Group