

Qompost

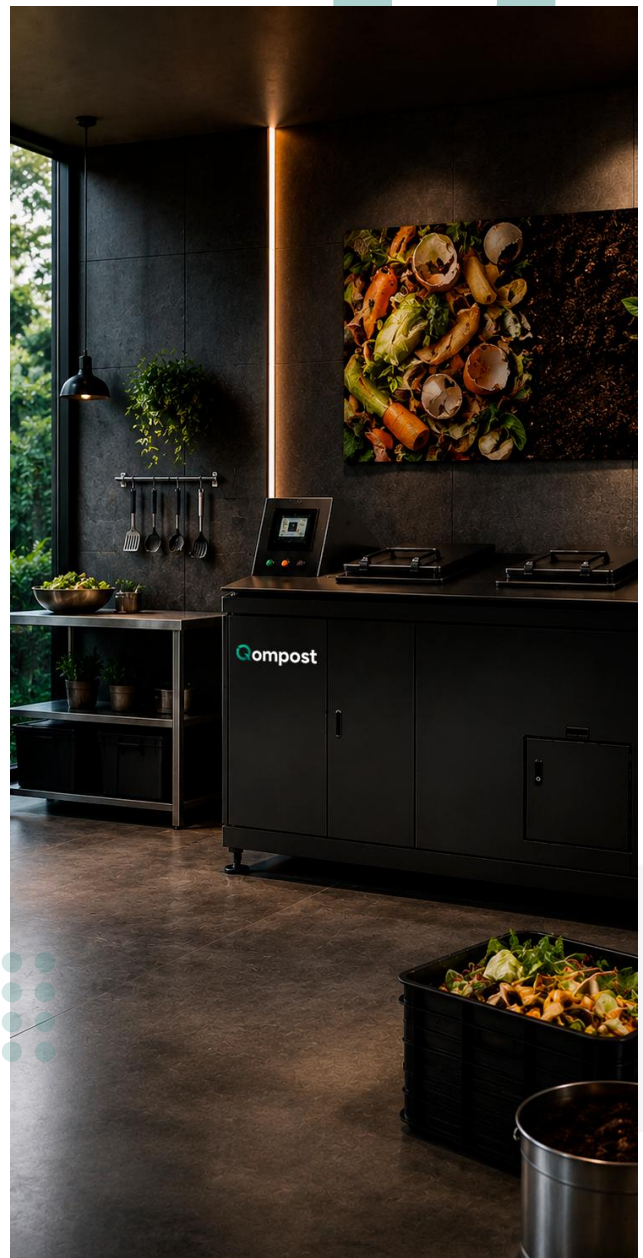
Company/Product Presentation



1. Executive Summary

Qompost has fully developed a unique system for the sustainable disposal of food waste.

At the core of the system are machines that reduce food waste—primarily from gastronomy, the hotel industry, and food production—**by 80% to 90% within approximately 24 hours**, leaving behind a valuable compost concentrate.





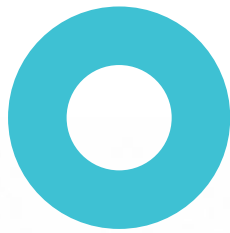
Q10 Model



Q500 Model

Compared to conventional disposal, the system offers four major advantages:

- **On-site Reduction:** The local reduction of food waste leads to substantial cost savings in storage, transport, and disposal.
- **CO₂ Reduction:** Thanks to the aerobic micro-bacterial composting method, CO₂ emissions are reduced by approximately 450 kg CO₂-eq per ton of bio-waste.
- **Unique Hygiene:** The Qompost system features exceptional hygiene; it does not attract any pests, and the resulting compost concentrate is virtually odorless and completely dry.



2. Company Description



Qompost is headquartered in **Zug, Switzerland**, and specializes in developing sustainable, technologically advanced solutions for the global waste management industry. The vision of Qompost is to play a leading role in the global transition to a circular economy by offering innovative composting solutions that help companies improve their environmental footprint and efficiently utilize waste. A central objective of Qompost is to prevent the loss of valuable biomass, which is frequently lost when food waste is disposed of in landfills or biogas plants. Biomass is crucial for our planet's ecological balance. Qompost machines actively help preserve these valuable nutrients by converting waste into high-quality compost that is returned to the natural cycle.



Through this approach, Qompost directly supports several of the United Nations' Sustainable Development Goals (SDGs), specifically:

- SDG 2 (Zero Hunger): By promoting sustainable agriculture.
- SDG 9 (Industry, Innovation, and Infrastructure): Through innovative solutions in waste management.
- SDG 11 (Sustainable Cities and Communities): By reducing waste.
- SDG 12 (Responsible Consumption and Production): By preventing the loss of biomass.
- SDG 13 (Climate Action): By reducing CO₂ emissions and keeping nutrients within organic cycles.
- SDG 15 (Life on Land): By promoting healthy soils and agricultural production.

The Qompost machines enable businesses of all sizes—from small restaurants to large industrial food producers—to manage their bio-waste responsibly while achieving substantial cost savings. Qompost does not see itself merely as a machine vendor, but as a partner for sustainable solutions that have a positive impact on both the environment and our customers' profitability.



3. Product Description

Qompost machines offer an innovative method for converting bio-waste into high-quality compost. By utilizing specialized microbes, the waste is decomposed within 24 hours inside a controlled environment. Factors such as humidity, heat, and the precise control of blade rotation (including their activation and deactivation phases) are strictly regulated and are critical to enabling the decomposition process within approximately 24 hours. Within this timeframe, the waste volume is reduced by **80% to 90%**, and the remaining material is turned into valuable compost that is ready for reuse.





Machine Functionality

- Waste Reduction:** Qompost machines reduce the volume of bio-waste by 80% to 90%. The remainder is high-quality compost concentrate.
- Microorganisms:** The microorganisms decompose not only plant-based waste but also animal waste such as meat and fish—whether raw, cooked, or fried. Since the microorganisms multiply independently by consuming the food waste, they never need to be refilled.
- Odor- and Pest-Free:** Due to the use of microbes and the rapid conversion of waste into compost concentrate, pest infestation is prevented, and the odor remains virtually neutral.
- Simple Operation:** The machines can be continuously filled and require minimal maintenance.

The company has developed a total of **11 different versions** of the Qompost machine, ranging from the Q-30 (for 30 kg of food waste per day) to the Q-5000, which can metabolize 5000kg per day. Food waste can be continuously fed into the machines, eliminating the need for waste refrigeration. Each machine is designed to be filled for 7 consecutive days before it needs to be emptied. Because a calculated residual amount always remains in the machine, enough microbes are preserved inside the tank to immediately process the next batch of food waste.

Competitive Analysis: Decentralized vs. Centralized

PARAMETERS	CENTRAL WASTE DISPOSAL	LARGE-SCALE COMPOSTING	COMPOST SOLUTION
CO ₂ Balance	Extremely high (transport)	Moderate (logistics)	Minimal (on-site)
Hygiene Standard	Critical (storage)	Location-dependent	Highest (hermetic)
Cost Structure	Variable & increasing	Depends on distance	Predictable & fixed
ESG Rating	Low	Satisfactory	Outstanding (Tier 1)



4. Market Analysis

The global demand for composting solutions is growing steadily, which is unsurprising given the rising volume of food waste. Annually, roughly **1.3 billion tons** of food waste are generated worldwide, representing about **30%** of global food production. This equates to an average of **121 kilograms** of food waste per person globally each year, with the majority generated in households, restaurants, and food processing facilities.

A key driver of this demand is that **traditional food waste disposal is becoming increasingly expensive**. Landfilling and incineration costs are rising due to higher waste fees, escalating transport costs, and a growing scarcity of landfill space. Consequently, businesses are forced to look for more cost-effective and sustainable alternatives.

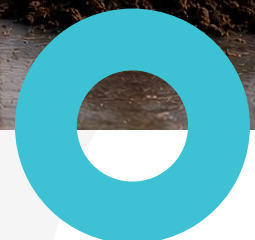
Simultaneously, **governments worldwide are tightening regulations** regarding bio-waste utilization. New mandates force businesses to view biomass as a valuable resource rather than simple garbage. These laws aim to halt the loss of organic resources, lower CO₂ emissions, and accelerate the transition to a circular economy.

Due to these shifts, the market for composting machines and solutions will be significantly larger than previously estimated. The market for composting machines is currently valued at over **€230 billion, growing at a CAGR of 6.5%**. Given the global momentum in waste management, the actual potential could extend far beyond this figure.

Regional Markets

Europe:

Europe leads the way in enforcing strict waste directives, pushed forward by the EU Circular Economy Strategy. Countries like Germany, France, Switzerland, and Italy are implementing comprehensive bio-waste utilization programs. Companies increasingly depend on technologies like Qompost to efficiently meet statutory requirements while lowering costs. Thanks to its well-developed waste management infrastructure, the European market provides an ideal breeding ground for advanced solutions that support the reduction of CO₂ emissions.



The market: Crisis-proof & High growth



Market Drivers in the EU

- ✓ Germany: Stricter organic waste regulations are driving up disposal costs.
- ✓ France: AGEC Law (2024) mandates organic waste sorting for all businesses and households.
- ✓ Resilience: Waste is generated regardless of economic conditions.

35+ million tons of annual organic waste in 6 core markets

Trash to Treasure

Redefining Waste Management

As leaders in recycling solutions, we are committed to not only enhancing businesses through sustainable waste management but also contributing to the greater good by promoting a circular economy



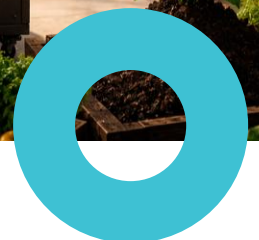
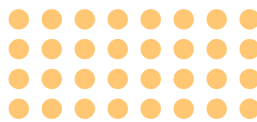
The hospitality industry generates significant daily food waste, leading to

- high costs
- Inefficiencies
- environmental harm



Tackling this challenge is essential for

- reducing expenses
- improving resource use
- minimising the industry's environmental impact



Food Waste Complexity



Cost

- Storage
- Disposal
- Time Invest



Efficiency

- Space
- Cooling, Drying and Grinding
- Manpower-intensive



Environmental Impact

- Landfills – no Circular Economy
- CO2 Emission
- Odour & Pest

The Solution

Responsible Composting with Economic Benefits

For industrial kitchens, residential communities, hotels, shopping malls, hospitals, educational institutions, agricultural industries, and more.





Food Waste Way Forward

Size & Capacity

- tailored to your needs
- 11 sizes that can treat
- 30 kg to 5000 kg daily

Material & Durability

- Heat-resistant, durable stainless steel
- For indoor and outdoor Set-Up
- Optional fit-out with solar panels
- CE (European Conformity) certified

Technology

- Innovative, German standards
- Compact, safe, and user-friendly
- Surpassing conventional waste management technologies

Profit Example

Comparison of Cost and Savings with and without **Qompost Composting**.

PERIOD	ACTUAL COST EUR	COST WITH QOMPOST EUR*	SAVING EUR
Month	1,200 ²	ca. 550 ³	650
Year	14,400	ca. 6,600	7,800
5 Years	72,000	ca. 33,000	39,000

MONTHLY COST

Actual



€1,200

Qompost



ca. €550

2 Cost savings refer to this specific example and are calculated based on consistent disposal costs from the waste management company, without accounting for any increases over the next **5 years**.

Costs may vary depending on the disposal fees of local waste management companies. Client cost for pest control are not included.

3 Acquisition costs (incl. electricity), are calculated on a monthly basis for comparison purposes.

Profit Example

Comparison of Cost and Savings with and without **Qompost Composting**.

PERIOD	ACTUAL COST EUR	COST WITH QOMPOST EUR*	SAVING EUR
Month	1,200 ²	ca. 490 ³	710
Year	14,400	ca. 5,880	8,520
10 Years	144,000	ca. 58,800	85,200

MONTHLY COST

Actual



€1,200

Qompost



ca. €490

2 Cost savings refer to this specific example and are calculated based on consistent disposal costs from the waste management company, without accounting for any increases over the next **10 years**.

Costs may vary depending on the disposal fees of local waste management companies. Client cost for pest control are not included.

3 Acquisition costs (incl. electricity), are calculated on a monthly basis for comparison purposes.

The Process

Organic waste is converted into certified compost.
Degradation within **24 hours**



Performance Advantages

1. Microbial Technology

- **Proprietary Microbe Blend**

a unique mix of high-resilience bacteria and microbes, engineered for maximum efficiency in organic waste breakdown.

- **Optimised Thermal Conditions**

The internal environment is calibrated for ideal microbial activity temperatures — accelerating decomposition and enhancing compost quality.

- **Precision Rotation System**

Smart control of rotation speed and frequency ensures uniform processing, maximising surface contact between waste and microbes.

- **Water-Free Operation**

Unlike most composters, our system requires no additional water to activate the microbes, reducing operational complexity and resource usage.

2. Engineered for Durability

- **Industrial-Grade Stainless Steel**

Built with premium, corrosion-resistant metals, offering long-term durability and stability under intense usage.

Structural Benefits

- Extended product lifecycle
- Lower maintenance costs
- Resistant to microbial corrosion and rust
- Insulated for better energy efficiency



Product Specifications

Tailored to your needs

PARAMETER	Q-30	Q-50	Q-100	Q-150	Q-200	Q-250	Q-300	Q-500	Q-1000	Q-2000	Q-5000
Daily organic input	30 Kg	50 Kg	100 Kg	150 Kg	200 Kg	250 Kg	300 Kg	500 Kg	1000 Kg	2000 Kg	5000 Kg
Average daily power consumption	5–6 KW	12–14 KW	16–20 KW	15–24 KW	20–31 KW	26–31 KW	30–36 KW	45–53 KW	58–64 KW	75–84 KW	100–144 KW
Size L × W × H in cm	88×93 ×55	120×90 ×110	153×78 ×110	165×85 ×115	218×165 ×103	235×179 ×140	236×179x 141	374×175 ×185	365×204 ×203	450×210 ×203	650×210 ×230
Weight	150 Kg	300 Kg	500 Kg	650 Kg	7200 Kg	900 Kg	1100 Kg	1,600 Kg	2,600 Kg	4,200 Kg	5,500 Kg
Monthly organic input	900 Kg	1,500 Kg	3,000 Kg	4,500 Kg	6,000 Kg	7,500 Kg	9,000 Kg	15,000 Kg	30,000 Kg	60,000 Kg	150,000 Kg
Annual organic input	10,800 Kg	18,000 Kg	36,000 Kg	54,000 Kg	72,000 Kg	90,000 Kg	108,000 Kg	180,000 Kg	360,000 Kg	720,000 Kg	1,180,000 Kg

Full range from compact 30 kg/day units to 5000 kg/day systems.

Designed for scalable on-site organic waste treatment across different operating environments.

The Benefits



Operational Efficiency

- Reduced storage space
- Reduced waste disposal
- Reduced time & manpower
- No waste cooling and drying



Business Performance

- Simple Process
- Directly on location
- Within just 24 hours
- Easy Set-Up and Use
- Minimal Maintenance



Greater Good

- Nutrient Rich Compost
- Emission free
- Residue free
- Energy-Saving
- Clean, Odourless and Pest-Free
- Distilled Water for Reuse

Enhancing Efficiency



Certification

We're committed to profitable and sustainable solutions.
Our compost quality is certified by leading industry experts



Raiffeisen

Raiffeisen's strong reputation in the agricultural sector makes them a go-to option for many farmers seeking reliable, high-quality products and services to support their agricultural endeavours.



Edeka

EDEKA is Germany's largest food retailer. The brand is synonymous with quality, freshness, and variety, appealing to health-conscious and sustainability-minded customers as well as those seeking good value. Its strong emphasis on local and regional sourcing, combined with innovative product offerings, reinforces its position as a leader in food quality within Germany's retail sector.



The Benefits



Compared to Landfills

Methane Production in Landfills:

Organic waste in landfills decomposes anaerobically, releasing methane (CH_4), a greenhouse gas 25 x more harmful to the climate than CO_2 .

✓ Qompost Composting prevents these emissions.

Qompost Saving Potential:

Approx. 0.8 to 1.2 kg of CO_2 per KG of organic waste diverted from landfills



CO_2 Emissions from Incineration:

Waste-to-energy plants release CO_2 when burning organic materials.

✓ Qompost Composting avoids these direct emissions.

Qompost Saving Potential:

Around 0.2 to 0.5 kg of CO_2 per kilogram of waste, depending on the energy recovery efficiency of the incineration plant.



Positive Effect

Carbon Sequestration in Soil:

Compost improves soil structure and promotes carbon sequestration, which helps capture additional CO_2 from the atmosphere.

Reduction in Fertilizer Use:

Compost replaces synthetic fertilizers, whose production and application generate significant CO_2 emissions. Each ton of compost saves 50 to 150 kg of CO_2 .

Composting 1 ton of organic waste, can save 400 to 500 kg of CO_2 – depending on the alternative disposal methods.

Circular Economy

A sustainable system where organic materials, such as food scraps and yard waste, are managed in a way that minimises waste and maximises resource recovery. Instead of being discarded into landfills, organic waste is transformed into valuable resources that can be reintegrated into the economy, creating a closed-loop system.



What Distinguishes Us

Qompost 

100% natural, environmentally friendly, energy efficient, economically viable, clean, easy and quick way to dispose of your organic wastes.

-  European Standards
-  Reliability
-  Usability
-  Service
-  Financing Models

What Drives Us

Qompost 

Who we are, what we stand for, and where we're headed

-  **Purpose**
Empowering businesses to enhance efficiency and profitability by transforming organic waste into valuable resources, driving sustainability and a greener future.
-  **Vision**
Lead the way in sustainable waste management
-  **Mission**
We offer an innovative and reliable waste management solution for the hospitality industry, boosting efficiency, environmental credibility and guest satisfaction.
-  **Values**
 - ✓ Responsibility
 - ✓ Innovation with Purpose
 - ✓ Efficiency
 - ✓ Engagement

Regulatory Compliance

We are committed to ensuring compliance with all national standards and regulations, prioritising quality, safety, and reliability in everything we do.



Officially approved

The device meets all requirements for import and operation in the Europe and the UAE.

- ✓ Legal
- ✓ Technical
- ✓ Safety



MORE INFORMATION



TW CONSULTING
& TRADE LTD.

TW Consulting & Trade Ltd. (Malta)

Wolfgang Tweraser
CEO/President

Tel EU: +356 2701 9052 (office)
Tel EU: +356 9942 9829 (mobile)
Tel UAE: +971 50 209 3055

wolfgang@TWCTMT.com
www.TWCTMT.com