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CASE HISTORY – Food industry

STRUCTURE
Il Ceppo srl - Gastronomic company for large distribution

CUSTOMER DATA		
pLACE	**Dimensions**	**Typologies**
Vicenza (I)	big dimensions	center for processing and preparing gastronomic dishes based on cod



PROBLEM

- It is of primary importance to eliminate bad smells from the waste collection and storage area (refrigerated cell)
- Reduce the presence of insects and wild animals (mice, cats and birds) that nest near the special waste containers (category 3)
- Reduce the frequency of collection of special waste containers (category 3) from 2 weekly to one every 2 weeks
- Reduce the frequent washing, conditioning and sanitization of bins dedicated to the collection of wet waste (almost entirely fish)
- Reduce the operating and maintenance costs of the cold storage cell
- Reduce the extra costs of sanitation and rodent control due to the presence of insects (flies) and rodents
- Finding a sustainable solution in line with the Group's policy of promoting Eco-sustainable structures capable of reducing the CO2 impact produced by its business.

In line with the new European directives aimed at pursuing the reduction of CO2 emissions, the structure has carried out a recent and radical restructuring of the systems and services among which the total energy self-sufficiency through the production of energy with the latest generation photovoltaic panels stands out.

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STRUCTURE DESCRIPTION

All the processing, preparation and packaging distribution is fully managed by the structure thanks to a fully equipped production area that starts with beating-soaking and then moving on to deliscing, preparation and cooking. Then we proceed with the packaging of the final product, storage and shipping.





All the daily preparation waste produced (almost totally fish / cod) 120-220Kg is collected in food plastic containers and immediately presents a bad smell and a tendency to putrescence, factors that become extreme in the summer season.

Type of organic waste in the bins Fish (mainly cod), vegetables and legumes, cheese (in very small quantities)

ORGANIC WET WASTE COLLECTION SERVICE

Collection is managed by the affiliated company for the recovery of Category 3 special waste. The frequency was bi-weekly with a flat-rate cost of € 150 per container.

They complained of bad smells, massive presence of insects (flies) and the containers were not very decent to the eye. Frequent cleaning and washing was therefore required with significant use of staff hours / work.



Presence of black boxes for rodent control in the pre-storage area of the bins near the refrigerated cell.

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SOLUTION ADOPTED

Purchase and use of an EFR 100 to manage all the organic wet waste produced daily by the facility + subsequent purchase of another EFR100 to manage increased waste in high season (waste greater than 200-220 kg / day). **Tot. No. 2 EFR 100**.



Installation of the EFR 100 in the external area adjacent to the preparation and packaging area. The machine improves its performance if installed outside thanks to an optimal activity of the condensing unit. The little condensed water produced is evacuated to the ground.



Average daily quantity of organic waste produced 120-180 Kg

Average daily quantity of resulting reusable product 20-30 Kg



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Impact on waste with use of EFR

- Annual organic waste produced: 37,000 - 40,000 Kg
- **Reduction of organic waste produced / year about 70%**
- **Kg of organic waste in less / year between 25.900 - 28.000Kg**

List of Advantages and Economic Savings (quantifiable)

- Total elimination of bad smells near the entire structure, **a value that cannot be quantified but has a great impact / image for the company**; essential for choosing the purchase of machinery
- Total elimination of the refrigerated cell used for the storage of organic waste (100%), **a value of approximately € 7-8,000**
- Total elimination of the maintenance and repair costs of the refrigerated cell **value equal to 1,200 € / year**
- Reduction of personnel costs for cleaning, reconditioning and sanitizing the refrigerated area (about 80%) **value equal to € 1,200 / year**
- Improvement of the decor and general cleaning of the external area of the structure, **a value that cannot be quantified but of great impact / image**
- Elimination of extra costs of periodic reclamation of insects (flies) and de-ratification (100%) **value € 1,500 / year**
- 70% reduction in collection costs for Special Waste (Category 3) **value € 9,500-10,000 / year**

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RESIDUAL DRAIN OPENING
at the end of the cycle
(inside the tank)

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STORED DRY SOLID
(later disposed of as waste Special - Category 3)
REDUCED BY 70%



