



SCARABEO SYSTEM
Powered by EntSORGA

SCARABEO™

AERATED BIOCELLS AND BIOFILTER

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FLEXIBLE AND RELIABLE, ENTSORGA HAS DEVELOPED THE SCARABEO™ SYSTEM TO EASILY ACCOMODATE TO ALL TYPES OF ENHANCED AEROBIC WASTE PROCESSING.

THE OXIDATION REACTION IS DRIVEN BY FORCED VENTILATION PROVIDED THROUGH UNDER FLOOR AIR DUCTS. THE USE OF A PROPRIETARY BIOFILTER GUARANTEES AN **EXCELLENT ODOR CONTROL.**

ENTSORGA
GREEN TECHNOLOGY REVOLUTION



ENTSORGA'S **SCARABEO™ SYSTEM** IS A **PROVEN AND RELIABLE SOLUTION** FOR A **SAFE, FAST AND CLEAN BIOSTABILIZATION** OF BIOMASS. SUITABLE FOR **MEDIUM-SIZED SYSTEMS** (WITH A CAPACITY OF 15,000 T/A), SCARABEO™ COMBINES THE ADVANTAGES OF A **COMPLETELY ENCLOSED PROCESSING AREA** WITH THE USE OF A PROPRIETARY **BIOFILTER**.

MAIN FEATURES

Entsorga's Scarabeo™ system consists of modular biocells with an aerated structure, a floor with embedded and special "nozzles" that allow for forced aeration and a roof in **PVC(1)** or **cement(2)**.

The material to be treated is accumulated in biocells, where the maturation is accelerated thanks to the **forced aeration system(3)**, managed by the Entsorga's control software, which distributes and regulates the air flow, guaranteeing the best temperature to sanitize the processed feedstock.

The process air is then aspirated and sent to the **biofilter(4)** to be treated before being released into the atmosphere.

STRENGTHS

- **Durability and high performance**, with low initial investment and maintenance costs
- **Easy installation**
- **Maximum reliability**, thanks to the automatic control system that records, processes and optimizes data from each single batch (temperature, time, quantity, wetting cycles, air flow, door opening and closing)
- **Minimal environmental impact**: no dispersion of materials due to rain or wind and excellent odor control thanks to the biofilter
- **Modularity and flexibility of use**: the technology can be easily adapted to different uses and types of waste to be treated
- **Standardization**: online continuous process monitoring at industrial scale guarantee efficiency, durability and ease of use

1. BIOCELL WITH PVC COVER



2. BIOCELL WITH CONCRETE COVER



3. FORCED AERATION SYSTEM



4. BIOFILTRO TO TREAT PROCESS AIR



APPLICATIONS

Without need for modifications, the Scarabeo™ system is suitable for all types of aerobic biological treatment:

- **COMPOSTING** the organic fraction of waste, digestate and sludges
- **BIOSTABILIZATION** of waste before landfilling
- **BIODRYING** of waste and biomass and subsequent production of Solid Recovered Fuel (SRF)



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