



## The mobile Biological-Drying system – small scale or trial solution for drying, stabilisation and composting

## The mobile Biological Drying unit – for newcomers



No. of heaps installed	<b>1 to 3</b>
Dimensions of each heap L x B [m]	<b>15 x 5 to 30 x 10</b>
Capacity per heap [m <sup>3</sup> ]	<b>110 to 600</b>
Space demand for two heaps and container [m <sup>2</sup> ]	<b>450 to 1350</b>

- first steps in testing the equipment
- train the handling of different waste fractions
- get successful in fine tuning the favored output.
- for low rental cost on a monthly basis
- very easy to handle
- requires no lengthy permitting
- plug and play in only 3 hours

# The Mobile Biological Drying System

The Container from inside



# Installation and Operation

1. Place aeration pipes



2. Build a heap



3. Cover the heap



4. Process phase



5. Uncover the heap



6. Fine processing/use



## Scope of ecojuglans

- 1. A 1 to 3 heap mobile biological drying system in a 20' CSC certified container**
- 2. System components:**
  - Biological Drying membrane
  - Temperature probe
  - Control unit with Biological Drying software
  - Mid-size fans
  - Accessories
  - Laboratory for identifying moisture contents
- 3. Operation supervisor for delivery, set-up, commissioning and operation. Presence at site during entire trial period for 6 days a week.**

## Scope of ecojuglans (2)

- 4. Documentation of trial activities by video/photo/written report**
- 5. Daily reports to site management including:**  
Daily log book reports in writing; to be signed jointly with site representative
- 6. Provision of binding quotation for a full scale Biological Drying concept including functional guarantees on drying performance to contractor**

# Scope of the Contractor

## Services (available on site):

### 1. Concrete pad (with or without roof)

- Dimensions 50 x 46,5 m (for three heaps version)
- Maximum slope 2%

### 2. Availability of waste samples of the main waste streams for field tests

### 3. Sample plan to be agreed

### 4. Unloading and loading of the mobile Biological Drying System on site for shipment of the system components

### 5. Power supply three phases 380 V for connection to the fans; all wiring works to blowers & control cabinet

## Scope of the Contractor (2)

**Services (available on site):**

- 6. Waste input material for two heaps of app. 600 m<sup>3</sup> each; in total 1,200 m<sup>3</sup> per cycle**
- 7. Weighbridge for input and output weighing**
- 8. Tele-loader for heaping up the waste input material**
- 9. All staff and machinery required for:**
  - set-up of system components
  - daily operation (including turning; if applicable)
  - commissioning and dismantling of the the Mobile Biological Drying System
- 10. Internet access (Lan or via GSM card) for remote access**



# The mobile Biological Drying system offers you ...

**... reliable answers for the following goals:**

- Fundamental results for your feasibility study
- Expected amount of recyclables & RDF value
- Substantial increase of throughput
- Enhanced odour management
- Reliable sanitation
- Reasonable weather protection
- Sustainable treatment of „difficult waste“ (sewage sludge, digestate, rakings)



Unlock the hidden value of waste

ecojuglans GmbH  
Otto-Hahn-Straße 21  
D-85435 Erding, Germany  
[www.ecojuglans.com](http://www.ecojuglans.com)  
[info@ecojuglans.com](mailto:info@ecojuglans.com)  
fon + 49 - (0)81 22 - 96 168 0  
fax + 49 - (0)81 22 - 96 168 19