



FinEco drum composting



COMBINATION OF TECHNOLOGY AND EFFECTIVENESS

FinEco drum composter treats various organic waste in continuous, fully automated process without human intervention. During this completely natural process, in short time (typically 7-14 days), amount of organic waste in mixture decreases by 30-50%. No chemical reagents, supplements or additional energy are necessary for producing high quality compost. End product is clean and hygienic and meets all official European Union directives.

Drum composter is designed for local use (stables, small towns or food industry) – it does not require large amounts of waste for equipment to work efficiently and profitably.

COMPOSTER IS SUITABLE FOR ORGANIC WASTE TREATMENT:

- Farming waste (pig, cattle, poultry, fur etc.)
- Various garden waste
- Sludge from water treatment plants
- Biowaste from food industry
- Fish farm waste
- Certain types of waste from oil/chemistry industry and polluted soil

THE END PRODUCT:

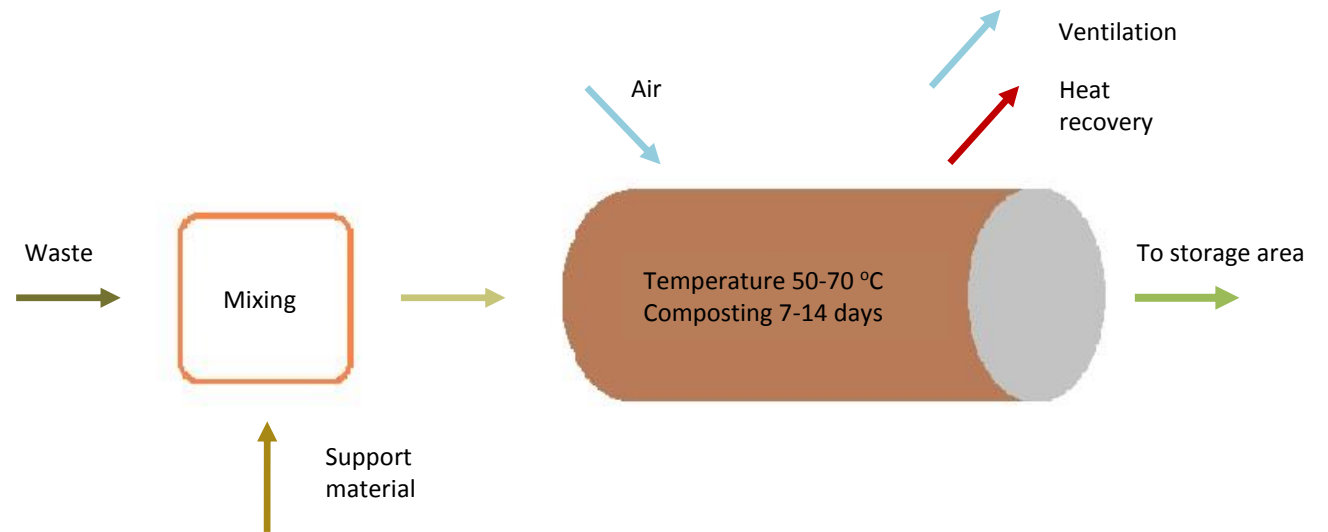
- Can be stored and sold
- Nutrients are bound very well and are in easily accessible form for plants
- pH ~ 7
- Does not attract vermin (birds, rats etc.)
- No pathogens (salmonella, listeria)
- No need for large composting fields or open storages
- Easy to store – no leakage, odors or necessity to turn
- Homogenous

COMPOSTING PROCESS

First of all waste is mixed with support material, which can be peat, straw or sawdust. It is necessary to add support material, because it is main source of carbon. It ensures proper mixture structure and oxygen and humidity concentration. Waste and support material mixing process is completely automated.

Then mixture of waste and support material is fed into aerated composting drum. Due to microorganisms activity, temperature rises to 50-70 °C inside the drum. Air is constantly supplied into the drum and its amount is regulated according exhaust air and temperature inside the drum. This way optimal conditions for composting process can be maintained.

High quality end product is transported to storage area via conveyors. Heat generated during composting process can be recovered and used for heating, drying or other purposes. The final compost is clean, odorless and hygienic product, which further matures in storage area, becoming cooler and fluffy.



Disadvantages of traditional composting:

Windrow composting

Structure
Precipitation and filtrate
Odor

In bag composting

Composting bags are not reusable
and causes additional plastic
waste which further increases
expenses

Tunnel composting

Very expensive

Advantages of FinEco drum composter:

Short composting time

Hygienised sludge free of pathogens

Does not take a lot of space

Closed system prevents odors and infiltration

Due to microorganisms compost has more nutrients and is easier for plants to absorb