

SPS Medium/Large Composting Unit (MCU/LCU).

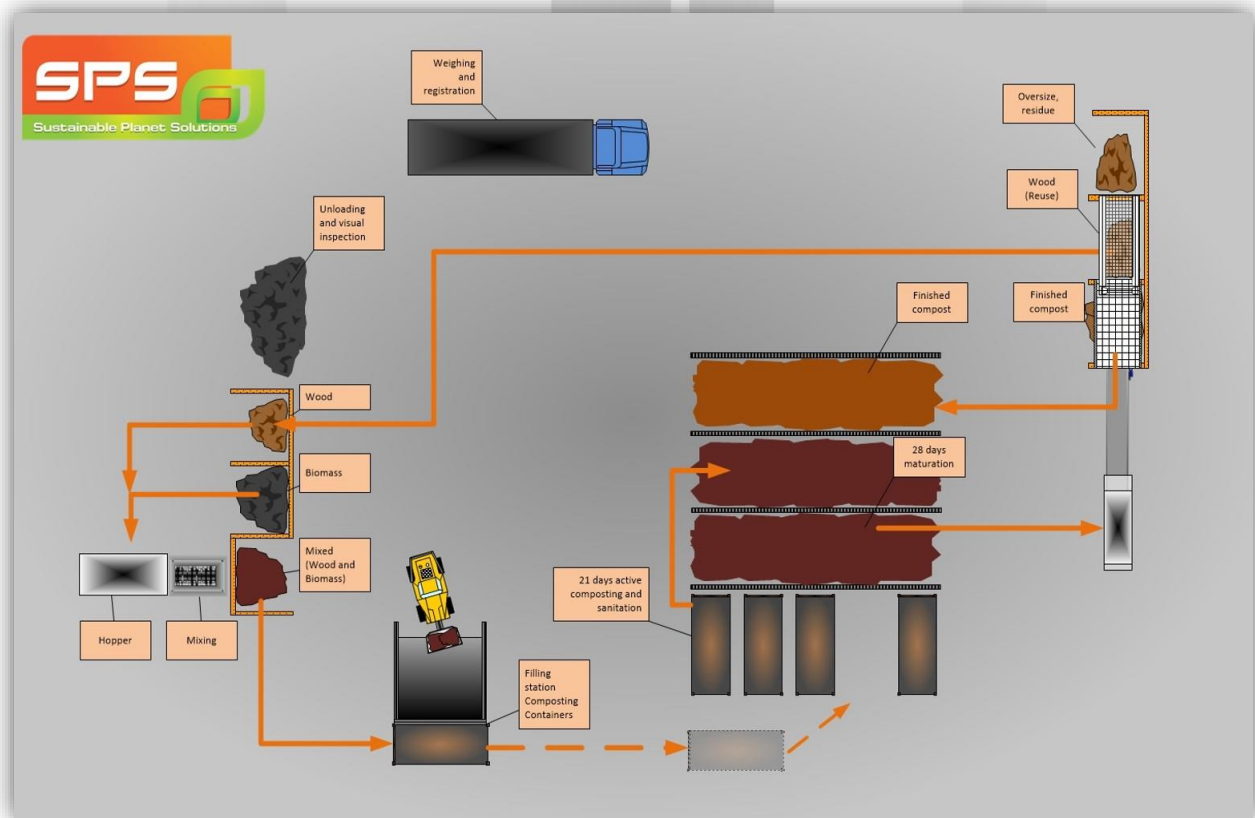
Introduction

SPS modular composting units are designed and built for composting of food & kitchen waste, manure, Source Separated Organics (SSO) and bio solids or sewage sludge in an entirely enclosed environment. Comprised of pre-treatment, conveyor, PLC-controlled composting units and refining: SPS systems handles waste from its raw or treated form to its final curing stage: conversion of Class B pathogenic organic waste into safely disposable and marketable Class A compost.

SPS pre-treatment of food & kitchen waste, manure and bio solids consists of mixing with structure material, such as wood chips. SSO needs to be opened up by a slow speed SPS shredder before going into the composting process.

At the heart of the SPS composting system are the modular airtight composting units provide highly efficient aerobic composting as well as cost-effective odor control by an internal biofilter and leachate containment. Composting is carefully controlled inside these composting units by a fully automated aeration control system that offers a variety of process control regimes.

After the enclosed composting process the material will be cured, stabilization of the compost, on an outside covered pad. Finally the compost will be separated by a SPS screen. The oversized fraction, mainly woody material will be reused as amendment.



Medium/Large Composting Unit (MCU/LCU)

The composting units are roll-off vessels that can be run individually or in parallel, the SPS composting system can be sized to fit facilities processing one to 50 tons of feedstock per day. Our MCU is specifically developed to process annual volumes between 500 and 3,000 mt of organic feedstock. The modular design means that facilities can initiate with only one MCU if they choose, and then bring more into the system as demand grows. The modular design also makes the SPS composting system extremely flexible in terms of responding to problematic batches of compost and peaks in processing demand.

SPS MCU Specification

- Length overall 6,0 m
- Width overall 2,4 m
- Height overall 2,6 m
- Process volume 38 m³
- Capacity 30 m³ (app. 80%)
- Weight app. 2.200 kg*

SPS LCU Specification

- Length overall 12,0 m
- Width overall 2,4 m
- Height overall 2,6 m
- Process volume 77 m³
- Capacity 62 m³ (app. 80%)
- Weight app. 3.800 kg*

Features

- Robust batch and therefore reliable system
- Maximum nuisance control
- Sophisticated process control application
- Modularity
 - up-front capital investment minimization
 - capacity to grow with demand
 - flexibility
- Maximum cost recovery
- Aeration Techn. Active Negative Aeration
- Automation PLC Process Control
 - On line Process control
 - Temperature monitoring
 - sanitation monitoring
 - Fault alarm

* : depending on option packages

Option packages:

- Cable or hook lift
- Steel roof (instead of standard membrane)
- All stainless-steel construction
- Cold-weather insulation package

