COMPOST MONTCLAIR

Organic Waste Management Using In-Vessel Composters



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HOW CAN DECENTRALIZED IN-VESSEL COMPOSTING HELP MUNICIPALITIES REDUCE FOOD WASTE AND CREATE A MORE LOCAL, CIRCULAR WASTE SYSTEM?



PROJECT MAIN GOAL:

- ✓ Divert food waste from incineration
- ✓ Reduce hauling costs and associated emissions
- ✓ Process organic waste locally
- ✓ Produce compost for local use



Why is it Important to

MANAGE ORGANIC WASTE

- Food waste makes up about **24% of the municipal waste stream,** making it one of the largest components of what we throw away.
- Roughly **40% of all waste generated could be composted.**
- Diverting food waste lowers disposal costs and saves the town $$$.
- Compost returns nutrients to the soil, improves soil structure, and supports local landscaping and urban forestry.
- Composting helps communities move toward waste reduction and sustainability goals while engaging residents in practical climate action.

WHY TRADITIONAL COMPOSTING ISN`T ENOUGH

- Takes a very long time
- Limit to what can be composted
- Requires additional labor
- Can attract rodents











Awarded: ~$241,000

LOCATIONS FOR SCHOOL COMPOST SITES:



Watchung School	2nd Ward
Bullock School	4th Ward


YES
NO




COMPOST ONLY


LIFETIME
BRUTE




THE HOME DEPOT

Rocket a500 in-vessel composter

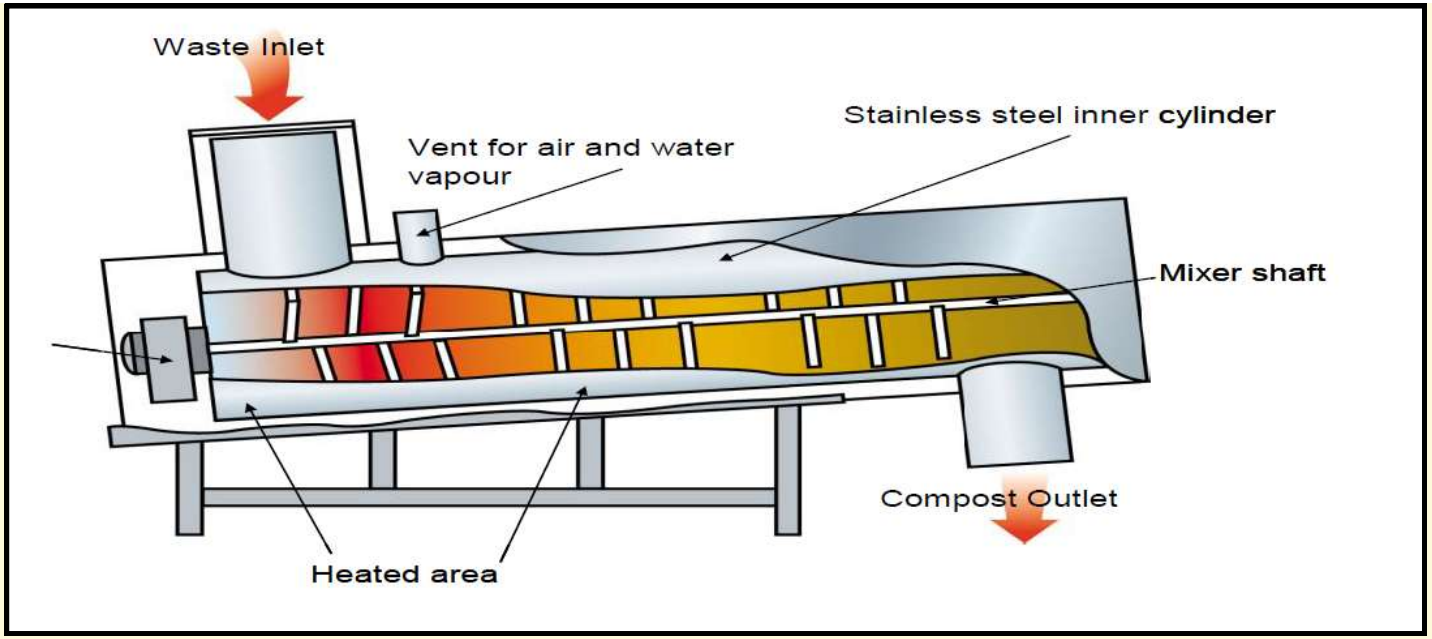
Capacity: Approx. 10 gallons of food waste per day

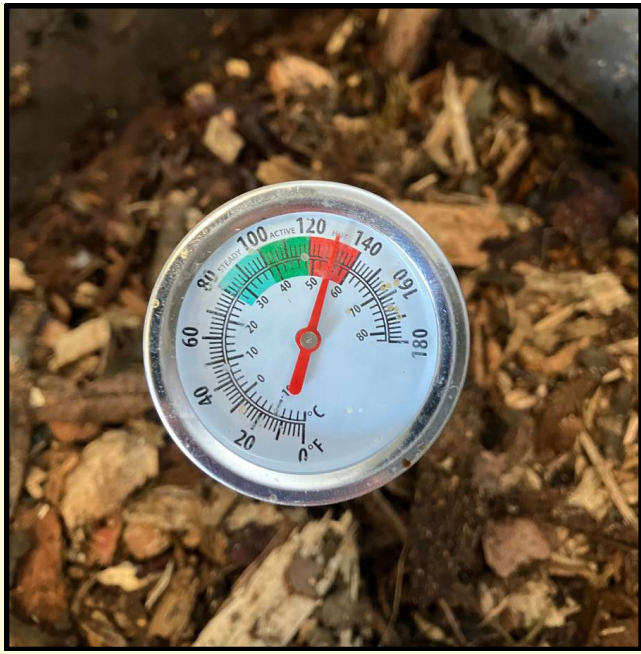


8.2 ft long, 2.3 ft width, 4.3 ft high



- The Rocket® is designed to compost all food scraps including meat and fish.
- The adequate mix is 50% of food waste and 50% of wood chips.
- Very little noise can be heard when the machine is running for approximately one minute every hour.





- **Continuous process:** Food waste moves through different stages of composting within the vessel.
- **High temperatures:** Microbial activity naturally generates temperatures of 140°F+, destroying pathogens associated with food waste, including meat and fish.
- **Rapid processing:** Material remains in the vessel for approximately 14 days.
- **Final curing:** Finished material then matures for 2–4 weeks before use.