

WHY RECYCLE?

With waste disposal costs rising, many organisations are finding recycling can help to keep these costs in check. One way to take a significant amount of weight out of your waste is to recycle food and other organic waste on-site.

Fully enclosed, the Rocket® Composter is vermin, insect and bird proof and provides a hygienic and sustainable system that is ABPR compliant allowing for the treatment of catering waste including cooked and uncooked meat and fish. The clean and simple, automated process is the ideal solution to the problem of sustainable food waste disposal and can reduce landscape maintenance costs by providing a high quality useable end product – compost!

Composting with the Rocket®

Composting is like baking a cake. Compostable wastes (usually food or green wastes) will not just compost on their own, another ingredient needs to be added. This ingredient needs to be high in carbon and have "structure". Woodchip waste is ideal, the type of material that tree surgeons produce. It's in abundance, it tends to be free and it's very easy to handle and store.

This mix of food waste and woodchip gives the necessary properties to the composting mass for an effective process to take place; structure that the blades in the machine can mix and aerate; the right chemical composition for the microbes to work efficiently; and lastly, moisture content. The recipe and loading is very, very simple. One part food waste to one part woodchip – simple to learn and easily taught! And, if you don't produce woodchip waste on site we'll even help you find it!

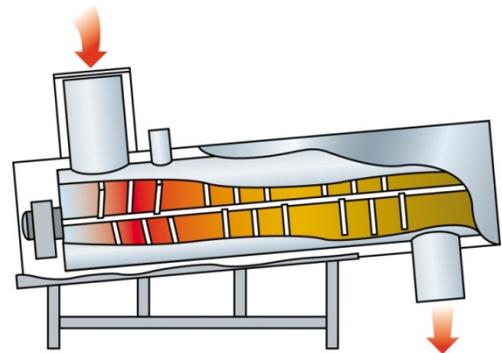
HOW IT WORKS

The Rocket® is a continual process system, designed to be fed with wastes as frequently as possible – ideally daily. Food and organic waste is simply placed into the hopper on the top of the machine with an equal quantity of "woody" material. The process from then on is automated.

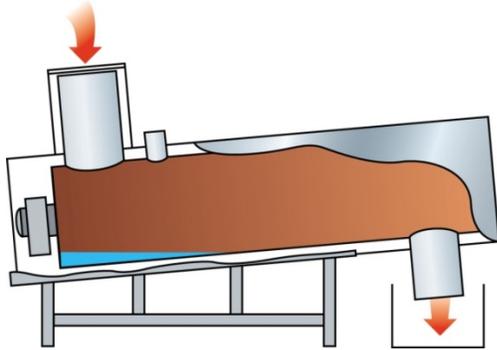
As the blades of the internal shaft turn they aerate the material, moving it along the body of the machine providing extra loading space at the input end of the machine and pushing finished material from the exit of the machine.

The material has a residency time of around 14 days in total, with today's added waste coming out in two weeks time plus tomorrow's waste – ie. 2 weeks + 1day.

The Rocket® is simply a controlled environment in which harmless composting microbes thrive, the addition of fresh waste (their food) into a lovely, warm, moist and well ventilated environment (the Rocket®) makes them multiply, eat, multiply even more and grow. This generates heat. This heat is contained through high density insulation and keeps the environment warm and the bugs working.



These temperatures can be as great a 70°C+. This means when the Rocket® is operated correctly compliance with the Animal By-Product Regulations (ABPR's) can be attained. In simple terms the Rocket® maintains the necessary pathogen kill of nasty "bugs" like salmonella and Ecoli – which no one wants in their compost.



Moisture is controlled by the angle of the Rocket® and the leachate drain. A damp environment is required in the first stages to enhance the efficiency of the process.

A moisture content level of 65% is ideal and the angle of the Rocket® helps achieve this by allowing a small pool of liquid to form in the bottom corner.

As the material moves along the process it begins to cool to around 30°C. It continues to cool as it rockets towards the exit before being deposited as a high quality composted product in the collection bag, 14 days after it began its journey.

The resultant compost, when properly made, is a brown, crumbly, soil like substance which contains all the elements and trace elements necessary to be a great soil improver.

The compost contains many beneficial micro-organisms that actively support plant health, minimising the need for insecticides and fungicides.



...and it's user friendly...

Designed to be operator friendly the Rocket® is very easy to use and requires minimal maintenance. Usual hygiene practices, such as brushing the floor around the Rocket® and wiping the machine clean should there be any spills, take very little time allowing the Rocket® to become a part of your usual catering, waste and landscaping processes quickly and easily.

Rocket® Requirements

All Rocket's® need three things:

Power	240v single phase 13/16 amp supply
Housing	the machines need to be under cover, they are designed to be robust and have longevity, but are not built to be weatherproof
Hardstanding/level surface	ideally non porous, this is to make cleaning around the composter as easy as possible