The Disperator food waste processor in the GTS-Series has been developed to meet the market’s need for catering equipment for sorting at source and handling of food waste without using water as a means of transport. The system consists of two parts connected together with pipes; the food waste processor and a food waste holding tank.

The processor itself, with its associated grinder, pump and control units, is located in a stainless steel cabinet (EN 1.4301). The infeed has a labyrinth opening with contact protection, linked to a safety interlock switch for operator safety. The discharge area for food waste may be set either to the left or to the right of the infeed opening. The same is also true of the processor outlet.

Food waste can be supplied and fed continuously during operation. The ground food waste is pumped via pipes into a holding tank which is either located indoors or buried in the ground outdoors.

The food waste processor is pumping highly viscous food waste using minimal amounts of added water, thereby saving considerable space in the tank and reducing operating costs (by longer emptying intervals). This system is able to cope with having the processor and tank a long distance apart.

The holding tank is emptied using a slurry extraction vehicle and the contents are transported to a biogas plant.

The objective is to reduce quantities of refuse, transportation of refuse and our consumption of resources, and thereby to bring down costs and reduce our impact on the environment. Moreover, the energy content in the food waste is utilised for biogas production at a later stage.

**Technical Specification**

**Food Waste Processor**
- Standard capacity: 15 l/min, 10 bar
- Optional capacity: 27 l/min, 4 bar
- Electrical power, grinder motor: 2.2 kW
- Electrical power, processor pump: 1.5 kW
- Voltage: 400V / 3-phase / 50Hz
- Rated current: 5.5 A for grinder motor, 3.6 A for processor pump
- Control voltage: 230V / 50Hz
- Fuse rating: 16 A
- Infeed with labyrinth opening fitted with contact protection and safety interlock switch
- Magnetic trap (for unwanted metal objects) included
- Electrical control cabinet of processor and tank level sensor included
- Drainage pipe (DN65) between food waste processor and tank. Pipes made of plastic (polyethylene) or stainless steel
- Optional extras: Running time meter and flow meter

**Food Waste Holding Tank**
- Food waste holding tank made of polyethylene plastic or stainless steel for installation indoors, or polyethylene reinforced plastic for burying outdoors
- Level sensor (overfill alarm) for monitoring when tank emptying needs to be ordered, or automatic shutdown of the equipment when the tank is full
- Vent with odour trap
- Slurry extraction coupling for tank emptying (D 75mm)
- Manhole cover and fall guard (buried tank only)
- Ground securing plates (buried tank only)
- The tank can be customised to fit tight spaces at the installation site. Various tank sizes are available.