

MicroVac

Automated food waste removal system using vacuum technology



Intermediate storage and transfer tank MV-IST

For applications where the conveying length between the food waste inlet and the vacuum pump module is in excess of 70mt, and the food waste storage tank location is not within close proximity, then it will be necessary to introduce the intermediate storage and transfer tank into the system.

The tank of the intermediate storage and transfer tank has a capacity of approximately 360lt and can be provided with 1 or 2 integral cyclone type waste separators, depending whether the installation has been designed for a two or four inlet application. The cyclones that separate the waste from the transport air are located to the top of the storage tank and are attached to the inlet by a 50 mm plastic pipe. Within the base of the unit there is an electrically operated valve and a pump that will transfer the slurry via a 40mm diameter plastic pipe to the remotely sited food waste storage tank.

A standard MicroVac vacuum food waste removal system comprises four basic components which are the waste inlet, the food storage tank, the vacuum pump module and control unit, and a network of interconnecting pipes. With the introduction of the intermediate storage and transfer tank, distance becomes no obstacle for the positioning of the food waste holding vessel which can be located anywhere up to 150mt distance from the main vacuum pump module.



Geberit HDPE pipe for ease of installation and durability



Tank inspection hatch showing the 110mm Geberit exhaust air pipe



MV-5000/2-S storage tank with 2 x MV-7.5 vacuum pump modules



Manual feeding of MV-180 freestanding bench inlet



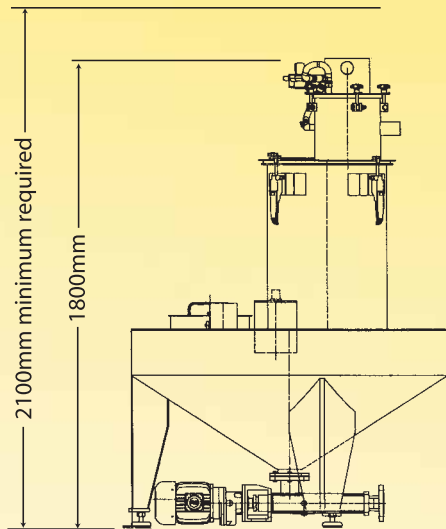
The macerating of the food waste into a slurry creates a natural process that allows the 'ANIMO' acids to be released under storage and stops the rotting process. This process reduces the pH level of the food waste slurry within the storage tank to between 3 and 4.5, preventing the growth of micro-organisms and eliminating unpleasant odours. Depending on the capacity of storage tank installed, food waste can be held for periods of up to 8 weeks or more before being removed from site for anaerobic digestion and composting, or alternatively for biogas production.



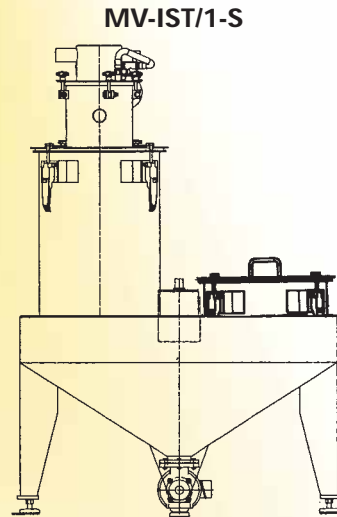
Working for a Sustainable Future

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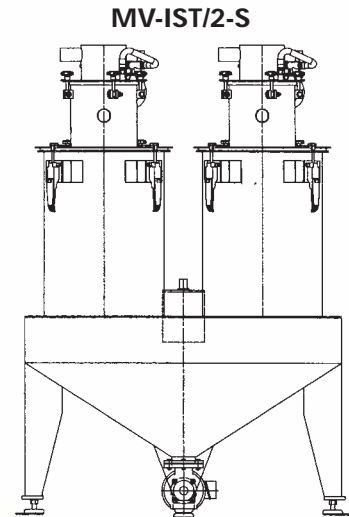


END VIEW



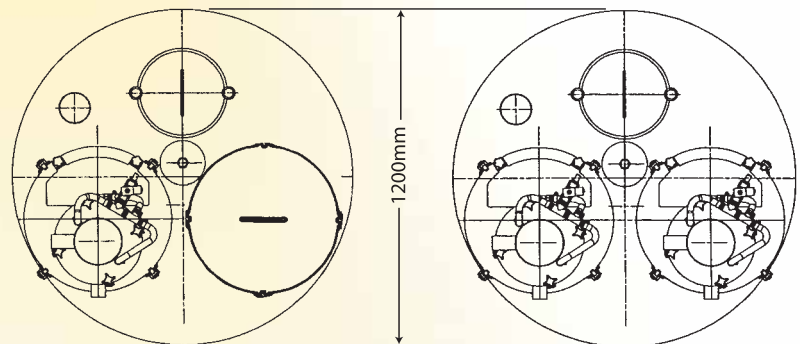
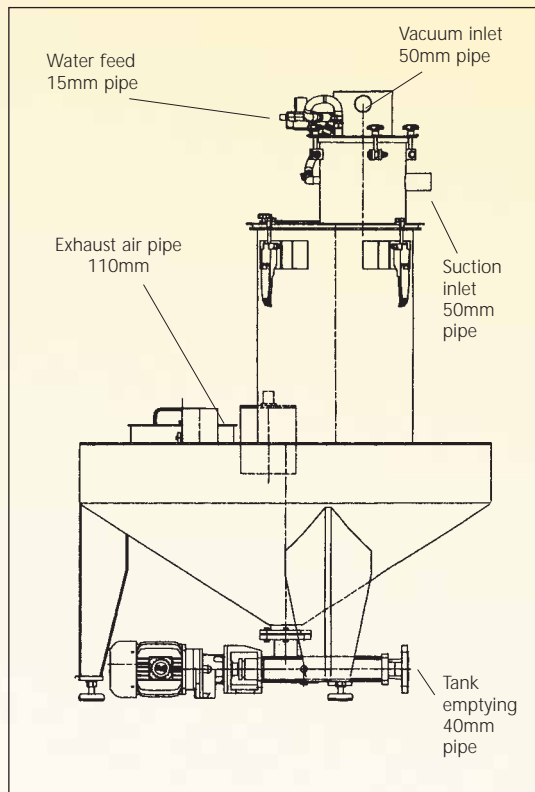
MV-IST/1-S

FRONT VIEW



MV-IST/2-S

FRONT VIEW



TOP VIEW

TOP VIEW

Intermediate storage tank	MV-1ST
Intermediate holding capacity	360lt
Connected load	1.5kw
Electrical rating	400/50/3ph
Control current	24 volt
Water consumption (50° to 55°C)	60lt/hr
Water connection	15mm
Vacuum air pipe diameter	50mm
Waste suction pipe diameter	50mm
Exhaust air pipe diameter	110mm
Tank emptying pipe diameter	40mm

Please contact our sales office on 01753 215120 for further information.

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