

MicroVac

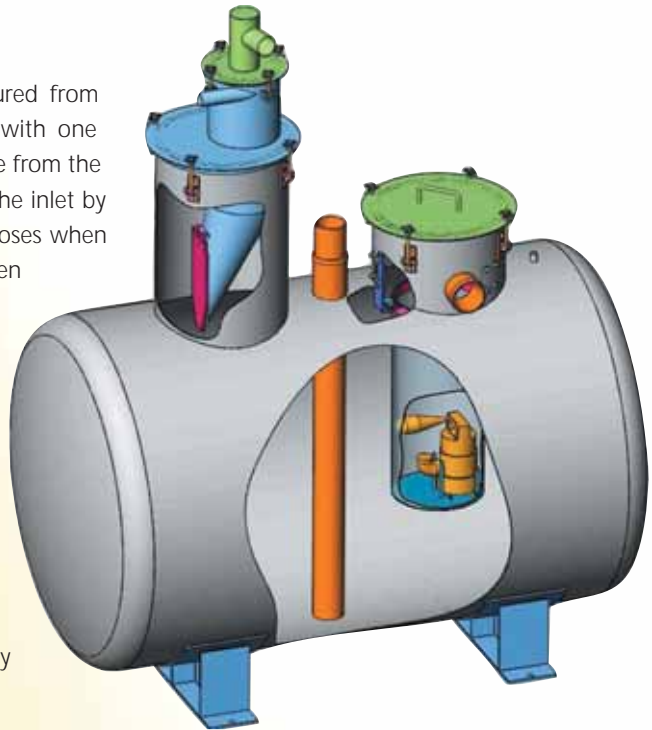
Automated food waste removal system using vacuum technology



Food waste storage tank

Model MV-2000/1-S liquid slurry storage tank manufactured from fibreglass reinforced plastic, having a holding capacity of 2000lt, and with one integral cyclone type waste separator. The cyclone that separates the waste from the transport air is located to the top of the storage tank and is attached to the inlet by a 50 mm plastic pipe. In the base of the cyclone a valve automatically closes when vacuum is created, and then opens automatically when the vacuum has been exhausted. The waste from the cyclone is then, transferred and collected in the storage vessel.

Inside the tank is a perforated metal cylinder that serves as a filtering screen, the function of which is to extract free liquid in order to increase the DS (Dry Substance) content in the amassed waste. Within the cylinder is a pump that empties the extracted water via a grease separator and collector directly into the waste water system. When the tank is approximately 90% full, a signal is generated to enable the tank emptying process to be ordered from the waste collection contractor. When the "tank full" signal is generated the system is automatically stopped in order to avoid overfilling of the tank.



A selection of tanks, both with and without separators are available and these range in capacity from the 2000lt model MV-2000/1-S described above, through to a volume capacity 10000lt tank for premises that have multiple inlets installed, or alternatively for customers who wish to have less frequent collections. When an intermediate receiving and transfer tank is installed, then the remotely sited tank is provided without the cyclone type separator.



MV-180 freestanding bench type waste inlet



MV-7.5 vacuum pump and PLC control module



Total flexibility of installation with Geberit HDPE pipe fittings



Emptying valve located to the exterior of the building

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.



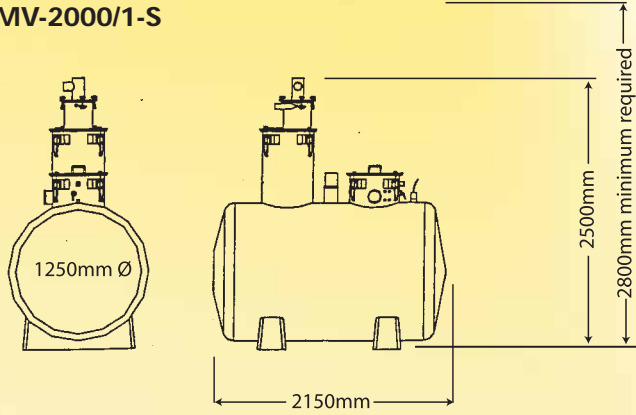
Working for a Sustainable Future

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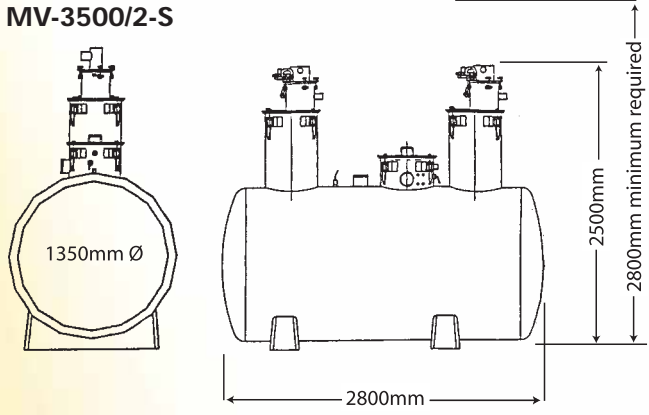
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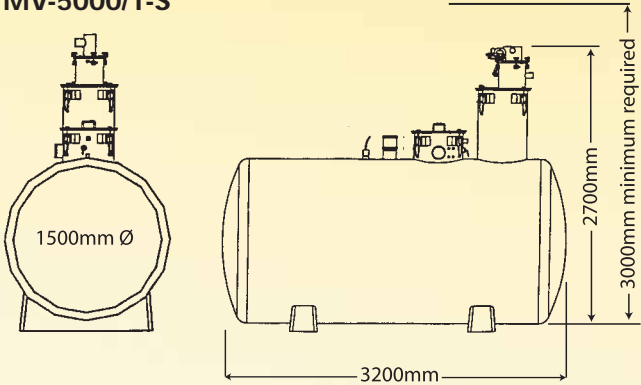
MV-2000/1-S



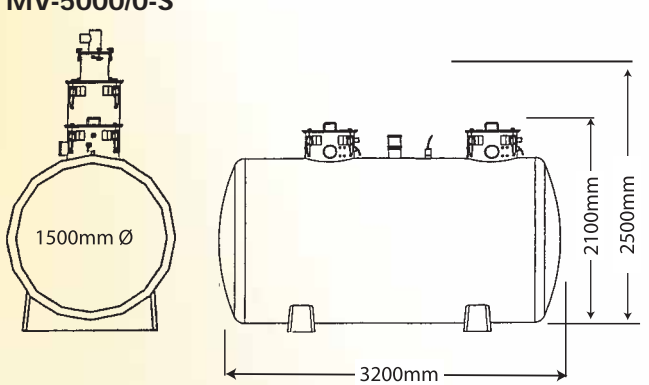
MV-3500/2-S



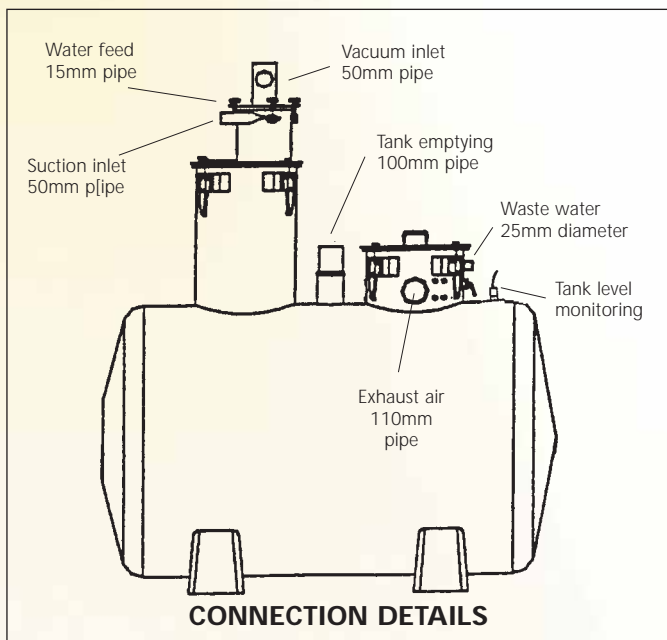
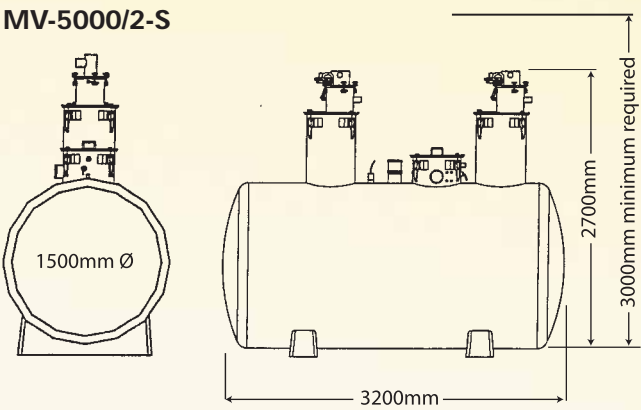
MV-5000/1-S



MV-5000/0-S



MV-5000/2-S



From the storage tank the liquid slurry can be piped to a valved outlet located at the exterior of the building or within a loading bay area ready for collection by the waste contractor. The outlet valve will be provided as part of the storage tank supply package. For sites where a tank can not be accommodated, we would recommend the model MV-250.1 freestanding dewatering unit be used.

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

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