

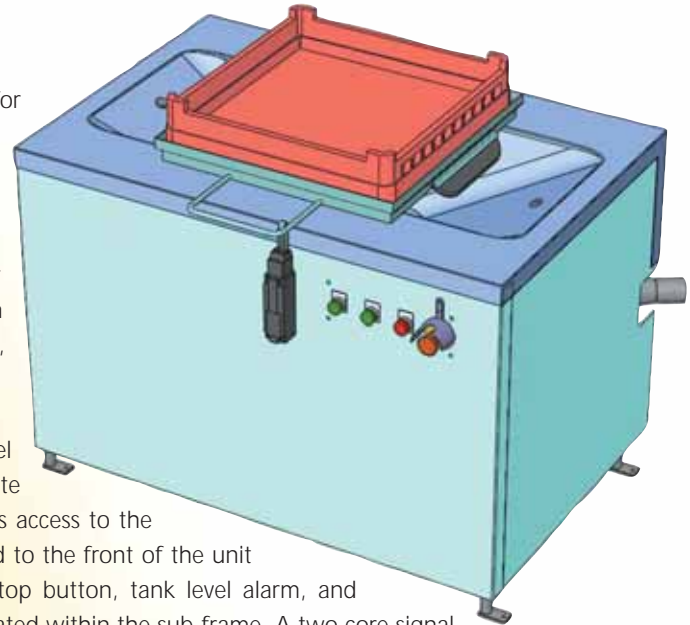
# MicroVac

Automated food waste removal system using vacuum technology



## Double entry tray stripping inlet

Model MV-180/DSK freestanding bench type waste inlet for continuous tray stripping operations and provided with a food waste scrapping chute at each side to allow simultaneous feeding of the food waste by two kitchen assistants. The top has been specially formed to allow a standard 500mm x 500mm cup or glass washing basket to be positioned. This unit is designed to accept and macerate up to 180lt per hour of general kitchen food waste such as vegetables, meat and fish leftovers and trimmings, soups and sauces, and small bones of chicken, lamb, pork, fish, etc.



Forming an integral part of the waste inlet hardware is a Disperator model 530-DRR food waste disposer with a motor rating of 2.2kw and complete with solenoid valve and in-line strainer. A safety interlocked lid prevents access to the rotating grinding unit during operation and vacuum extraction. Located to the front of the unit will be a selector button for manual or timed extraction, start and stop button, tank level alarm, and prominent emergency stop, all controlled by an electrical panel incorporated within the sub-frame. A two core signal cable is required between the food waste inlet and the vacuum pump unit.

During each macerating cycle, the introduction of a minimum amount of water (3lt) into the waste inlet converts the 6lt of food waste to a liquid slurry, enabling transfer to the holding tank, or optional dewatering unit, at a speed of around 25 mt/second.



Manual feeding of MV-180 freestanding bench inlet



MV-7.5 vacuum pump module with MV-2000/1-S storage tank



Total flexibility of installation with Geberit HDPE pipe fittings



View of waste inlet with water flushing nozzles

The system is impervious to insect or rodent infestation and offers the operator a rationalized and effective handling of general catering food waste, whilst ensuring the highest level of hygiene within the kitchen. No requirement either for costly air-conditioned or refrigerated storage space for bagged or binned food waste. Within the waste collecting area the risk of operator injury is eliminated and noise pollution of neighbouring properties caused by frequent waste collections at unsocial hours is greatly reduced, thanks to the reduced frequency of food waste collections. Reduced collections also result in considerable cost savings.

*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.*



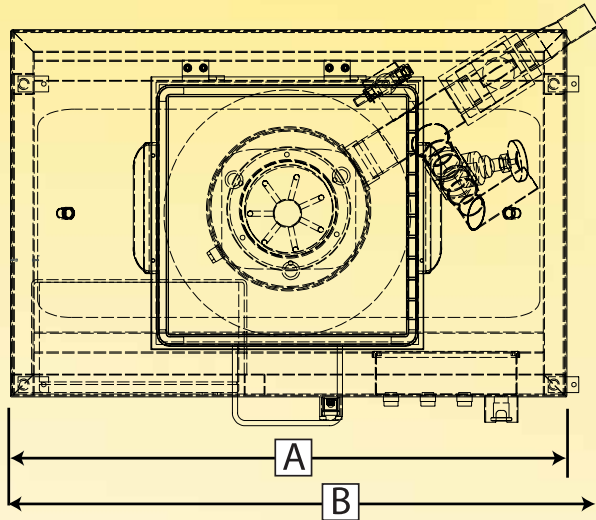
**Working for a Sustainable Future**

# MicroVac

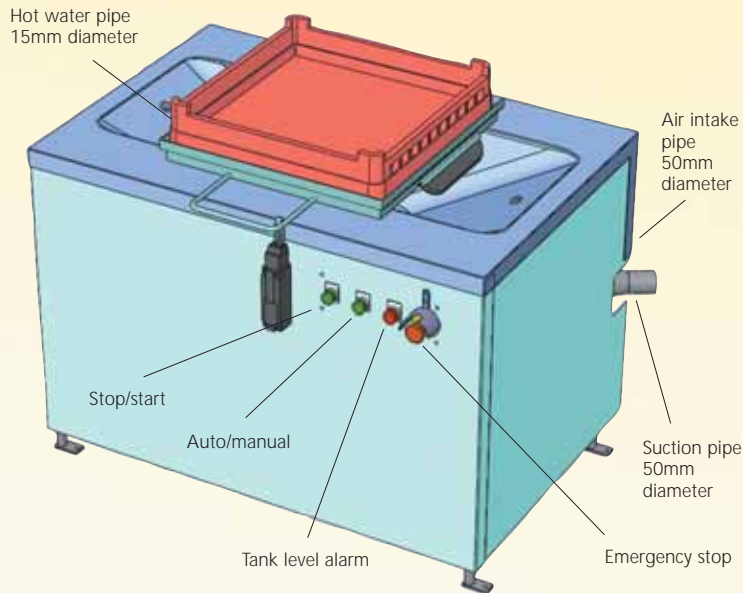
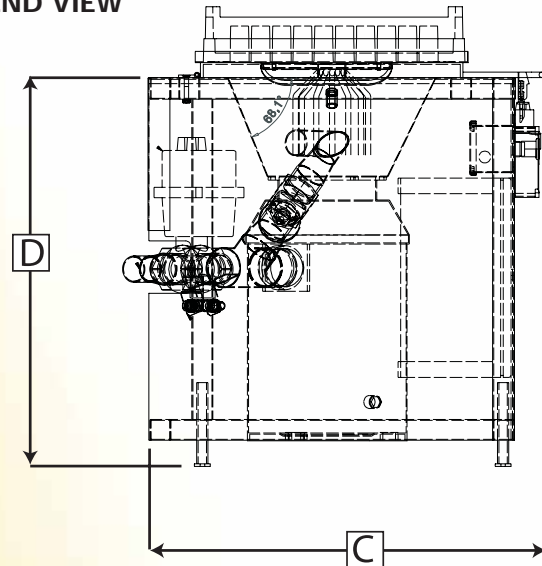
Automated food waste removal system using vacuum technology



TOP VIEW



END VIEW



Double entry tray stripping inlet		MV-180/DSK
Food waste throughput		180lt/hour
Hopper capacity		6lt/charge
Connected load		2.2kw
Electrical rating		400/50/3ph
Control current		24 volt
Water consumption (hot 55°C)		90lt/hour
Water connection		15mm
Air intake pipe diameter		50mm
Waste suction pipe diameter		50mm
Overall width	A	1060mm
Overall width with pipe outlet	B	1100mm
Overall depth	C	700mm
Overall height	D	850mm
Overall height with lid open		1470mm

A maximum of 2 inlets can be connected to the vacuum pump model MV-7.5, provided that the conveying length is no more than 70mt distance from the food waste holding tank. The maximum throughput of food waste will be 180lt/hour, either with a single or 2 inlet system. It is possible to convey the food waste slurry over a greater distance, however this requires the introduction of an intermediate receiving and transfer tank sited no more than 70mt from the inlet, along with a pipe network of 40mm diameter to transfer the food waste slurry to the remotely sited food storage tank. There are a number of alternative sized tanks available ranging from 2000lt to 10000lt, and available with or without integral waste separators.

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

## MEIKO UK LIMITED

Baden House, 349 Edinburgh Avenue, Slough, Berkshire SL1 4TU  
 Meikouk@meiko-uk.co.uk www.meiko-uk.co.uk



**SALES** T: 01753 215120 F: 01753 215159  
**SERVICE** T: 01753 215130 F: 01753 215158  
**PARTS DEPT** T: 01753 215150 F: 01753 215157  
**LOGISTICS** T: 01753 215140 F: 01753 215157

