

MicroVac

Automated food waste removal system using vacuum technology

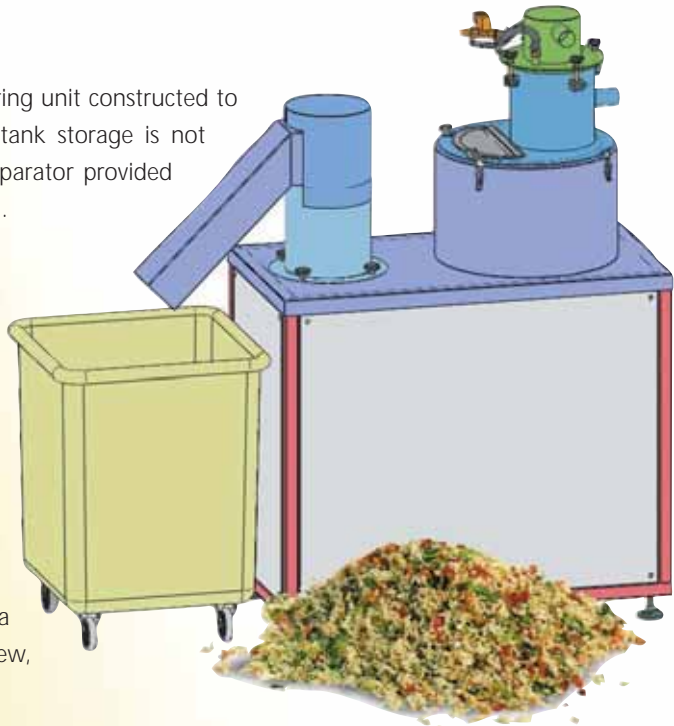


Food waste dewatering unit

Model MV-250.1 archimedes screw type wet waste dewatering unit constructed to enable the liquid content of the food waste to be extracted when tank storage is not possible. This model is provided with a single integral cyclone type separator provided with an automatic emptying valve and automatic water flushing system.

The screw press of the dewatering tower receives the food waste from the holding tank and transfers this to the discharge chute of the tower, pressing water from the food mass through a stainless steel perforated sleeve. A series of brushes fixed to the screw conveyor, combined with a hot water flushing system with high pressure nozzles directed onto the perforated sleeve, ensures that the sleeve remains free of grease, fats, or general food build-up and that the maximum amount of water is extracted and directed to drain via a suitable grease separator.

The vertical housing of the dewatering press is also provided with a hinged door to allow access to the perforated sleeve screen and screw, enabling the main components to be easily removed for cleaning.



MV-180 freestanding bench type waste inlet



MV-7.5 vacuum pump and PLC control module



Hinged door allows screw to be removed for cleaning



High pressure nozzles for hot water rinsing of sleeve

A volume reduction of the food mass in the region of between 70% and 80% can be expected as the liquid within the food waste is forced outwards and through the perforated screen. The remaining food waste continues to be compacted as it travels upwards and through the screw to the discharge chute. Depending on space availability, the discharge chute can be turned 90° to the left or right enabling discharge in one of three directions. At regular intervals, an automatic cleaning programme combining a disinfectant agent with a hot water rinse is applied to the system.

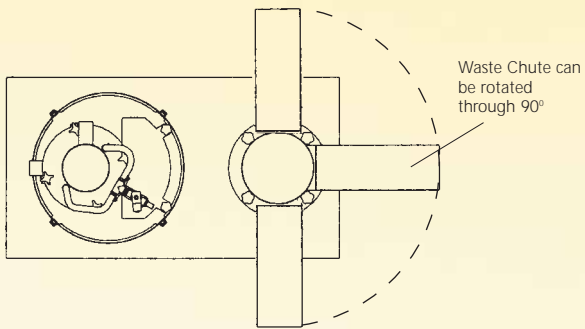
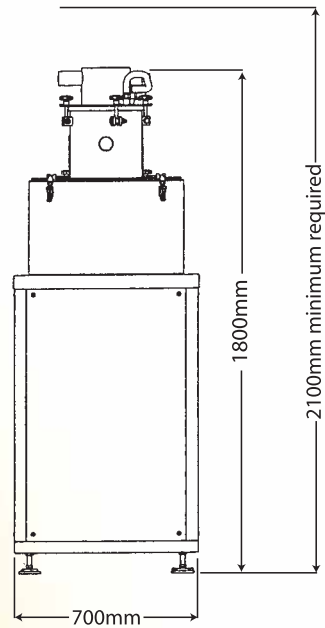
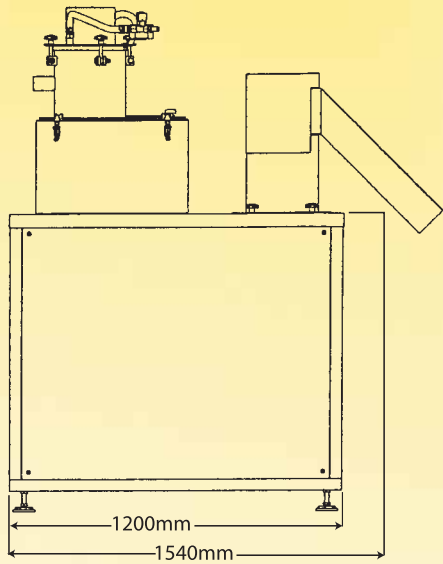
It is recommended that food waste discharged from the waste chute is deposited into a bag placed within a mobile waste bin for ease of handling, however if an automatic bin lifting device is not available at the waste compactor or container, or does not form part of the waste contractor's collection vehicle, then care must be taken to ensure that bags are not over-filled and that kitchen or back-of-house staff are fully aware and conversant with the Health and Safety executive regulations relating to heavy lifting and manual handling.



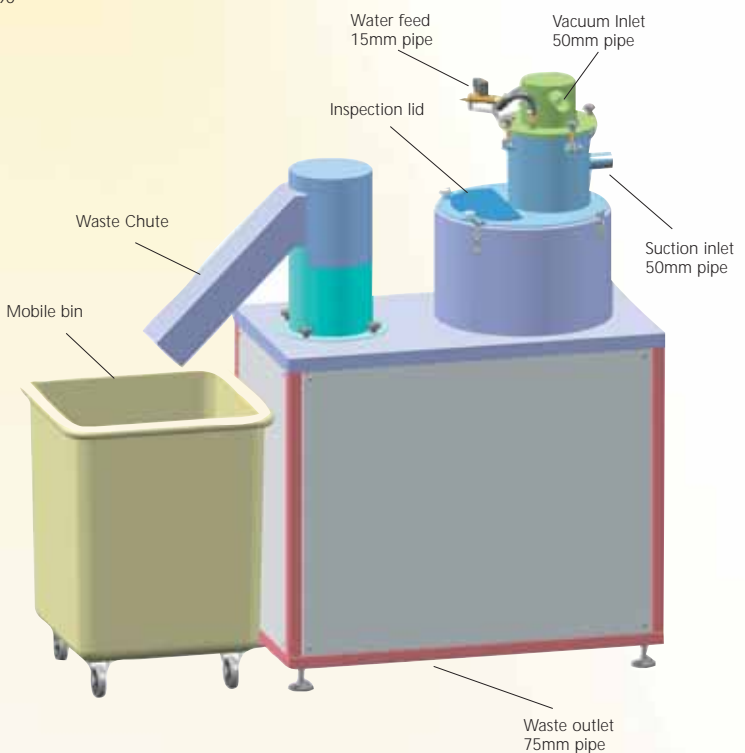
Working for a Sustainable Future

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Food waste dewatering unit	MV-250.1
Minimum Food waste throughput	250lt/hour
Connected load	1.1kw
Electrical rating	400/50/3ph
Control current	24 volt
Suction speed	25m/sec
Water consumption (50° to 55°C)	90lt/hour
Water connection	15mm
Waste outlet connection	75mm
Vacuum air pipe diameter	50mm
Waste suction pipe diameter	50mm



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

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