

Vegetable Washing Machine VWM-5000

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General

The VWM-5000 vegetable washing machine is designed to wash cut vegetables such as cut lettuce, leek, carrot etc. The VWM-5000 goes perfectly together with the belt cutting machine BCM-3000, the conveyor belt HCB-600-TS and the centrifugal dryer in a complete vegetable processing line.



VWM-5000 in a vegetable processing line for cutting, washing and drying vegetables

The product has to be thrown into the washing tank, or is transported to the washing machine on a conveyor belt. In the washing tank, the vegetables are washed very intensively by a system of a powerful 11 kW pump and water nozzles in both side walls (for circulation) and in the back headboard (for propulsion).

With the optional fly catcher, the products will be submerged by a big drum. Due to the perforated fly catcher, insects (floating) will be filtered out and removed. In case of products without any insects, the fly catcher can be tilted to the front during the washing of the products. This can also be done for cleaning the machine.

Subsequently the vegetables will be transported over the vibrating sieve. Here the vegetables get an extra 'shower' with clean water by the sprinklers. The overflowing water is removed through the perforated soil to the filter tank. All the sand and vegetable leftovers are filtered out through the optionally mounted fine mesh drum filter, whereupon the water is recycled to the washing tank. The filtered waste can be collected under the drum filter in a waste bin.

[Video high capacity processing line](#)

Washing and mixing

- The machine is suitable for thoroughly washing both floating and sinking fresh-cut vegetables.
- The machine can also be used for mixing salads. The whirl and flow can be adjusted separately with butterfly valves. So the vegetables can be mixed homogenously (only whirl) and afterward, after opening the butterfly valve for flow, transported out of the machine through the vibrating sieve conveyor.

User-friendliness

- The machine is even for uneducated employees easy to operate.
- Stainless steel switch box with on and off buttons for pump, vibrating sieve, and fly catcher, emergency stop and main switch.
- Water level: the machine fills itself automatically with water. The fluid sensors in the filter tank control the water level permanently and supply automatically when necessary.
- All valves are stainless steel butterfly valves, which are easy to operate and can be put in any position to regulate the water flow. Also the butterfly valves will not be jammed by sand.

Sustainability

- The machine is completely made out of sustainable stainless steel. All technical components are only from renowned brands.
- All technical components like the pump, vibrating motor and electrical components are in stainless steel covers. So the components are perfectly protected against water.
- The machine is completely built in our own factory, and we are proud to call it a true Dutch quality product!

Cleaning / hygiene

- The perforated bottom plate of the vibrating sieve can be easily dismantled by using the quick tensioners.
- The screen plate and bulkheads of the filter tank can be removed easily.
- The screen plate of the washing tank can be removed easily.
- The fly catcher can easily be hinged upwards with the help of a gas spring.
- The drum filter can be tilted outwards
- All piping parts can be dismantled very quickly - and without tools - by means of tri-clamps. They have no screw thread on the pipe-ends, and because of that they are much more hygienic than the common used dairy fittings (nut/coupling nut).
- Because of the use of tri-clamps, butterfly valve, and high quality welding, all piping and fitting complies to even the strictest demands and regulations which apply in the pharmaceutical and dairy industry.
- Because of the smoothly finished surfaces and the lack of 'dirty angles', the machine can be cleaned quickly, radically and hygienically.

Safety

- When the water supply stagnates and the water level drops down below the minimum, the pump will be switched off by the low water level protection (fluid sensors), and will be switched on again when the minimum level is reached.
- Safe 24V secondary circuit.
- Emergency switch on main switch box and on the fly catcher.

Options



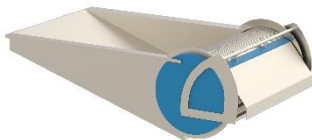
Fly catcher

The fly catcher will submerge the product underwater in the washing tank of the washing machine. The perforated drum of the fly catcher will filter out the insects among the product. The fly catcher can also be elevated above the washing tank for products without insects.



Alternative perforation size vibrating sieve

The VWM-5000 comes standard with a 3 mm perforated vibrating sieve. This perforation size will filter the washing water without filtering the product that is being washed. With a larger perforation size, seeds, particles, small cubes etc. can be filtered through the sieve. We offer any perforation size from 3 - 30 mm.



Rotating filter drum

The rotating drum filters out product that fell through the vibrating sieve and will transport the product to the side of the filter tank where it can be collected in a basket. Examples of suitable applications for the rotating filter drum are the collection of chili seeds, pumpkin seeds, small (sweet) potato cubes and many more.



Water temperature regulation system

To wash vegetables well and to keep germ count low, it is recommended to use cold washing water. The sensor of this system detects the water temperature in the washing machine and will automatically start filling cold water once the washing water gets too warm. Please note that this system does not include a cold water tank.

Technical data

Capacity	up to 2000 kg/h
Electrical data	3 Ph / 400 V / 50 Hz / 22.97 A*
Power	12.97 kW
Dimensions	5450 x 1800 x 2130 mm
Infeed height	1300 mm
Weight	1300 kg
Water capacity	2000 l
Water connection for filling	¾"
Water connection for sprinkling	½"
Water drainage connection	2x diam. 85 mm

*The VWM-5000 is electrically adaptable ensuring its compatibility with local power requirements.

Dimensional drawing

