

TRUMMA *filter*



Patented drum filter

The Trumma is a patented drum filter, developed and manufactured for greenhouse applications. The Trumma's fundamental principle is to filter highly polluted water streams, such as sand, potting soil and sludge.

In the Trumma, solids and liquids are separated using the simple combination of rotation, filtration and gravity. A stainless steel (S.S.) cylinder with perforation is used for this purpose, which has a filtration cloth on the inside. The Trumma is different from other filters because of its robustness, simplicity and flexibility. This guarantees maximum service life, optimum efficiency and low maintenance costs.

Operation Trumma

The heart of the Trumma consists of a perforated cylinder rotating in a stainless steel housing. The slow rotation keeps the product to be filtered (influent) moving. The liquid sinks through the FilterFlex cloth and the solids (dry waste) remain in the cylinder. Due to the rotation, the dry waste eventually rolls out of the cylinder like a sausage into a container. The filtered liquid (effluent) enters a collection tray at the bottom.

Applications

- Crate washers
- Crops with a lot of sand/potting soil
- Potting soil processing
- Wastewater treatment
- Food processing



Technical specifications

General properties

Capacity*	1 m ³ – 100 m ³ per uur
Energy consumption	0,55 kW/uur
Design	Compliant with Machinery Directive 98/37/EC and CE approved
Maintenance	Low-maintenance
Warranty	1 year (except FilterFlex cloths)

Technical specifications in general

Material	
Frame	SS 304L
Drum	SS 316L
Driveshaft	SS 316L
Control cabinet	Plastic
FilterFlex cloths	
Mesh size	40, 80, 160, 250 en 500 micron
Material	SS Polyamide, polyester or polypropylene**
Motor	
Type motor	Worm gear unit
Power	0,55 kW
Voltage	3 fase 400V, 50Hz
Other	
Control cabinet	3x 400V N/PE, 50Hz - start/stop, emergency stop, adjustable timer for spray system

Technical specifications in general

	Trumma I	Trumma II	Trumma III	Trumma IV
Dimensions				
Length	1650 mm	2600 mm	3550 mm	4500 mm
Weight	175 kg	245 kg	335 kg	425 kg
Width	1100 mm	1100 mm	1100 mm	1100 mm
Height	1500 mm	1500 mm	1500 mm	1500 mm
Outfeed hopper	280x160 mm	280x160 mm	280x160 mm	280x160 mm
Inlet	2"	2"	DN100	DN100
Outlet	110mm PVC	110mmPVC	DN200	DN200
Capacity* (m ³ /uur)	< 5	5 – 20	20 – 40	40 – 100
Number of drums	1	2	3	4
Number of nozzles	10	20	30	40

* Capacity depends on the mesh size of the FilterFlex cloth and the dirt load.

** Material choice of FilterFlex cloths depends on temperature and pH value of influent.