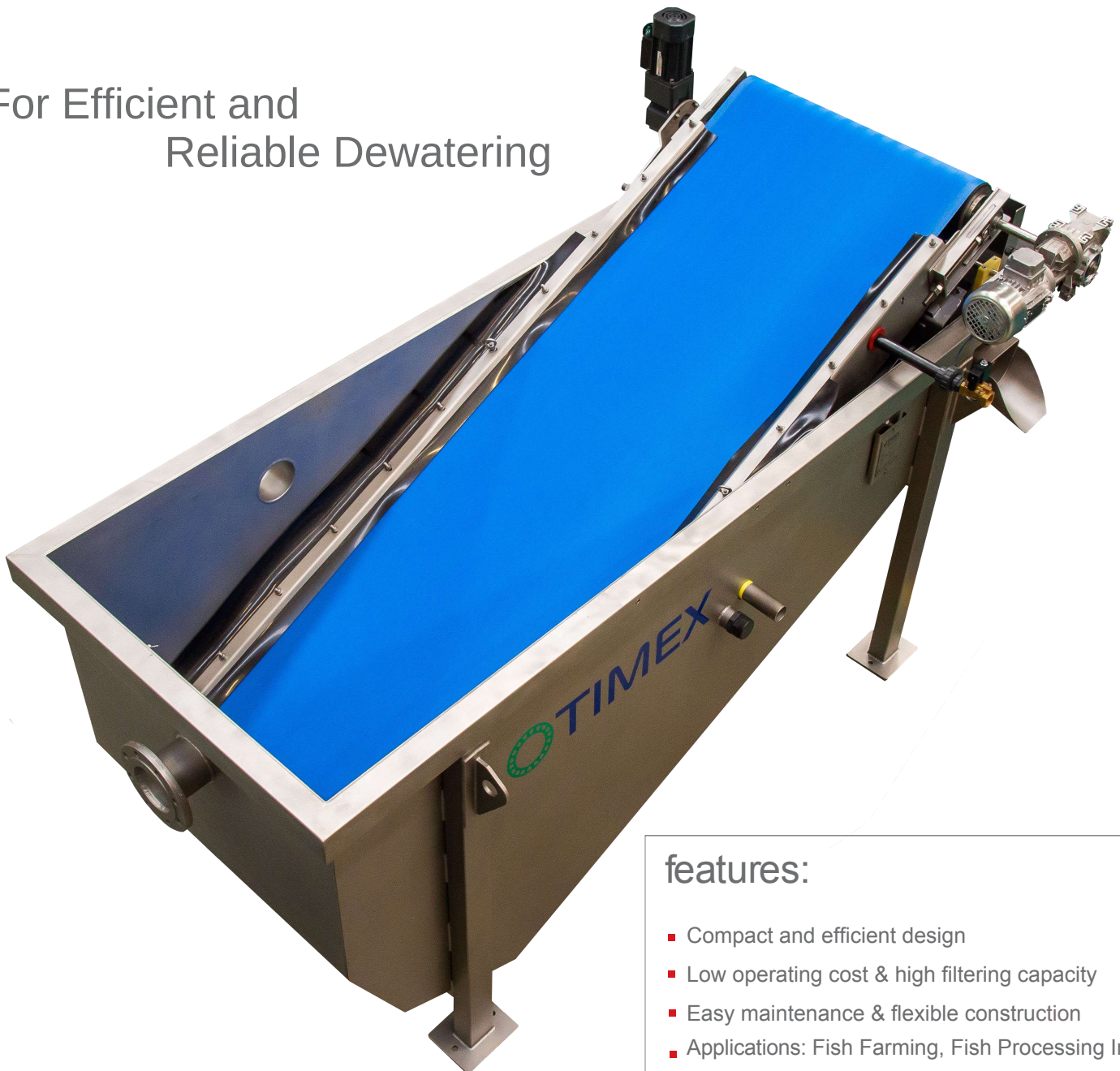


TMB Belt Filter Series

flow rate	filtration degrees	inlet / outlet diameters	operating pressure
up to 50 m ³ /h (220 gpm)	800 – 300 micron	up to DN125 (5")	Atmospheric Pressure

For Efficient and
Reliable Dewatering



features:

- Compact and efficient design
- Low operating cost & high filtering capacity
- Easy maintenance & flexible construction
- Applications: Fish Farming, Fish Processing Industry, Primary Filtration of Municipal Wastewater

General Specifications

TIMEX TMB Automatic Self-cleaning Filters are perfect solutions to remove particles from water in a cost-effective and space-efficient way. The TMB Filter Series are available in three standard versions with different capacities. TIMEX TMB Series range in flow rates up to 50 m³/h, with filter belt designed ranging from 300 - 800 micron filtration degree. Inlet / Outlet flanges are available up to 5" diameter. TMB Series provide flexible and robust construction; special models can be developed for various industry requirements.

The filter is designed and manufactured for the removal of suspended solids from wastewater and process water. The filter consists of a free-standing tank and an inner cassette with a screen of polyester mounted around two rollers. The upper roller is a motor that drives the filter belt. Depending on the required separation, the filter can be delivered with different belt filter pore sizes. The tank has three flanged connections: inlet, outlet, and overflow, as well as a funnel for waste. The filter is equipped with two gas springs for inspection.

Working Principle

The untreated water is fed into the filter and the particles are separated when the water passes through the filter fabric. The screen fabric rotates automatically when the water level rises. The fabric is cleaned principally by brush and then flushed with high pressurized water. The particles separated by the brush are transported internally in the filter to a screw conveyor that increases dry matter content of the sludge by dewatering. The wastewater is drained out of the filter separately and can normally be led back to the incoming water.

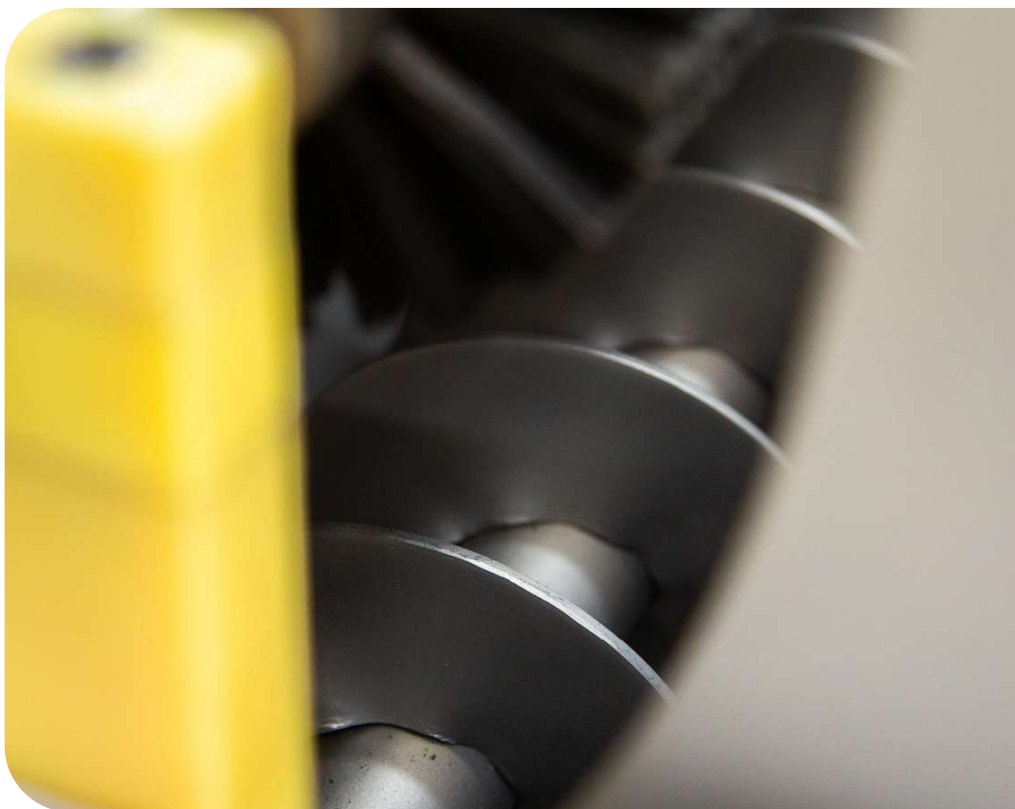




TIMEX TMB Belt Filter is one of the most energy efficient solutions since it uses an integrated brush and pressurized water for cleaning the filter belt; no compressor or pump is required for the process.

Cleaning mechanism of the filter belt prevents the spreading of particles and bacteria.

The particles separated by the brush are transported internally in the filter to a screw conveyor that increases dry matter content of the sludge.

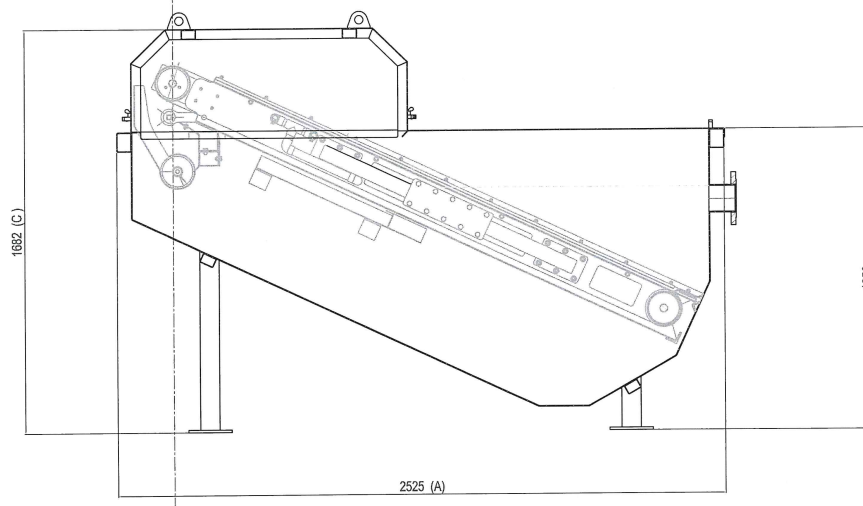


Technical Specifications

Series	TMB-500	TMB-750	TMB-1000
General Data			
Maximum Flow Rate*	25 m ³ /h	35 m ³ /h	50 m ³ /h
Inlet/Outlet Connection	3"	4"	5"
Overflow Connection	3"	4"	5"
Reject Connection	2"	2"	2 ½"
Max. Temperature	60 °C		
Pore Size	300, 500, 800 micron		
Filter Dimensions (A x B x C)	2525 x 780 x 1682 mm	2525 x 1030 x 1682 mm	2525 x 1280 x 1682 mm
Belt Dimensions	4970 x 500 mm	4970 x 750 mm	4970 x 1000 mm
Filter Area	0.4 m ²	0.65 m ²	0.90 m ²
Weight	410 kg	630 kg	790 kg
Spray Water Pressure (6 bar)	2.6 l/min x 7 nozzles	2.6 l/min x 9 nozzles	2.6 l/min x 13 nozzles
Spray Water Pipe Diameter	1"	1"	1 ¼"
Spray Control	By solenoid valve – 220V		
Belt/Brush/Screw Conveyor Motor	0.37 kW; 7-8 rpm / 0.25 kW; 25 rpm / 0.25 kW; 10-12 rpm		

*Subject to filtration degree & water quality

Construction Materials	
Tank, Inner cassette, Feet and Lids	Stainless Steel 304, Stainless Steel 316
Support Sealing	High-Density Polyurethane
Fasteners	Stainless Steel 304, Stainless Steel 316
Gaskets	Polyurethane (PUR)
Filter Belt Motor	Aluminum Body
Cover	Stainless Steel 304, Stainless Steel 316





industry

Automotive, Aviation,
Ballast treatment,
Electronics, Food &
Beverage; Mining,
Oil & Gas,
Petrochemical, Power
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