TIMEX
Filtration & Water Systems

Bag Filters

flow rates	filtration degrees	connection sizes
up to **850 m³/h** (3.742 US gpm)	From **200 to 1** micron	up to **DN400 (16 inch)**

Suitable solutions for sea water and chemical filtration applications with corrosion resistant construction materials

features:

- Wide range of body materials; Carbon and Stainless Steel, GRP and HDPE options in the fabrication programme. Special alloys upon request.
- Available in ASME Section VIII Division 1 design with "U" Stamp and/or PED 97/23/EC design with CE marking
- Filtration degrees from 200 to 1 micron
- Special filter bags for various chemicals
- Sea water and chemical application with special corrosion resistant materials
- Easy maintenance and cleaning by its simple mechanism
- No liquid loss during cleaning
- High capacity filtration capabilities by manifolded units
- Industries: manufacturing, mining, oil & gas, power plants, water treatment plants, turf and agriculture, wherever filtration is required...

Bag Filters

General

TIMEX Bag Filters are designed to meet the scale-up requirements of different industries for efficient and reliable filtration. TIMEX Bag Filters are widely used in Petroleum Industry, Refineries, Oil & Gas Fields, Petrochemical Industry, Iron and Steel Industry, Automotive Industry, Textile Industry, Paper and Pulp Industry, Medical and Pharmaceutical Industry, Food and Beverage Industry, Residential Areas, Water Treatment Plants etc. where fine filtration is essential. Further to our standard models, TIMEX can fabricate tailor-made solutions according to the specific requirements. In such cases TIMEX Bag Filter Housings are specifically designed with special attention given to the materials of construction, durability, ease-of-use and quality control.

TIMEX Single Type, Duplex Type, Twin Type and Maxiline (Multi-Bag) Bag Filter housings are manufactured either epoxy coated carbon steel, stainless steel 304 and 316, GRP or HDPE materials. Liquid flow is from inside of the filter bag to the outside. The support basket is securely locked into a recess at the top of the overflow rim, providing a 360 degree compression seal. Since the bag is locked in at the top of the vessel, all the dirt trapped inside the bag. The filter vessel enever requires cleaning after use. Swing-eye bolts system or Rathmann clamps can be used for the cover.

Our standard product scope includes below type of bag filters.

- Single Bag Filters
- Duplex Bag Filters
- Twin Type Bag Filters
- GRP and HDPE Type Bag Filters
- Maxiline (Multi-Bag) Filters

Heat jackets, displacement balloons, magnetic rods, bag positioners, mesh strainers, manifold modules, et. can be supplied optionally.

TIMEX Maxiline (Multi-Bag) Bag Filters are available with 3 to 20 filter bags. The liquid enters the housing from the side into the lid dome, from which it is equally distributed into the filter bags. The filtered liquid leaves the housing through the bottom outlet. The special TIMEX filter bag locking system allows a by-pass free filtration, without the disadvantages normally associated to central bag fixing systems. Each filter bag is firmly pressed by an individual bag fixing ring and sealed towards the strainer basket.

SINGLE BAG FILTERS
Technical Specifications (flow data at 200 micron, average water quality)

Filter Type	SBF-50	SBF-80
General Data		
Maximum Flow Rate	30 m^3/h (154 gpm)	50 m^3/h (638 gpm)
Inlet / Outlet Diameter	DN50 (2")	DN80 (3")
	DIN2576, PN10, Flanged (ASME B16.5 150# SO.RF Flanged)	
Maximum Working Temperature	70 °C	
Maximum Working Pressure	10 bar (150 psi) Upper pressure ratings upon request	
Filtration Area	4.500 cm^2 (697 in^2)	
Filtration Degrees	1, 5, 10, 20, 50, 100 and 200 Micron	
Filter Bag Dimensions & Quantities	7” x 32” / 1 Unit	
Lid Type	Flat Lid with Bolts and Nuts / Swing-Eye Bolts System	

Construction Materials *	
Filter Housing & Lid	Carbon Steel, epoxy coating inside & outside, Stainless Steel 304 or 316, GRP, HDPE
Support Basket	Stainless Steel 304 or 316, SMO254, Duplex or Super Duplex Stainless Steel
Filter Bag	PP (Can be suitable for corrosive applications upon request)
Bolts and Nuts	Galvanized CS, Stainless Steel 304 or 316

* Other construction materials & coatings for corrosive use, are available upon request.

DUPLEX BAG FILTERS
Technical Specifications (flow data at 200 micron, average water quality)

Filter Type	DBF-40	DBF-50	DBF-65	DBF-80
General Data				
Maximum Flow Rate	20 m^3/h (88 gpm)	30 m^3/h (132 gpm)	45 m^3/h (198 gpm)	50 m^3/h (220 gpm)
Inlet / Outlet Diameter	DN40 (1 ½")	DN50 (2")	DN65 (2 ½")	DN80 (3")
	DIN2576, PN10, Flanged (ASME B16.5 150# SO.RF Flanged)			
Maximum Working Temperature	70 °C			
Maximum Working Pressure	10 bar (150 psi) Upper pressure ratings upon request			
Filtration Area	9.000 cm^2 (1.395 in^2)			
Filtration Degrees	1, 5, 10, 20, 50, 100 and 200 Micron			
Filter Bag Dimensions & Quantities	7" x 32" / 2 Units			
Lid Type	Flat Lid with Bolts and Nuts / Swing-Eye Bolts System			

Construction Materials *	
Filter Housing & Lid	Carbon Steel, epoxy coating inside & outside, Stainless Steel 304 or 316, GRP, HDPE
Support Basket	Stainless Steel 304 or 316, SMO254, Duplex or Super Duplex Stainless Steel
Filter Bag	PP (Can be suitable for corrosive applications upon request)
Bolts and Nuts	Galvanized CS, Stainless Steel 304 or 316

* Other construction materials & coatings for corrosive use, are available upon request.

TWIN TYPE BAG FILTERS
Technical Specifications (flow data at 200 micron, average water quality)

Filter Type	TTBF-50	TTBF-65	TTBF-80	TTBF-100
General Data				
Maximum Flow Rate	40 m^3/h (176 gpm)	60 m^3/h (264 gpm)	90 m^3/h (396 gpm)	100 m^3/h (440 gpm)
Inlet / Outlet Diameter	DN50 (2”)	DN65 (2 ½”)	DN80 (3”)	DN100 (4")
	DIN2576, PN10, Flanged (ASME B16.5 150# SO.RF Flanged)			
Maximum Working Temperature	70 °C			
Maximum Working Pressure	10 bar (150 psi) Upper pressure ratings upon request			
Filtration Area	9.000 cm^2 (1.395 in^2)			
Filtration Degrees	1, 5, 10, 20, 50, 100 and 200 Micron			
Filter Bag Dimensions & Quantities	7” x 32” / 2 Units			
Lid Type	Flat Lid with Bolts and Nuts / Swing-Eye Bolts System			

Construction Materials *	
Filter Housing & Lid	Carbon Steel, epoxy coating inside & outside, Stainless Steel 304 or 316, GRP, HDPE
Support Basket	Stainless Steel 304 or 316, SMO254, Duplex or Super Duplex Stainless Steel
Filter Bag	PP (Can be suitable for corrosive applications upon request)
Bolts and Nuts	Galvanized CS, Stainless Steel 304 or 316

* Other construction materials & coatings for corrosive use, are available upon request.

MAXILINE (MULTI-BAG) BAG FILTERS
Technical Specifications (flow data at 200 micron, average water quality)

Filter Type	TML-312	TML-412	TML-612	TML-812
General Data				
Maximum Flow Rate	100 m^3/h (440 gpm)	150 m^3/h (660 gpm)	250 m^3/h (1.101 gpm)	350 m^3/h (1.541 gpm)
Inlet / Outlet Diameter	DN80 (3”)	DN100 (4”)	DN150 (6”)	DN200 (8")
	DIN2576, PN10, Flanged (ASME B16.5 150# SO.RF Flanged)			
Maximum Working Temperature	70 °C			
Maximum Working Pressure	10 bar (150 psi) Upper pressure ratings upon request			
Filtration Area	13.500 cm^2 (2.092 in^2)	18.000 cm^2 (2.790 in^2)	27.000 cm^2 (4.185 in^2)	36.000 cm^2 (5.580 in^2)
Filtration Degrees	1, 5, 10, 20, 50, 100 and 200 Micron			
Filter Bag Dimensions & Quantities	7” x 32” / 3 Units	7” x 32” / 4 Units	7” x 32” / 6 Units	7” x 32” / 8 Units
Lid Type	Flat Lid with Bolts and Nuts / Swing-Eye Bolts System / Rathmann Clamps			

Filter Type	TML-1012	TML-1212	TML-1612	TML-2012
General Data				
Maximum Flow Rate	420 m^3/h (1.849 gpm)	460 m^3/h (2.025 gpm)	660 m^3/h (2.905 gpm)	850 m^3/h (3.742 gpm)
Inlet / Outlet Diameter	DN250 (10”)	DN250 (10”)	DN300 (12”)	DN350 (14")
	DIN2576, PN10, Flanged (ASME B16.5 150# SO.RF Flanged)			
Maximum Working Temperature	70 °C			
Maximum Working Pressure	10 bar (150 psi) Upper pressure ratings upon request			
Filtration Area	45.000 cm^2 (6.975 in^2)	54.000 cm^2 (8.370 in^2)	72.000 cm^2 (11.160 in^2)	90.000 cm^2 (13.950 in^2)
Filtration Degrees	1, 5, 10, 20, 50, 100 and 200 Micron			
Filter Bag Dimensions & Quantities	7” x 32” / 10 Units	7” x 32” / 12 Units	7” x 32” / 16 Units	7” x 32” / 20 Units
Lid Type	Flat Lid with Bolts and Nuts / Swing-Eye Bolts System / Rathmann Clamps			

Construction Materials *	
Filter Housing & Lid	Carbon Steel, epoxy coating inside & outside, Stainless Steel 304 or 316, GRP, HDPE
Support Basket	Stainless Steel 304 or 316, SMO254, Duplex or Super Duplex Stainless Steel
Filter Bag	PP (Can be suitable for corrosive applications upon request)
Bolts and Nuts	Galvanized CS, Stainless Steel 304 or 316

* Other construction materials & coatings for corrosive use, are available upon request.

industry
Automotive, Aviation, Ballast treatment, Electronics, Food & Beverage; Mining, Oil & Gas, Petrochemical, Power Generation, Pulp & Paper

municipal
Potable Water, Waste Water, Desalination, Brackish Water, High rise buildings, Pre-filtration to Membranes

irrigation
Agriculture, Golf & Turf, Green Houses

aquaculture
Fish Farming, Recirculating Aquaculture Systems (RAS), Fish Processing Industry

Factory & Head Office

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