

# TwinOmatic Mega

Automatic Self Cleaning  
Filter Unit



A TwinOmatic is highly effective in removing suspended solids down to 50 micron, without flocculants, pre coats or granulated media. The TwinOmatic Mega is an efficient and reliable self-cleaning filter unit, designed to handle a higher flow due to a multiple screen design. The TwinOmatic Mega operates, like the entire TwinOmatic series, automatically, eliminating the need for manual cleaning. The cleaning mechanism uses unique suction nozzles cleaning 100% of the total filter area due to the spiral rotation of the suction scanner. A continuous flow rate is guaranteed, even during the automatic self-cleaning process. The TwinOmatic Mega has a small foot print due to multiple screens in one vessel.



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## Benefits

- Uninterrupted flow and continuous filtration during cleaning.
- Multiple screens for higher flow and larger filtration area.
- Automatically initiated self-cleaning process, manual override possible.
- Minimal flush for cleaning; less than 5% of the total flow.
- Simple, reliable and robust.
- Wide filtration range.
- Fully automatic operation.
- Low maintenance.

## Applications

- Surface water intake
- Water injection
- Cooling water
- Pre filtration RO
- Pipeline flushing

## Options

- Stainless steel housing
- Superduplex screen
- Stainless steel or delrin nozzles
- Anti corrosion coating, specially for sea water (e.g. glass flake lining).
- Higher design pressure and temperature
- Different electrical motor
- Rubber lined housing
- ATEX compliance

# TwinOmatic Mega

## SPECIFICATIONS

### Filter Construction

- Type of Construction
- Carbon steel housing
  - 316L stainless steel screen
  - PVC nozzles
- Others on request.

### Control System

- Electrical / PLC, 380V AC, 3 ph/ 24 VDC

### Screen Filtration Selectivity

- 50 - 500 micron
- Depending on application.*

### Backwashing Valve

- 2"

### Seal Joints

- NBR

### Operating Conditions

#### Maximum Water Temperature

- 122°F (50°C)

#### Operating Pressure

- Minimum 29 psi (2 bar)

### Clean Filter Pressure Loss

- <1.45 psi (<0,1 bar)

### Flow Rate

- 19.300 - 60.400 bbl/hr ( 2.300 - 7.200 m³/hr)
- Depending on screen and connection.*

### Cleaning Flow

- < 5% of total flow rate

### Flushing Time

- 25 seconds

Model TOM	Connection DIN/ASME	Filtration surface	Number of screens	Number of valves
26.420-10	DN 250 (10")	28.4 ft <sup>2</sup> (26.420 cm <sup>2</sup> )	2	2
39.630-10	DN 250 (10")	42.7 ft <sup>2</sup> (39.630 cm <sup>2</sup> )	3	3
52.840-10	DN 250 (10")	56.9 ft <sup>2</sup> (52.840 cm <sup>2</sup> )	4	4
33.000-12	DN 300 (12")	35.5 ft <sup>2</sup> (33.000 cm <sup>2</sup> )	2	2
49.500-12	DN 300 (12")	53.3 ft <sup>2</sup> (49.500 cm <sup>2</sup> )	3	3
66.000-12	DN 300 (12")	71 ft <sup>2</sup> (66.000 cm <sup>2</sup> )	4	4
42.600-14	DN 350 (14")	45.9 ft <sup>2</sup> (42.600 cm <sup>2</sup> )	2	2
63.900-14	DN 350 (14")	68.8 ft <sup>2</sup> (63.900 cm <sup>2</sup> )	3	3
85.200-14	DN 350 (14")	91.7 ft <sup>2</sup> (85.200 cm <sup>2</sup> )	4	4

## Ordering Information

### TOM

Filter Area		Connection		Options	
Code	Filtr. surface	Code	Connection	S	Special
26420	26.420 cm <sup>2</sup>	10	10"		
39630	39.630 cm <sup>2</sup>	12	12"		
52840	52.840 cm <sup>2</sup>	14	14"		
33000	33.000 cm <sup>2</sup>				
49500	49.500 cm <sup>2</sup>				
66000	66.000 cm <sup>2</sup>				
42600	42.600 cm <sup>2</sup>				
63900	63.900 cm <sup>2</sup>				
85200	85.200 cm <sup>2</sup>				

Specifications are subject to change without notification.  
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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