

TwinOmatic Brush

Automatic Self Cleaning
Filter Unit



The TwinOmatic Brush is a highly efficient and reliable self-cleaning filter unit that is designed as a more economical and robust alternative for the standard TwinOmatic. The TwinOmatic Brush operates, like the entire TwinOmatic series, automatically, eliminating the need for manual cleaning. Where the standard TwinOmatic uses suction nozzles, the TwinOmatic Brush is equipped with brushes for a more effective and quicker cleaning of the filter screen. The TwinOmatic Brush is electrically driven and guarantees a continuous flow, even during cleaning.



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Benefits

- Uninterrupted flow and continuous filtration during cleaning.
- Automatically initiated self-cleaning process, manual override possible.
- Use of suction brushes for quicker cleaning.
- Minimal flush for cleaning; less than 5% of the total flow.
- Simple, reliable and robust.
- More economical execution.
- Wide filtration range.
- Fully automatic operation.
- Low maintenance.

Applications

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

Options

- Multiple screens
- 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 Brush

SPECIFICATIONS

Filter Construction

Type of Construction

- Carbon steel housing
- Stainless steel 316L screen
- Polypropylene brushes
- Others on request.

Control System

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

Screen Filtration Selectivity

- >200 micron
Depending on application.

Backwashing Valve

- 3", epoxy coating

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 for Single Screen

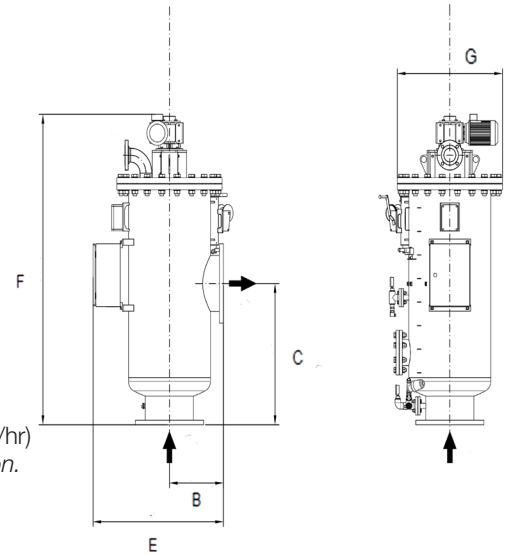
- 3.150 -11.350 bbl/hr (500-1.800 m³/hr)
Depending on screen and connection.

Cleaning Flow

- 2-5% of total flow rate

Flushing Time

- 25 seconds



Model TOB	Connection DIN/ASME	Filtration surface	B	C	E	F	G	Empty weight
7990-6	DN 150 (6")	9 ft ² (7.990 cm ²)	13.8" (350 mm)	23.6" (600 mm)	32.5" (825 mm)	52.2" (1.325 mm)	106" (2.700 mm)	683lb (310 kg)
10600-8	DN 200 (8")	12 ft ² (10.600 cm ²)	13.8" (350 mm)	35.4" (900 mm)	32.5" (825 mm)	63" (1.600 mm)	117" (2.975 mm)	805 lb (365 kg)
13210-10	DN 250 (10")	15 ft ² (13.210 cm ²)	13.8" (350 mm)	35.4" (900 mm)	32.5" (825 mm)	73.8" (1.875 mm)	130" (3.300 mm)	893 lb (405 kg)
16500-12	DN 300 (12")	18 ft ² (16.500 cm ²)	15.7" (400 mm)	35.4" (900 mm)	38" (965 mm)	66.9" (1.700 mm)	117" (2.975 mm)	1213lb (550 kg)
21300-14	DN 350 (14")	23 ft ² (21.300 cm ²)	15.7" (400 mm)	35.4" (900 mm)	38" (965 mm)	77.8" (1.975 mm)	130" (3.300 mm)	1345 lb (610 kg)

Ordering Information

TOB

Filter Area		Connection		Options	
Code	Filtr. surface	Code	Connection	S	Special
7990	7990 cm ²	6	6"		
10600	10600 cm ²	8	8"		
13210	13210 cm ²	10	10"		
16500	16500 cm ²	12	12"		
21300	21300 cm ²	14	14"		

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety

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