



TRIDENT H SERIES

AUTOMATIC HYDRAULIC SELF-CLEANING SCREEN FILTER



- ✓ Full 316 Stainless Steel Construction
- ✓ 4-Layer Sintered Screen with Class Leading Effective Screen Area
- ✓ Highly Effective Cleaning with Over 99% Recovery Rate and Full Screen Recovery
- ✓ Horizontal and Vertical Models Available
- ✓ Easy Access to Internal Parts
- ✓ The Filters are Plug & Play
- ✓ Failsafe NC Flush Valve
- ✓ Bluetooth DC Powered Controller

Up to **600 m³/h**
Max. Flow Rate

80-500 µm
Filtration Degree

10 bar
Max. Operating Pressure

Less than 1%
Backwash Water
Consumption

2 bar (30 psi)
Min. Operating Pressure

Up to **12,000 cm²**
Filter Area

AD 2000
Design Code

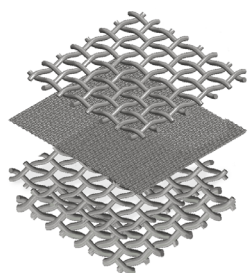
Max. Temp
65°C

ENGINEERED FILTRATION.

Filtersafe

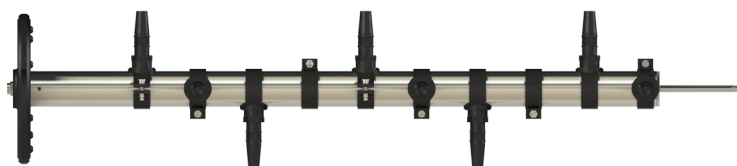
OUR TECHNOLOGY

The Filtersafe **Trident** Automatic Screen filters are reliable filters that work hard for you and are designed for near zero maintenance. The **Trident** provides an uninterrupted supply of clean filtered water even during the flushing cycle.



smartweave™ high performance filtration screens

- 4 layer sintered structure
- Enhanced strength and durability
- High Effective area
- Available in 80-500µm
- 316 Stainless Steel



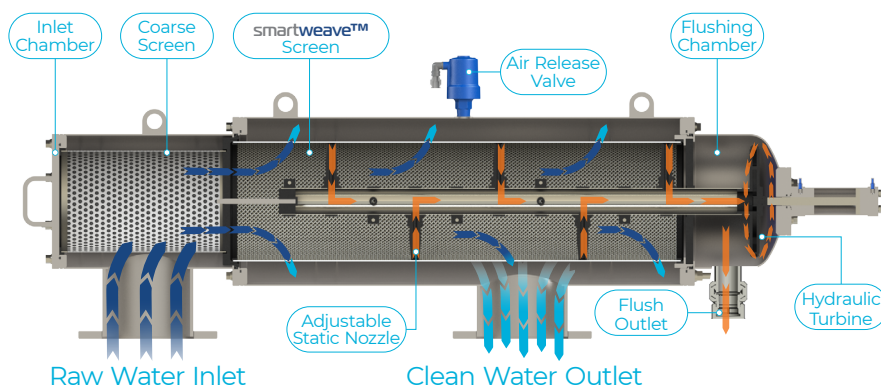
Our Hydraulic powered Cleaning Drive

- Reliable Turbine Drive System
- Helical Scanner
- Low Water Use
- Low Pressure Operation 2 Bar
- Large Nozzle Size
- Low Maintenance
- Filtration Process Continues During Flush Cycle

Cleans While In Operation:

1. The **smartweave™** screen traps unwanted particles. The differential pressure (DP) between inlet and outlet triggers the flush cycle via a solenoid*.
2. The flush enables water from the clean side of the screen to flow back through the screen into the scanner nozzle, removing captured particles on the screen surface.
3. At the same time the hydraulic turbine rotates the scanner, and the piston moves the scanner in a linear motion ensuring full coverage of the screen.
4. All debris leave the filter through the scanner and flush valve. The flushing cycle ends and the filter returns to its original state.

- All settings determined by controller. Cleaning cycle initiation possible via preselected DP level, specific time, or combination of both. Length of flush is customizable.



Trident H

Technical Specifications:



Model	Trident 4800H #TRH0048	Trident 7200H #TRH0072	Trident 9600H #TRH0096	Trident 12000H #TRH0120
Inlet \ Outlet	4"-6" Flange	6"-8" Flange	8"-10" Flange	10"-12" Flange
Screen Area	4800 cm ²	7200 cm ²	9600 cm ²	12,000 cm ²
Effective Screen Area	4,560 cm ²	6,840 cm ²	9,120 cm	11,400 cm
Max Capacity	180 m ³ /hr.*	280 m ³ /hr.*	400 m ³ /hr.*	600 m ³ /hr.*
Flushing	2" BSPT			
Min. Flush Flowrate**	25 m ³ /hr.	35 m ³ /hr.	50 m ³ /hr.	60 m ³ /hr.
Flush Duration	16 sec.			
Min. Flush Volume	110 L	160 L	220 L	270 L

Note: The TRH0048 is available in a vertical filter orientation, on request.

* Dependent on filtration degree, water quality and inlet size. Contact us for more information.

** At 2 bar

Contact Us for More Info:

sales@filtersafe.net | www.filtersafe.net