TITA SERIES

AUTOMATIC SELF-CLEANING SCREEN FILTER

Up to **2,800** m³/h High Flow Rate

2 bar (30 psi) Min. Operating Pressure **10-500 μm** Filtration Degree

7,000-40,000 cm² Screen Area **10 & 16 bar** Max. Operating Pressure

> AD 2000 Design Code

Low Flush Flow

Max. Operating Temp 60°C



ENGINEERED FILTRATION



With over three decades of experience in automatic water filtration, Filtersafe filters are equipped not only with state-of-the-art patented technology, but also the know-how to successfully integrate our solutions in Industrial and Agricultural water applications.

Filtersafe filters can deal with the most challenging filtration situations. That's why we are one of the top global filtration manufacturers worldwide.

- **O High-End Agriculture Sector**
- **o** Aquaculture Sector
- **O** Industrial Filtration
- o Municipal Water Treatment
- **o** Other Industrial Needs



High-End Agricultural Project



The **TITAN** incorporates Smart design for easy maintenance

Reliable Filtration Durable Filters

Filtersafe brings you unrivaled value, effectiveness and durability. Our filters effectively remove high volumes of TSS and organic matter. The variety of our filter series provides functionality for a range of applications:

- **Typical Installations Includes:**
- o Prefiltration for cooling tower water
- Surface water intake for irrigation
- o Mining
- o Metallurgical industriesr
- o Aquaculture & fish ponds
- o Wastewater treatment plants
- o Seawater filtration

With several global support hubs and two strategically placed manufacturing facilities, Filtersafe provides fast and reliable service in pre- and post-sales situations.



For smaller installations we have the Vertical Trident 2400H

TITAN SERIES

PATENTED **TECHNOLOGY**

- ✓ EVERCLEAR -**Unmatched Cleaning** Technology
- nozzlex Patented Self **Balancing Proximity** Nozzle
- smartweave 4 Layer Sintered Screen with **High Effective Area** and Strength

SMART DESIGN

- ✓ Largest Screen Area in a Horizontal Filter
- Easy Maintenance No Lifting Cranes
- ✓ Safe & Speedy 1 Person **Screen Maintenance**



The Filtersafe **TITAN** Automatic Screen Filters offer superior and reliable filtration technology that is well suited for removal of suspended solids from water in industrial, agricultural and municipal sectors down to 10 microns. The **TITAN** filter offers the largest screen area in a horizontal configuration, which results in: lower installation and operational costs, easier service and maintenance, and increased safety.



Need for Walkways and

BUILT FOR ENDURANCE

- ✓ Designed for High TSS Applications
- ✓ Full 316 Stainless Steel Construction
- ✓ Cleans While In **Operation**



TITAN SERIES

Our Patented Technology



smartweave™



High performance filtration screens:

- Multi-layered sintered structure
- 2. Enhanced strength & durability
- 3. Available in 316L, 904L, SMO254



nozzlex®

Self-cleaning cycle for maximum removal efficiency:

- 1. Self balancing cleaning nozzle
- 2. High Efficiency clean
- 3. Zero screen wear + reduced nozzle wear
- 4. Low pressure operation



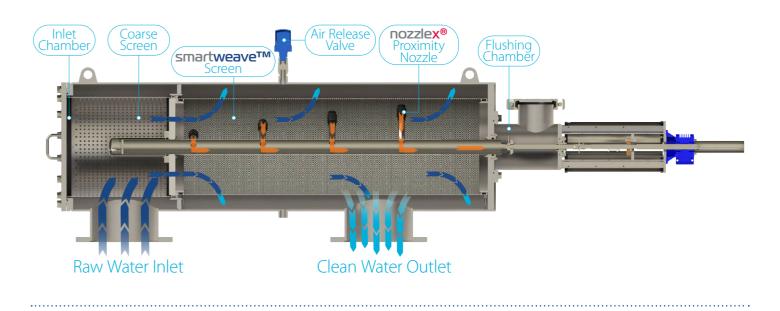
EVERCLEAR™

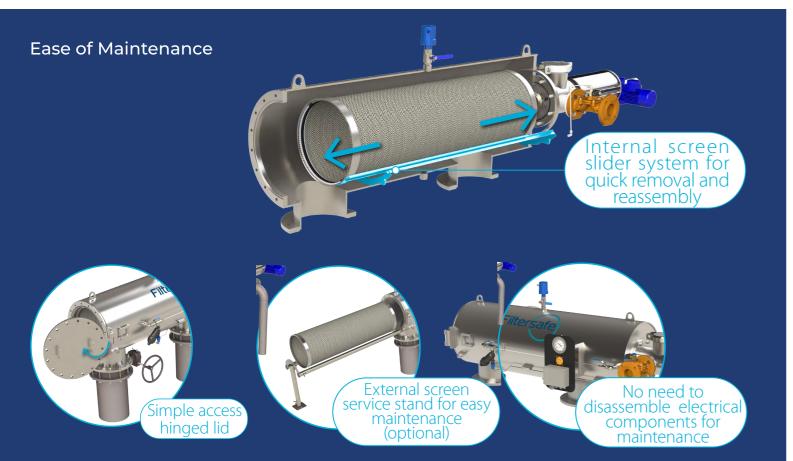
An unparalleled automatic filtration cycle.

Cleans While In Operation:

TITAN SERIES

- PLC controller.
- 2. The cleaning cycle starts by opening the flush valve, allowing water from the clean side of particles off the screen to the **nozzlex** cleaning nozzles and expelled from the filter.
- 3. The cleaning mechanism is rotated by a drive motor and moved laterally with the cleaning interruption.
- All settings determined by controller. Cleaning cycle initiation possible via preselected DP level, specific time, or combination of both. Length of flush is customizable.





Robust Controller

The Unitronics PLC Jazz Controller automatically manages the flushing of your TITAN filers.

- One board can control up to 4 filters. .
- Quick & intuitive setup
- Wide voltage range, 3 phase 190 480V, 50/60Hz + PE. .
- · Useful hard-wire interface for customer monitoring and operation.

Optional:

· Modbus TCP (Ethernet) communication interface for detailed system monitoring.



1. Cleaning is initiated by either differential pressure (DP) build-up across the **smartweave** fine screen when it's dirty, by a timer, or by manual flush which is controlled by an external

the screen to reverse back through the screen surface at high velocity, dislodging entrapped

nozzles to completely clean the screen. The filter remains online during the cleaning process allowing for a continuous flow of clean filtered water downstream without any



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Technical Specifications

1 GENERAL DATA

Model Name Catalog number		TITAN 7K #TTN0070	TITAN IOK #TTNO100	TITAN 20K #TTN0200	TITAN 40K #TTN0400
Max Capacity* (m³/hr.)		350	500	800	1,600
Inlet/Outlet***	Standard	6" Flange	8" Flange	12" Flange	20" Flange
	Per Request	4"-8" Flange	6"-12" Flange	8"-16" Flange	16"-24" Flange
Configuration		Horizontal	Horizontal	Horizontal	Horizontal
Filtration Degrees		10-500 μm			
Cleaning Mech	anism	Patented	nozzlex Proximity nozzle	e. turbo scanner upgrad	e available.
Min. Pressure		2 bar			
Pressure Rating		10 & 16 bar			
Design Code		AD 2,000			
Power Supply		380/415 VAC; 3 Ph; 50 Hz			
Weight (Dry) kg		200	250	700	1,850
Weight (Wet) kg		400	480	1,200	3,900

2 | OPERATION

Min. Flush Flow Rate*	14 m³/hr	21 m³/hr	28 m³/hr	35 m³/hr
Min. Flush Volume (@ 1bar)	164 L	245 L	420 L	1,020 L
Flush Duration	42 sec.	42 sec.	54 sec.	105 sec.
Flushing***	2''	2"	3"	3"

3 | SCREEN DATA

Screen Area (cm²)	7,000	10,000	20,000	40,000		
Filtration Medium	smartweave™ 4-l	smartweave [™] 4-layer sintered weaved screen fine filter, protected by coarse 6mm Pre screen				
Screen Material	SS 316L, 904L or SMO254					

4 | CONTROL & ELECTRICITY

Motor	1,500 Rpm, 0.18 Kw (MS 6324) For B5/63, 0.5-0.65 Amp.	1340 Rpm, 0.25 Kw, 0.5-0.65 Amp.
Controller Type	Unitronics**	
Control Voltage	24V DC	

5 | CONSTRUCTION MATERIALS

Body	AISI 316L	
Internal & External Finish	Passivation & Pickling	
Internals	SS 316L (904L or SMO254 optional), POM, EPDM or NBR	
Seals	EPDM/NBR	

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

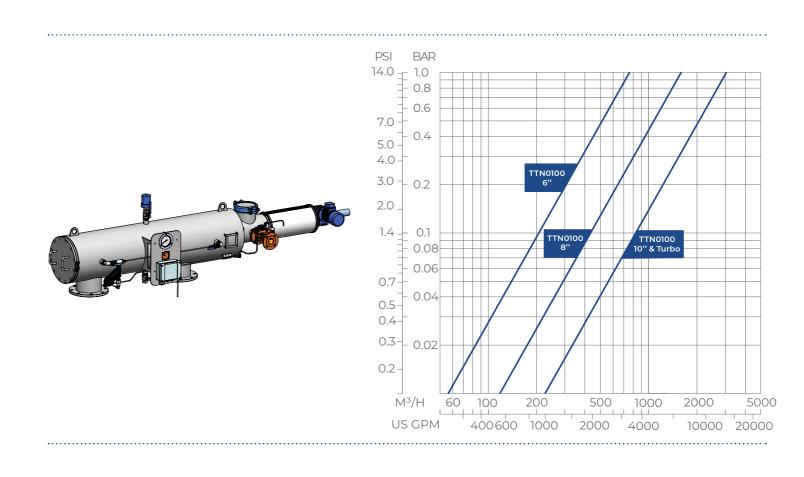
** Other Equipment & Materials are available on request.

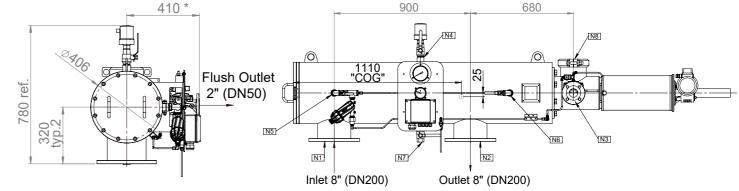
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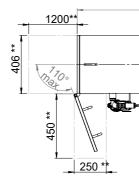
*** Available in DIN PN10/16, British standard BSTD/E, ANSI B16.5 150PSI. For additional standards contact us.

TITAN 10K #TTN0100

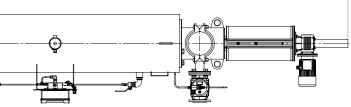
Dimensions and Headloss











- * Depends on valve's model / brand.
- ** Keep this space clear for maintenance.

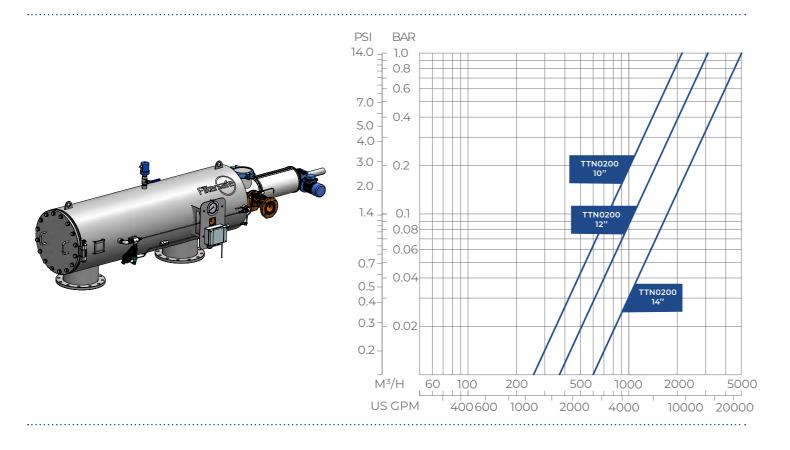


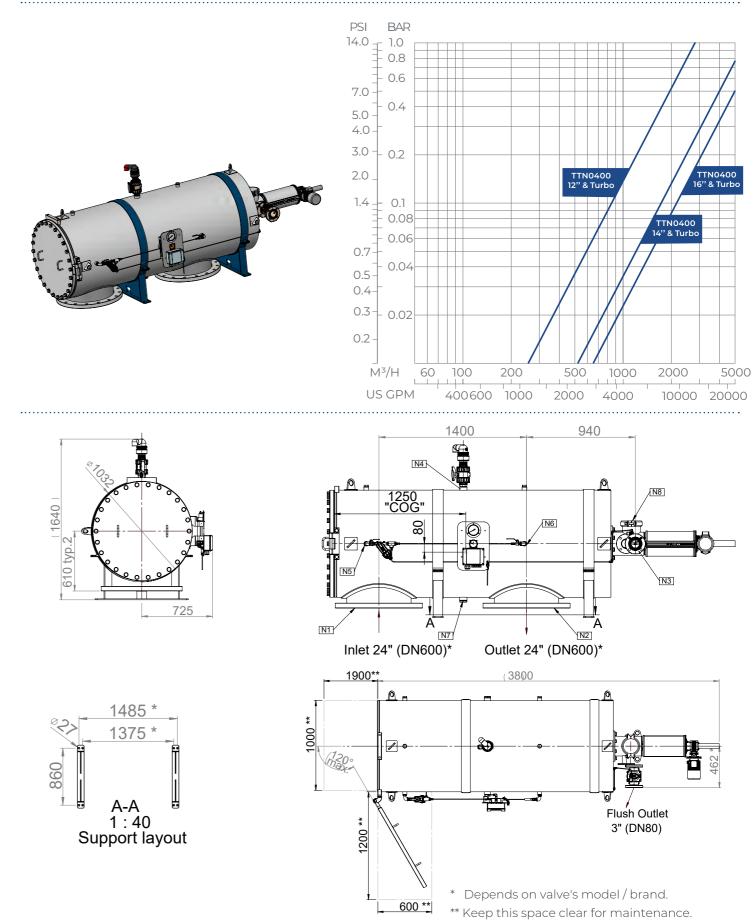
TITAN 20K #TTN0200

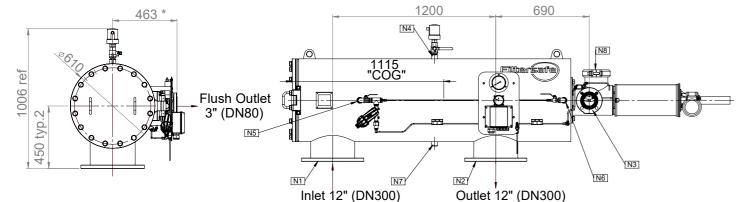
Dimensions and Headloss

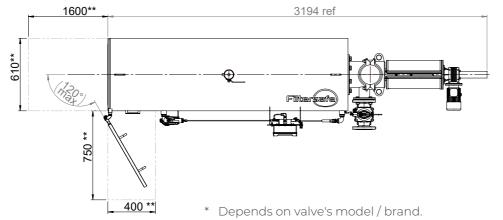
TITAN 40K #TTN0400

Dimensions and Headloss

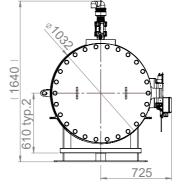


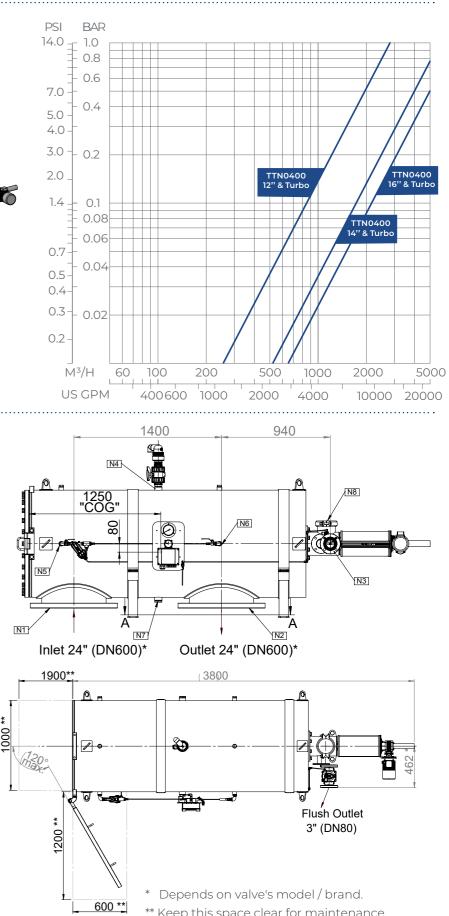


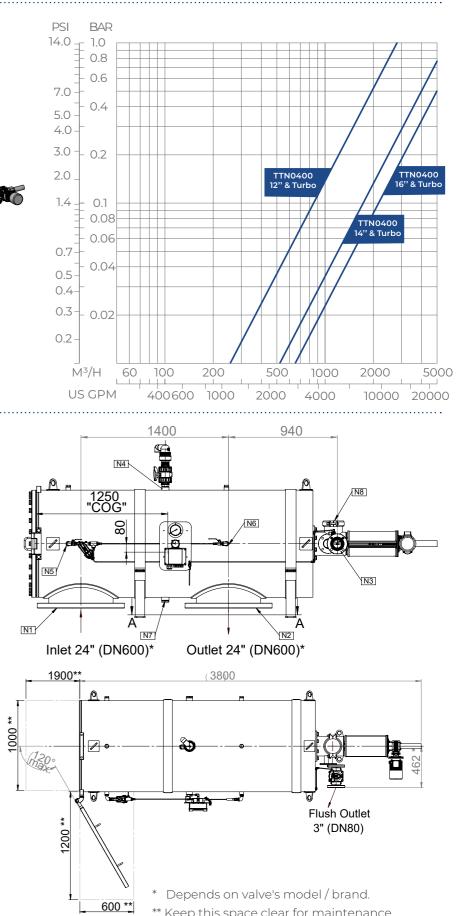










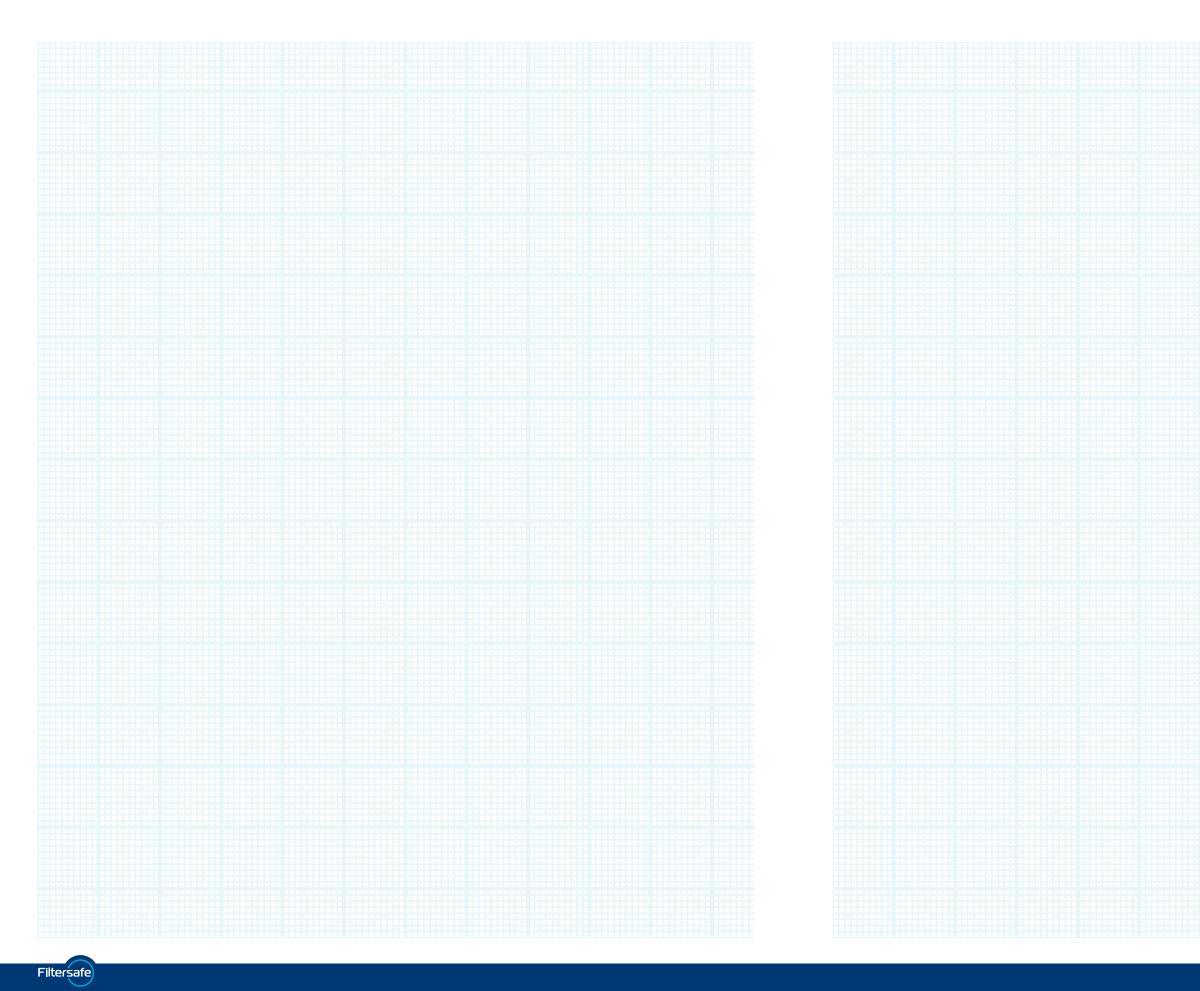


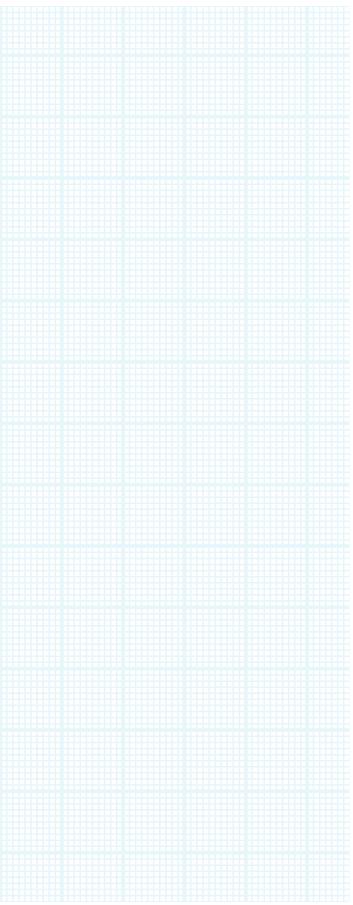


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USER NOTES

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ASIA

HONG KONG

Our Hong Kong manufacturing and assembly plant produces our entire line of products to the region, and is supported by a world-class steel fabrication **BRAZIL, Rio de Janeiro** facility.

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OUR HEADQUARTERS

Our flagship factory. The 4,000 m² building contains our regional sales offices, R&D facilities and manufacturing and assembly plant. The facility is capable of handling very large volumes of production with an incredibly fast lead time.

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Filtersafe Manufacturing Facilities



www.filtersafe.net



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