

TEQUATIC™ PLUS Fine Particle Filter

Product Data Sheet

Overview

The TEQUATIC™ PLUS fine particle filter, with its innovative and patented design, combines the power of continuously cleaning, cross-flow filtration with centrifugal separation into one simple device. The TEQUATIC PLUS filter is designed to process a wide range of difficult-to-treat feedwaters. It provides a cost-effective, reliable solution to traditional filtration technologies, ensuring high uptime and consistent performance in a small footprint. The TEQUATIC PLUS filter is ideal for:

- Industries ranging from oil and gas, power and industrial to desalination and municipal
- Pretreatment for UF and RO, or primary filtration for other applications
- An alternative, or a complement, to traditional filtration systems

Technology

- Self-propelled cleaning assembly (no motor)
- · Absolute cross-flow filtration of lighter solids
- Centrifugal separation for heavy particle removal

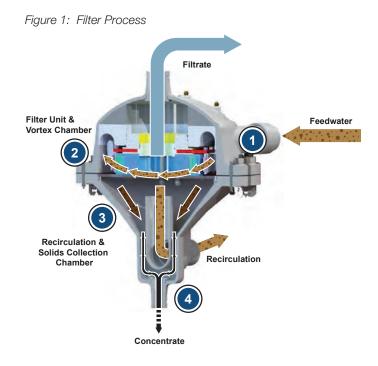
Process

- 1. As shown in Figure 1, feedwater enters the unit. Centrifugal force pushes heavy particles outward. Lighter solids are removed by cross-flow filtration. Filtered water exits as filtrate.
- 2. The vortex chamber houses the filter unit, which continuously cleans the filter media. Filter cut-offs are from 10-55 microns. Pressure drop across the filter is typically <1 psi.
- 3. Solids enter the recirculation and solids collection chamber. Other particles flow into the recirculation pipe for reuse.
- 4. Solids settle at the bottom and are purged as concentrate for disposal or further processing. Unit recovery is typically >99%, minimizing disposal volumes.

Cost-Performance

- Consistently tolerates very high and highly variable Total Suspended Solids (TSS) up to 10,000 mg/L
- Extremely high uptime due to minimal backwash and fouling
- · Low operational, maintenance and disposal costs
- >99% water recovery
- 2-3 times the capacity of other technologies in a given footprint



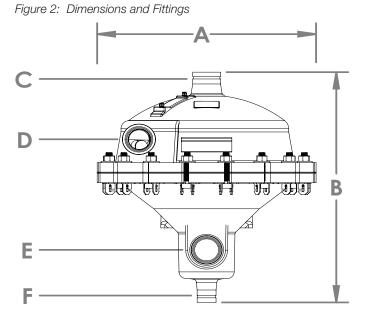


Design Flexibility & Integrity

- Easy to integrate and install into new and existing systems
- Can be configured for water recovery and reuse, or straight pass-through
- Scalable via multi-unit configuration
- Protects downstream assets from difficult water issues

Safety & Sustainability

- Low-maintenance design enhances operator safety
- Significantly fewer filter changes reduces handling, waste and disposal concerns
- High water recovery minimizes disposal
- · Low to no chemicals are required
- Energy efficient, operating at 0.5-2 psi across the filter media



Specifications

Item	TEQUATIC PLUS F-50	TEQUATIC PLUS F-75	TEQUATIC PLUS F-150
Flow Capacity (clean water)	2-25 gpm (8-95 lpm)	25-100 gpm (95-380 lpm)	60-400 gpm (230-1500 lpm)
Filter Cutoff	10, 15, 20, 25, 30, 40, 55 μm	10, 15, 20, 25, 30, 40, 55 μm	10, 15, 20, 25, 30, 40, 55 μm
Temperature (max)	160°F (71°C)	160°F (71°C)	160°F (71°C)
рН	2–11	2–11	2–11
Maximum Working Pressure	100 psi	100 psi	100 psi
Weight	40 lbs. (18 kg)	165 lbs. (75 kg)	940 lbs. (426 kg)
Dimensions (see Figure 2)			
A: Diameter	16" (40.6 cm)	27.5" (69.9 cm)	46" (116.5 cm)
B: Height	18" (45.7 cm)	31.5" (80 cm)	64.5" (163.8 cm)
Fittings (see Figure 2)			
C: Filtrate	2" Victaulic	3" Victaulic	6" Victaulic
D: Feedwater	2" Victaulic	3" Victaulic	6" Victaulic
E: Recirculation	2" Victaulic	3" Victaulic	6" Victaulic
F: Concentrate	2" Victaulic	2" Victaulic	4" Victaulic

For more information, call 1-800-447-4369

Also visit www.cleanfiltration.com or www.dowwaterandprocess.com

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