

DEFENDER® FP-SERIES RMF

FEATURING POWERBUMP™ SYSTEM



DEVELOPED BY NEPTUNE BENSON

The FP-Series was designed and developed by Neptune Benson, an Evoqua company, the world's most respected and trusted RMF leader. With 60+ years of experience serving the commercial aquatics market and thousands of systems installed worldwide, it's no surprise that Neptune Benson continues to develop innovative products that make pools cleaner, safer and healthier for your bathers. With the FP-Series an expanded portion of the commercial aquatics market segment can now take advantage of the same capabilities and quality found in our legacy Defender® filters!

DESIGNED FOR AQUATIC FACILITIES

Designed with advanced modeling tools and validated through extensive testing, the next generation FP-Series RMF is suitable for applications requiring flow rates between 107-300 gpm. With a small footprint in terms of both size and cost, the FP-Series is BIG on capability, packing many features found in the legacy Defender® RMF product line.

REGENERATIVE MEDIA VS SAND FILTRATION

Sand and regenerative media filters (RMF's) both operate on the principle of mechanical filtration. Sand filters trap particles in water throughout the depth of their sand bed. When the bed becomes dirty/loaded, it is cleaned by backwashing, a process that sends considerable amounts of water to drain. RMF's trap particles on the surface of flexible tubes coated with perlite media. When the perlite becomes loaded, RMF's regenerate by bumping, a process in which no water is lost. In addition to providing superior 1 vs 30 micron particulate removal, RMF's significantly reduce the amount of water wasted to drain.

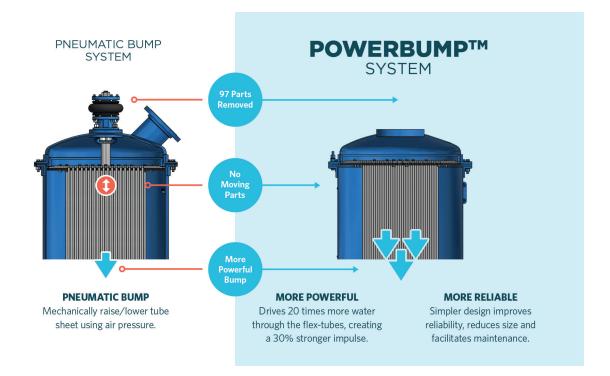
BENEFITS

- Superior Water Quality
- 90% Water Savings
- 75% Space Savings
- 50% Energy Savings
- 30% Chemical Savings

AT A GLANCE

- Flow rates between 107-300 gpm (24-68 m³/hr)
- Compact size fits through standard 36" doorways
- Non-metallic fiberglass vessel eliminates corrosion concerns
- PowerBump™ System eliminates moving parts
- Fully-automatic controller makes bumping quick and easy
- Integrated diffuser evenly distributes water flow





ALL NEW POWERBUMP™ SYSTEM

The FP-Series RMF is revolutionary in how it works. The filter incorporates an innovative, patent pending, new bumping technology called PowerBump. As opposed to bumping by pneumatically raising/lowering a tube sheet, the FP-Series bumps hydraulically, using only the flow of water. Doing so delivers a more powerful bump, driving 20 times more water through the flex-tubes and creating a 30% stronger impulse. Eliminating moving parts simplifies design, improves reliability, facilitates maintenance and reduces size.





Certified to NSF/ANSI Standard-50 by IAPMO R&T

SPECIFICATIONS

Model	FP-24-36-366
Bumping Method	PowerBump™ System
Material of Construction	Fiberglass (FRP)
Flow Rate	107-300 gpm (24-68 m³/hr)
Filtration Rate	0.5-1.4 gpm/ft² (1.2-3.4 m³/hr/m²)
Filtration Area	214 ft² (19.9 m²)
Max Operating Pressure	50 psi (3.5 bar)
System Height	76.32" (194 cm)
System Width	32.5" (82.6 cm)
Tank Volume	105 gal (0.40 m³)
Connections	Flanged 4" (10.2 cm)
Regeneration	Push-Button Automatic
Dry Weight	310 lbs (141 kg)
Operating Weight	1,202 lbs (545 kg)
Perlite Charge	17 lbs (7.7 kg)

334 Knight Street Suite 3100 Warwick, RI 02886 USA

+1 (866) 926-8420 (toll-free) +1 401-821-2200 (toll) www.evoqua.com



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