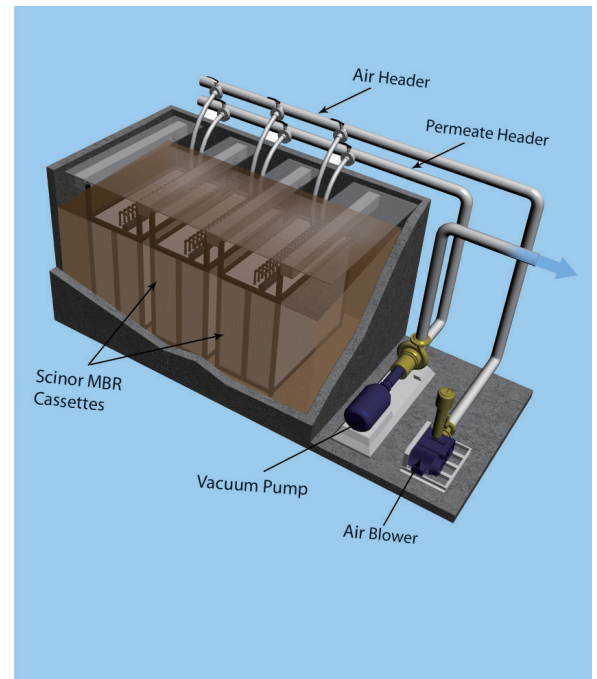


# Scinor® SMT600-BR30

## Membrane Bioreactor Module

Scinor SMT600 Ultrafiltration modules utilizing our state-of-the-art Thermally Induced Phase Separation (TIPS) PVDF membranes provide for the highest permeability, mechanical strength, and chemical tolerance in the industry. The BR30 modules are designed to be operated in either activated sludge as an MBR or as a tertiary filter after clarification for stringent reuse applications. They also retrofit major membrane vendor installations giving end-users a choice when replacing membranes.

SMT600-BR30 modules are applied in vacuum operation during filtration mode that draws water outside-in through the fibers, removing all solids. Cassette, fiber distribution, and associated piping design results in low energy consumption and a significantly smaller footprint than other MBRs in the market providing for the most cost-effective wastewater solution. Cleaning processes used to maintain stable operation are air scour, relaxation, maintenance clean, and clean-in-place.



## Product Advantages

### Excellent Filtered Water Quality

- Tight 0.1  $\mu\text{m}$  pore size distribution
- Low fiber breakage rate

### Long Operational Life

- High mechanical strength and durability
- >5000 mg/L Sodium Hypochlorite tolerance
- Less sludge buildup due to optimized fiber distribution

### Low Capital Cost

- High flux rates on activated sludge and secondary effluent

### Low Operating and Maintenance Requirements

- Low energy and chemical consumption due to higher permeability
- Automatic operation
- Minimal air scrub requirement due to optimized module design

### Small Footprint

- High hollow-fiber packing density
- Integrated air and hydraulic piping

Retrofit modules available for all major membrane suppliers

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Please visit [scinor.com](http://scinor.com) for further information.



# Specifications

## Parameters

Scinor® Module	Part Number	SMT600-BR30
	Fiber Material	Polyvinylidene Fluoride (PVDF)
	Effective Area	323 ft <sup>2</sup> (30m <sup>2</sup> )
	Nominal Pore Size	0.1 µm
	Fiber ID/OD	1.2mm/1.8mm
	Geometry (LxWxH)	49.2 in. x 1.2 in. x 78.7 in. (1250mm x 30mm x 2000mm)
	Port Size	DN25
	Housing Material	ABS
	Potting Material	PU
Operating Parameters	Temperature	33-104°F (1-40 C)
	pH Range	1-11 Continuous
	Max. NaClO	5000 mg/L
	Air Scour Flow	1.9–3.7 scfm/module (3–6 Nm <sup>3</sup> /hr/module)
	CIP pH Range	1-13
	Max. TMP	8.0 psi (0.055 MPa)
	Operating TMP	≤6 psi (≤0.04 MPa)
Filtered Water Performance	TSS	non-detect
	Silt Density Index	≤3

## Cassette Configuration

Cassette	M600	M1080	M1620
No. of Modules	20	36	54
Membrane Area	6,458 ft <sup>2</sup> (600m <sup>2</sup> )	11,625 ft <sup>2</sup> (1080m <sup>2</sup> )	17,222 ft <sup>2</sup> (1600m <sup>2</sup> )
Geometry	50 in. x 42.7 in. x 132 in. (1270mm x 1085mm x 3353mm)	50 in. x 71.1 in. x 132 in. (1270mm x 1805mm x 3353mm)	50 in. x 103 in. x 132 in. (1270mm x 2615mm x 3353mm)



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