

## EcoFlon™ PTFE Hollow Fiber Membrane Module

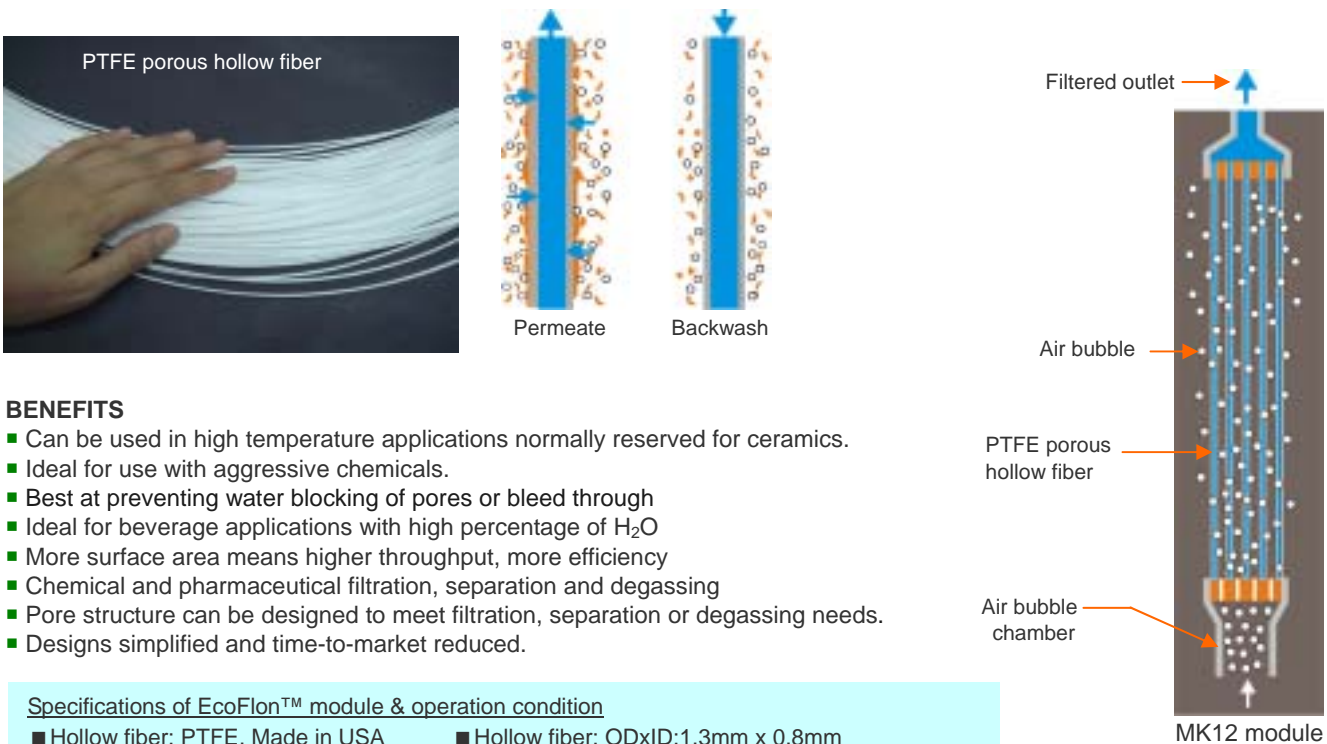
The unique design of EcoFlon™ PTFE hollow fiber membrane module eliminates accumulation of sludge on the membrane surface, even at reduced aeration rates. High and stable permeate fluxes are achieved with our new high performance membrane combined with reverse filtration using treated water.

**■ PTFE hollow fibers:**

PTFE porous hollow fiber sets new standards in flow, durability and strength. Resistant to most waste streams and cleaning agents. PTFE porous hollow fiber has precisely controlled porosity, allowing optimization to the suspended solid while maximizing flux. Proprietary manufacturing processes increase mechanical strength, ensuring consistent recovery post cleaning, and integral end terminations for the life of the system.

**■ Lower air consumption and operating cost**

EcoFlon™ MBR systems feature membrane modules with uniquely specifically designed that reduce fouling and air consumption.



**BENEFITS**

- Can be used in high temperature applications normally reserved for ceramics.
- Ideal for use with aggressive chemicals.
- Best at preventing water blocking of pores or bleed through
- Ideal for beverage applications with high percentage of H<sub>2</sub>O
- More surface area means higher throughput, more efficiency
- Chemical and pharmaceutical filtration, separation and degassing
- Pore structure can be designed to meet filtration, separation or degassing needs.
- Designs simplified and time-to-market reduced.

Specifications of EcoFlon™ module & operation condition

- Hollow fiber: PTFE, Made in USA
- Hollow fiber: ODxID:1.3mm x 0.8mm
- Pore size: 0.1µm
- Max. operation temp.: 40°C
- Filtration pressure: >90 kPa, Backwash pressure: <200 Kpa
- pH range: 6~8 at activated sludge aeration
- Flux rate: 0.2~0.75m<sup>3</sup>/m<sup>2</sup>/day
- Operation cycle: Permeate 9min., Backwash 1min. (Normally no backwash is carried out)
- Scouring air rate:5~6 L/min.m<sup>2</sup>



MK25-1000 module



MK12-1000/4 module unit



MF-20 module

**EcoFlon™ Module Specification**

| Module Type                  | MK25-1000    | MK12-1000  | MK12-1500  | MK12-2000  | MF-12.5    | MF-20      |
|------------------------------|--------------|------------|------------|------------|------------|------------|
| Membrane area,m <sup>2</sup> | 30.0         | 14.4       | 21.6       | 28.8       | 12.5       | 20.0       |
| Dimensions:(cm)              | L36xW36xH100 | Ø16 x H150 | Ø16 x H200 | Ø16 x H250 | W54 x H103 | W54 x H153 |

■ Specifications subject without notice due to technical modifications or production changes. ■ Custom module size available