

Pall Filter Systems; Built for Today, Designed for Tomorrow

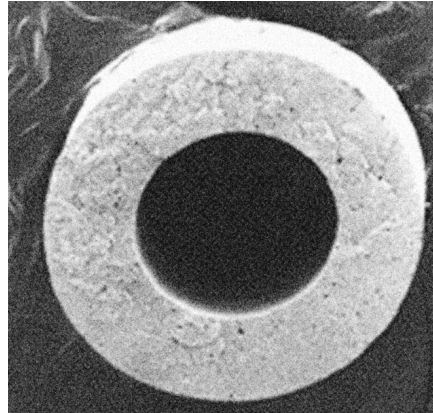
Introduction

Microza* Hollow Fiber Membrane Systems are designed to integrate with existing infrastructure or as a new, stand-alone infrastructure package.

Features of Microza Hollow Fiber Systems:

- High Recovery
- Small Footprint
- Simple Operation
- Modular in Design

The water and wastewater professional can count on Pall performance to meet the treatment challenges of today and tomorrow.



Microfiltration hollow fiber photomicrograph



Pall Hollow Fiber Filtration System

Microza Hollow Fiber Modules Are:

- Mechanically Strong
- Oxidant Resistant
- Highly Permeable
- Available in MF and UF Grades

Microza Filtration Systems: Protect Drinking Water

Stop:

- *Cryptosporidium*
- *Giardia Lamblia*
- Virus
- Bacteria

Remove:

- Iron (Oxidized)
- Manganese (Oxidized)
- Organics
- THM precursors

Reduce / Eliminate:

- Flocculant Addition
- Coagulant Addition
- Disinfection Chemical

Guard:

- Reverse Osmosis
- Nanofiltration
- Distribution



Pall module cut-away showing hollow fiber membranes

Microza* Filtration Module Specification

Dimensions

	Microfilter	Ultrafilter
Membrane I.D., inches (mm)	0.027 (0.7)	0.031 (0.8)
Membrane O.D., inches (mm)	0.051 (1.3)	0.055 (1.4)
Membrane Area, ft ² (m ²), based on fiber o.d.	538 (50)	441 (41)
Membrane Length, inches (m)	80 (2)	80 (2)
Module Diameter, inches (mm)	6 (165)	5 (140)

Capacity

Nominal Pore Size	0.1µm	13K or 80K MWCO
Water Flux, gfd (lmh) [MWCO]	259 (440)	57 (97) [13K]
@ 15 psi, 25°C, field trial		100 (170) [80K]

Operating Conditions

Maximum Operating Temperature °C (°F)	40 (104)	40 (104)
pH Range	1 to 10	2 to 10
Maximum TMP Differential psi (bar)	36 (2.5)	44 (3)
Maximum Inlet Pressure psi (bar)	36 (2.5)	44 (3)
Maximum Chlorine, Cleaning (ppm)	Up to 5000	Up to 1000
Maximum Caustic, Cleaning (N)	1	0.1
Maximum Acid, Cleaning (N)	1	1

Materials

Membrane	PVDF	PAN
Housing	ABS	PVC
Potting Material	Polyurethane	Epoxy Resin
Gasket	NBR	NBR
Preservative (same for MF and UF)	Glycerin 65% + Ethanol 2% + DI water	

*Microza is a registered trademark of Asahi Kasei Corporation.



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