



AQUABRANE
WATER TECHNOLOGIES PVT. LTD.



redefining ultrafiltration



S Series Ultrafiltration Membrane Modules

by
AQUABRANE

Aquabrane uses the dry jet wet spinning phase inversion technology for manufacturing the hollow fiber Ultrafiltration membranes. The membranes are manufactured using highest quality polymers & chemicals under continuous supervision of well experienced scientific and technical team. Continuous R&D is being carried out to further optimize the membrane performance.



membrane development

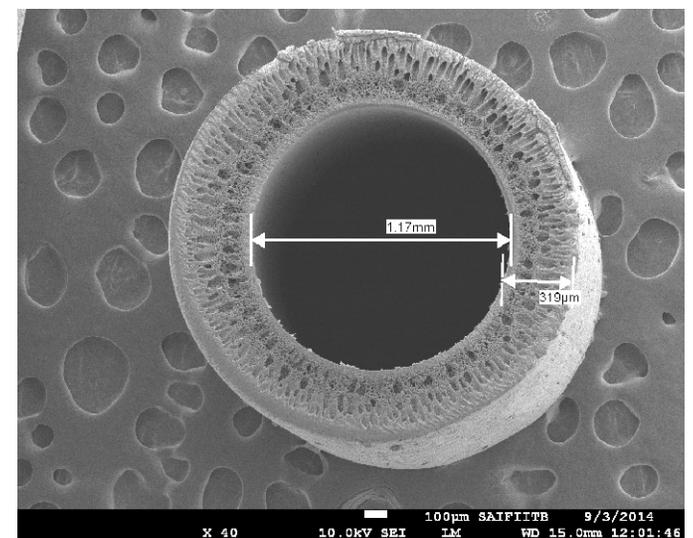
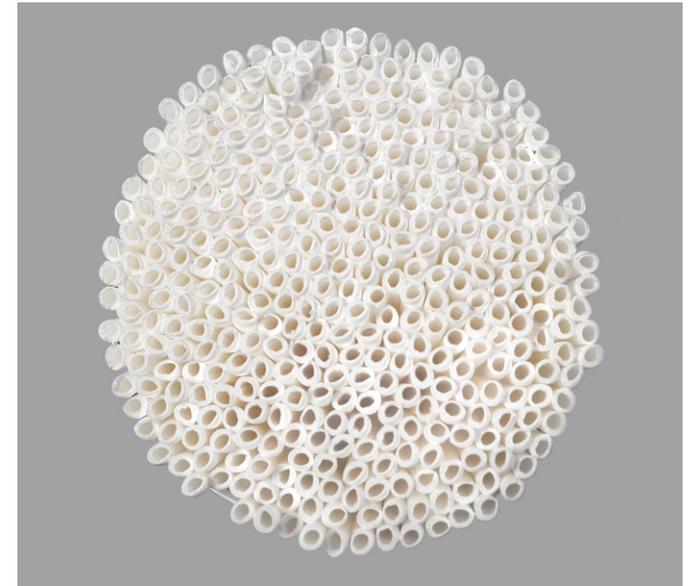
Aquabrane has developed a consistent high quality Out-to-In hollow fiber Ultrafiltration Membrane with extremely low Transmembrane Pressure (TMP)

The membranes are tested by leading government & private institutes for its consistency, specification & uniformity of pore size distribution

Aquabrane has long-term membrane research partnerships with several universities and research institutes

Periodically the SEMs (Scanning Electron Microscope) images of the membranes are sent to various institutes for Quality audit-check

“quality comes with consistency”

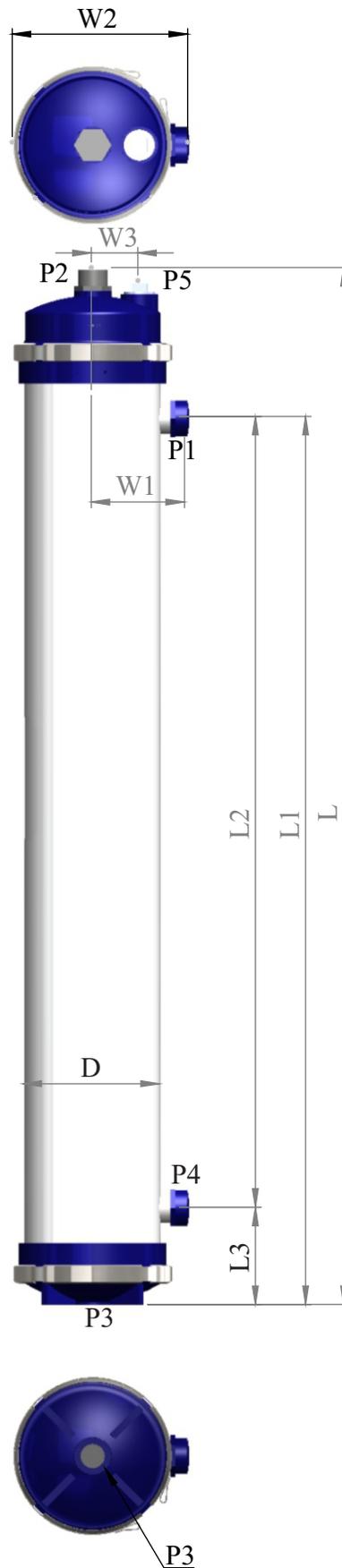


	Model	S 860	S 830	S 430	
Membrane Specification	Membrane Material	Modified PES			
	Surface Properties	Hydrophilic			
	Fiber ID	1.2 mm			
	Fiber OD	2 mm			
	Wall Thickness	0.4 mm			
	Membrane Area (m ²)	40	20	6	
	Pore Size	0.03 μm			
Module Characteristics	Membrane Material	Modified PES			
	Housing Material	UPVC			
	End Cap Material	Glass Filled ABS	UPVC		
	Nozzle Size	1.5"NPT	0.5/0.75"NPT		
	Potting Material	Aquabrane Proprietary Potting Compound			
	Weight (Empty / water filled) - Kgs	35/40	23/27	6/7.5	
Operating Parameters	Flow Path	Outside - In			
	Operating Mode	Dead End or Cross Flow			
	Clean Water Flux at 20 Deg. Cel.	125 LMH			
	Maximum Feed Pressure	1.5 bar (22 psi)			
	Transmembrane Pressure (TMP)	0.55 - 0.83 bar (8 - 12 psi)			
	pH - Continuous Operation	3 - 9			
	pH - Cleaning	2 - 11			
	Temperature	0 - 45°C			
	Chlorine Tolerance	100000 ppm hrs			
	Maximum Feed TSS	100 mg/L			
	Maximum Feed Turbidity	150 NTU			
	Maximum Total Oil & Grease	< 1 PPM			
	Maximum NaOCl - Continuous	20 PPM			
	Backwash Flux Range	Greater of 1.5 times Constant Flux or 3m ³ /hr	Greater of 1.5 times Constant Flux or 1.5 m ³ /hr	Greater of 1.5 times Constant Flux or 0.5 m ³ /hr	
	Backwash Feed Pressure	1 - 1.4 bar (14 - 20 psi)			
	Backwash Frequency & duration	Depending upon feed water quality, backwash to be carried out with 20 ppm NaOCl at an interval of 20 - 60 mins or 20% Increase in TMP, whichever is earlier for 30 - 60 seconds. However 1 backwash with 200 ppm NaOCl must be carried out once a day.			
	Forward Flush	60 Sec forward flush is recommended once in 12 hours for fresh water & once In 6 hours for waste water & sea water.			
Air Scouring - Pressure	0.55 - 1 bar (8 - 15 psi)				
Air Scouring - Volume	7 Nm ³ /hr	3.6 Nm ³ /hr	1.75 Nm ³ /hr		
Air Scouring - Duration	30 Secs + Backwash time				
Maximum NaOCl during Cleaning	1000 ppm				

Module Properties	Model		
	S860	S830	S430
L(mm)	1667	1030	918
L1(mm)	1428	791	760
L2(mm)	1271	635	640
L3(mm)	156	156	120
D(mm)	219	219	114
P1(∅ inch)	1 1/2" MNPT	1 1/2" MNPT	3/4" MNPT
P2(∅ inch)	1 1/2" MNPT	1 1/2" MNPT	3/4" MNPT
P3(∅ inch)	1 1/2" FNPT	1 1/2" FNPT	3/4" MNPT
P4(∅ inch)	1 1/2" MNPT	1 1/2" MNPT	3/4" MNPT
P5(∅ inch)	1 1/2" FNPT	1 1/2" FNPT	3/4" MNPT
W1(mm)	150	150	82
W2(mm)	282	282	146
W3(mm)	75	75	NA

PORT CONFIGURATION:

P1 : FEED INLET / CIP & BACKWASH OUTLET
P2 : AIR INLET
P3 : FILTRATE / BACKWASH
P4 : CIP INLET / CONCENTRATE
P5 : FILTRATE OUTLET (OPTIONAL)



Our Expertise:

Ultrafiltration Membranes | Ultrafiltration Systems | Ceramic Membranes Modules

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The logo for Aquabrane Water Technologies PVT. LTD. features the word "AQUABRANE" in a large, blue, serif font. A stylized blue wave graphic is positioned below the letter 'Q'. Underneath "AQUABRANE", the words "WATER TECHNOLOGIES PVT. LTD." are written in a smaller, blue, sans-serif font.

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