UNISOL
Membrane Technology



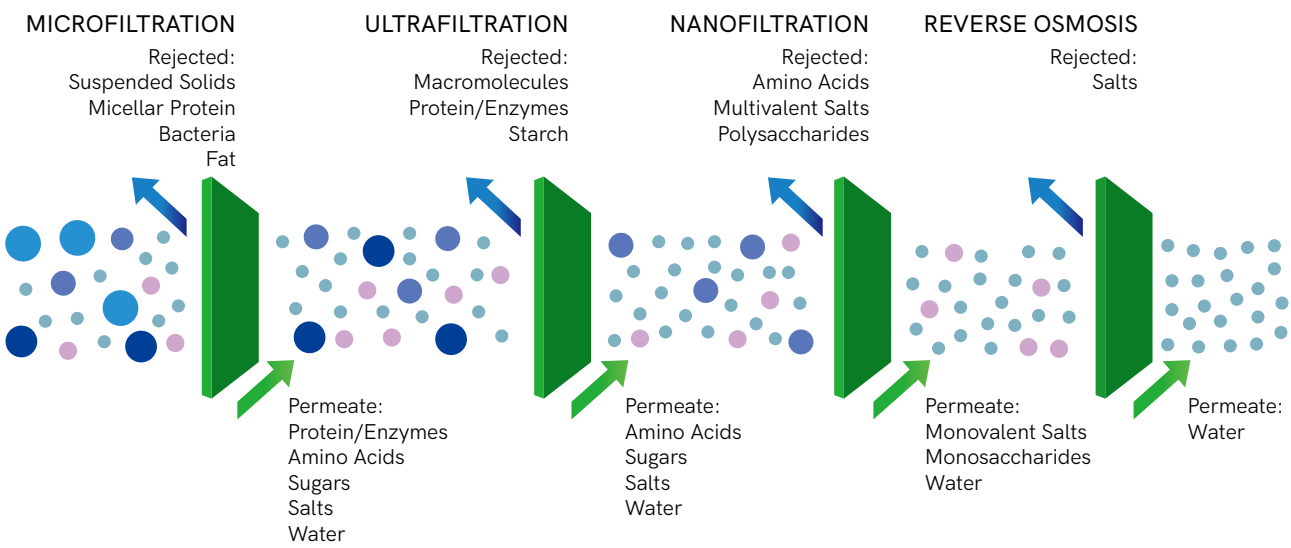
SPIRAL WOUND

Membrane Elements

Wide Range ● FDA Compliant ● Customized

Wide Range Of Spiral Wound Elements

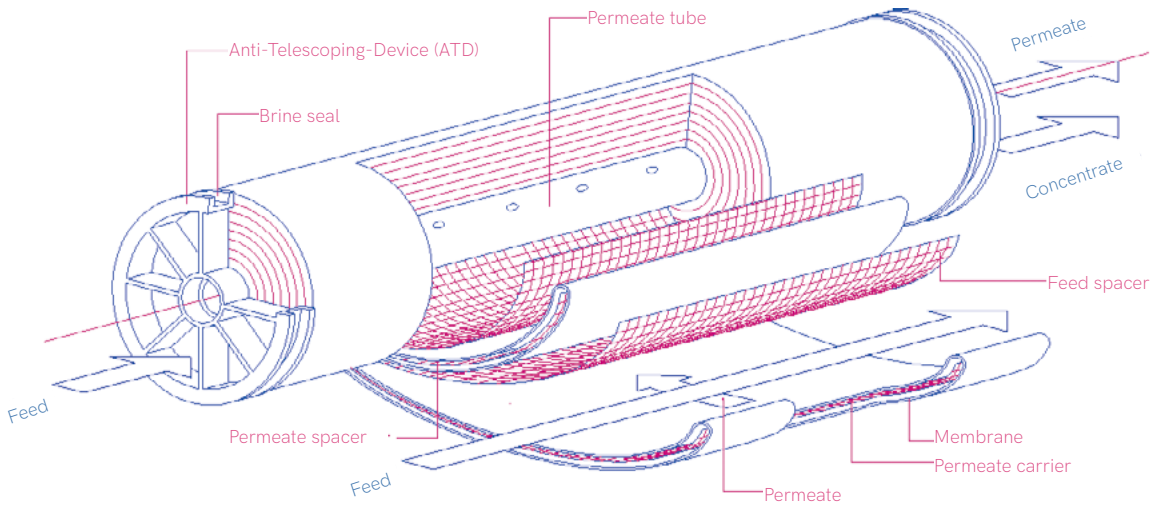
To cover the high variety of applications, UNISOL provides the complete spectrum of MF, UF, NF and RO spiral wound elements, the module design stretches from standard elements to fully customized specialty products.



Examples Of Applications

E-coat	Standardization of milk	Cream cheese production
Concentration of protein and gelatin	Whey concentration processing	Clarification of cheese brine
Enzymes, fermentation broths	Clarification of soy sauce	Acid recovery
Caustic recovery	Industrial water	Oil / Water emulsions

Spiral Wound Element Construction



Product Codes For Spiral Wound Elements

Module: SN UPS010 8038 C

SN Design / Application

Type

SN	Sanitary design
SH	Sanitary& High °C
ID	Industrial Design
EC	Electro Coating
PD	Pharmaceutical Design
FG	Fiberglass
CR	Caustic stable
AR	Acid stable
SR	Solvent stable
HP	High preseure
TR	Temp. Resistant
HS	Heat sanitizable

Here
Sanitary Design

UPS010 Membrane

Membrane Type

UPS	Polyethersulfone
USP	Polysulfone
UPV	Polyvinylidene Flouride
MPV	Polyvinylidene Flouride
NFDK	Piperazinamide
NFDL	Piperazinamide
BWFR	Polyamide
SWHR	Polyamide

Here
Polyethersulfone
MWCO 10kDa

* See **Common Membane Types** for more

8038 Diameter / Length

Standard Dimensions

2540
3838
4040
4333
6338
8038
8040
8338

Here
Diameter 8.0inch
Length 38inch

C Feed spacer

Standard Feed Spacers

A	34mil (parallel)
B	31mil (diamond)
C	46mil (diamond)
D	51mil (parallel)
E	65mil (diamond)
F	80mil (diamond)
G	80mil (parallel)
H	60mil (parallel)
J	28mil (diamond)
M	34mil (diamond)

Here
46mil diamond

1 mil = 0.001 " = 0.0254 mm

Advantages

FDA Compliant Materials

Wide range of membrane types

High temperature resistance

pH
High pH, solvent resistance

Great mechanical strength

Customization

Operating Condition For Spiral Wound Elements

Type	SN/ID/PD	FG	EC	SH	CR	AR	SR	HP	TR	HS
Max. operating pressure loss /bar	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Max. operating pressure loss /psi	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Max. Temperature /°C	50	50	50	80	50	50	50	50	80	80
Max. Temperature / °F	122	122	122	176	122	122	122	122	176	176
pH range during filtration	2-11	2-11	2-11	2-11	3-12	1-12	2-12	2-11	2-11	2-11
Outer wrap	Net Wrap	FRP	Net Wrap	Net Wrap	FRP	FRP	Net Wrap	FRP	FRP	Net Wrap

WE SUPPORT YOU - WORLDWIDE!



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UNISOL MEMBRANE TECHNOLOGY reserves the right to change specifications without prior notification.
For the latest version, please refer to the internet. info@unisol-global.com
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