

Plec de prescripcions tècniques que regeixen el contracte de subministrament de 348 unitats de membranes d'òsmosi inversa per a les estacions de tractament d'aigua ETAP Sagnier i Mas Blau

Número expedient C-2025-03

Sumari

1. Objecte del contracte
2. Característiques tècniques de les membranes a subministrar.
3. Lloc de subministrament
4. Garantia
5. Projeccions de les membranes

1. Objecte del contracte

Subministrament de 348 unitats de membranes d'òsmosi inversa per a les estacions de tractament d'aigua de l'ETAP de Sagnier i de l'ETAP de Mas Blau. Degut a la diferent composició salina de les aigües a tractar es subministraran 2 models diferents:

- 174 unitats de membranes de la marca Dow chemical, model BW30HRLE-440i (dry) per a l'ETAP de Sagnier.
- 174 unitats de membranes de la marca Dow chemical, model XLE-440i (wet) per a l'ETAP de Mas blau.

La funció d'aquestes membranes és retenir les sals i els elements minerals de l'aigua que es capta. El subministrament inclou l'adquisició, el transport i el lliurament de les membranes en cada ETAP.

Actualment les dues ETAPs tenen instal·lades les membranes de la marca DOW Chemical, model tipus BW30HRLE-440i, totes amb el sistema ILEC™. Aquest sistema és essencial per al bon funcionament de la infraestructura, perquè redueix el risc de fuites en les juntes tòriques de connexionat entre membranes, que poden causar una mala qualitat de l'aigua.

Per aquest motiu es demana que les membranes disposin del sistema ILEC™, havent-t'hi al mercat una única empresa que les fabrica amb el sistema ILEC™ i és DOW CHEMICAL, pel que les membranes han de ser de la marca i model descrits anteriorment.

L'ETAP de Mas Blau té una millor qualitat d'aigua en els seus pous, des del punt de vista de concentració de sals, i es vol aprofitar aquesta característica per a substituir el model actual per un nou model de membranes de molt baix consum energètic de DOW Chemical, el model XLE-440i.

La classificació de l'objecte del contracte d'obres en la CPV (Vocabulari Comú de Contractes Públics) és la

corresponent a "Maquinària i aparells per a filtrar o depurar aigua" núm. 44163160-9.

2. Característiques tècniques de les membranes a subministrar.

Les membranes a subministrar seran:

- marca DOW CHEMICAL
- models:
 - o 174 unitats de tipus BW30HRLE-440i seques (dry) per a l'ETAP Sagnier
 - o 174 unitats de tipus XLE-440i humides (wet) per a l'ETAP Mas Blau

FilmTec™ BW30HRLE-440i Element

Optimized for reverse osmosis managers seeking advanced, low-energy membrane treatment for purified pre-treatment waters

Key Features

- Offers good salt-rejection with lower energy consumption.
- Delivers excellent silica, boron, nitrate, IPA and ammonium rejection.
- Provides the most effective cleaning performance, robustness and durability due to its widest cleaning pH range (1-13) and chemical tolerance.
- Includes iLEC™ interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality

Key Applications

- Second pass RO in different applications, such as industrial utility water, seawater desalination
- Ultrapure water

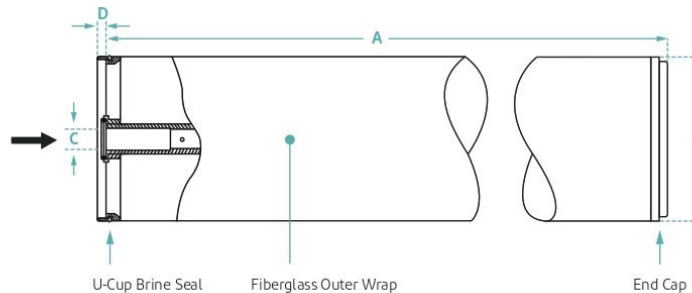


Typical Properties

Product	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
FilmTec™ BW30HRLE-440i element	440 (41)	28	12,650 (48)	99.3	99.1

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 150 psi (10.3 bar), 77°F (25°C), pH 8 and 15% recovery.
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.
3. Sales specifications may vary as design revisions take place.

Element Dimensions



Dimensions – inches (mm)	
A	40.0 (1,016)
B	7.9 (201)
C	1.125 ID (29)
D	0.5 (12.7)

ID = Inner Diameter
1 inch = 25.4 mm

1. For element weight information refer to [What is the weight of FilmTec™ elements as delivered?](#) (Form No. 45-D04811-en)
2. For element packaging and shipping information refer to [How are FilmTec™ elements packaged and shipped?](#) (Form No. 45-D04811-en)
3. Individual elements with iLEC™ interlocking Endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm)

Suggested Operating Conditions

Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Temperature ¹	113°F (45°C)
Maximum Operating Pressure	600 psi (41 bar)
Maximum Pressure Drop	
Per Element	15 psi (1.0 bar)
Per Pressure Vessel (Minimum 4 Elements)	50 psi (3.5 bar)
pH Range	
Continuous Operation ¹	2 - 11
Short-Term Cleaning (30 min.) ²	1 - 13
Maximum Feed Flow ³	75 gpm (17 m ³ /h)
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ⁴	< 0.1 ppm

1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
2. Refer to [Cleaning Procedures for FilmTec™ Elements](#) (Form No. 45-D01696-en).
3. For recommended feed and permeate flow rates, flux, and recovery for various feed sources, refer to [Membrane System Design Guidelines for 8" FilmTec™ Elements](#) (Form No. 45-D01695-en).
4. Oxidation damage is not covered under warranty. DuPont recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

Important General Information

- Keep elements moist at all times after initial wetting.
- For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the [FilmTec™ Reverse Osmosis / Nanofiltration Elements Operation Excellence and Limiting Conditions Tech Fact](#) (Form No. 45-D04388-en).
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side backpressure at all times.
- Permeate obtained from the first hour of operation should be discarded.
- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

Please consider good operating practices for the optimal performance of the Reverse Osmosis membrane elements to assure damage free operation:

1. [Loading of Pressure Vessels – Preparation & Element Loading](#) (Form No. 45-D01602-en)
2. System Operation, including plant [Start-Up Sequence](#) (Form No. 45-D01609-en) and [RO & NF Systems Shutdown](#) (Form No. 45-D01613-en)
3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation, and troubleshooting is given in the [FilmTec™ Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.



Have a question? Contact us at:
dupont.com/water/contact-us

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FilmTec™ XLE-440i Element

Extra-Low-Energy Reverse Osmosis Brackish Water Membrane Element

Key Features

- Offers good salt-rejection with extraordinary lower energy consumption.
- Delivers excellent silica, nitrate and ammonium rejection.
- Delivers the most effective cleaning performance, robustness and durability due to its widest cleaning pH range (1-13) tolerance.
- Includes FilmTec™ iLEC™ interlocking end caps, reducing system operating costs and the risk of O-ring leaks that can cause poor water quality.

Key Applications

- Municipal drinking water
- Industrial Utility Water

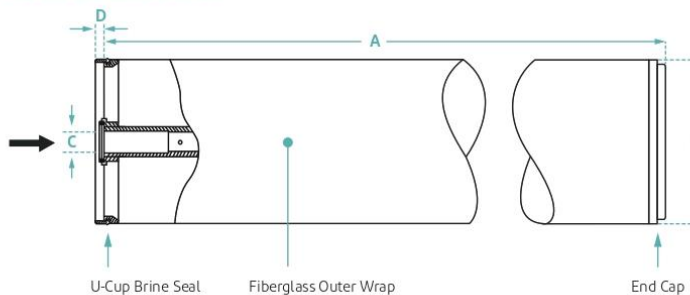


Typical Properties

Product	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
FilmTec™ XLE-440i element	440 (41)	28	14,000 (53)	99.0	97.0

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 125 psi (8.6 bar), 77°F (25°C), pH 8 and 15% recovery.
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.
3. Sales specifications may vary as design revisions take place.

Element Dimensions



Dimensions – inches (mm)	
A	40.0 (1,016)
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Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ⁴	< 0.1 ppm

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3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation, and troubleshooting is given in the [FilmTec™ Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

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Form No. 45-D01709-en, Rev. 3
January 2025

3. Lloc de subministrament

Les membranes s'entregaran a les plantes de tractament on s'instal·laran:

- 174 unitats de membranes de la marca Dow chemical, model BW30HRLE-440i (dry) per a l'ETAP de Sagnier, ubicada a c/ Frederica Montseny núm 31, 08820 El Prat de Llobregat.
- 174 unitats de membranes de la marca Dow chemical, model XLE-440i (wet) per a l'ETAP de Mas blau, ubicada a c/de la Selva 5, Pol. Ind. Mas Blau, 08820 El Prat de Llobregat

4. Garantia

Les membranes tindran una garantia de:

- **12 mesos per defecte de fabricació** des de la data de recepció.
- Garantia de **Performance Inicial** que garanteix que els elements lliurats compleixen amb el cabal de permeat i rebuig de sals segons especifica en la seva fulla de dades. La duració d'aquesta garantia serà d'un mínim de 30 dies des de la posada en marxa, o
 - o 6 mesos des del lliurament si són humides.
 - o 12 mesos des del lliurament si són seques.
- **Garantia prorratejada de l'element de 3 anys** de duració a partir del que passi en primer lloc:
 - o Data d'instal·lació dels elements o
 - o Des de la recepció de les membranes:
 - 3 mesos si són humides,
 - 12 mesos si són seques.

5. Projeccions de les membranes

S'haurà d'entregar les projeccions d'explotació de la planta amb les membranes seleccionades per cadascuna.

A continuació es facilita les característiques de funcionament de cada planta, i en l'annex 1, s'adjunta les analítiques de cada pou.

	ETAP SAGNIER	ETAP MAS BLAU
POU D'ALIMENTACIÓ	17	15
CABAL AIGUA OSMOTITZADA (m³/h)	150	150
PRESSIO SORTIDA AIGUA REMINERALITZADA (BAR)	0,6	0,6
TASA CONVERSIO	81%	78%
TUBS VESSEL EN PRIMERA ETAPA (uts)	18	18
TUBS VESSEL EN SEGONA ETAPA (uts)	9	9
MEMBRANES EN CADA TUB VESSEL (uts)	6	6
Temperatura Mínima Aigua (°C)	17	17
Temperatura Màxima Aigua (°C)	19	19

Les projeccions han de garantir que el nivell de clorurs del permeat final estigui per sota de 150mg/l. Tot i que el Real decret 3/2023 té un valor paramètric inferior a 250mg/l, es considera que l'aigua de l'aquífer pot variar en episodis de sequera i es vol garantir la qualitat final.

El Prat de Llobregat, Agost 2025

Oliver Triano Gómez
Tècnic de la secció de Producció

ANNEX I: Analítiques



**ANÀLISI XARXA MUNICIPAL D'ABASTAMENT / APSA 2025 (AX)
FEBRER / 2025**

		POU 17	POU 15
DETERMINACIONS	Núm. Mostra	178170	178489
	Data recollida	04/04/2013	10/02/2025
Microorganismes aerobis 22°C	ufc/mL	<1	Presència
Bacteris coliformes	ufc/100 mL	<1	<1
Escherichia coli	ufc/100 mL	<1	<1
Enterococs	ufc/100 mL	<1	---
Clostridium perfringens	ufc/100 mL	<1	<1
Colífags somàtics	ufp/100 mL	---	---
Clor lliure	mg Cl ₂ /L	<0,05	0,0
Clor total	mg Cl ₂ /L	<0,05	0,0
Clor combinat	mg Cl ₂ /L	---	0,0
Color	mg/L Pt/Co	<5	<5
Temperatura "in situ"	°C	17,8	16,9
pH	Unitats	7,5	7,3
Conductivitat (20°C)	µS/cm	8000	5030
Nitrits	mg NO ₂ ⁻ /L	<0,05	0,01
Amoni	mg NH ₄ ⁺ /L	<0,04	0,00
Oxidabilitat	mg O ₂ /L	6,0	1,2
Terbolesa	U.N.F.	0,64	0,22
Olor	---	---	---
Sabor	---	---	---
Clorurs	mg Cl ⁻ /L	2716	1517,0
Alcalinitat total	mg CaCO ₃ ⁻ /L	181	236
Duresa total	mg CaCO ₃ ⁻ /L	1569	1181
Calci	mg/L	371	305,0
Magnesi	mg/L	156,0	102,0
Sodi	mg/L	1266	727,0
Potassi	mg/L	18,2	16,7
Carbonats	mg CO ₃ ²⁻ /L	0	0
Bicarbonats	mg HCO ₃ ⁻ /L	220	286
Cianurs	µg/L	---	---
Crom (VI)	µg/L	---	---
Bor	mg/L	---	---
Coure	µg/L	---	---
Zinc	µg/L	---	---
Sòlids totals dissolts	mg/L	6433	---
Nitrats	mg NO ₃ ⁻ /L	0	7,0
Sulfats	mg SO ₄ ²⁻ /L	293	305,0
Bromurs	mg/L	---	---

**ANÀLISI XARXA MUNICIPAL D'ABASTAMENT / APSA 2025 (AX)
FEBRER / 2025**

		POU 17	POU 15
DETERMINACIONS	Núm. Mostra	178170	178489
	Data recollida	04/04/2013	10/02/2025
Fluorurs	mg/L	---	---
Absorbància a 254 nm/100 cm		---	---
Clorats	mg/L	---	---
Clorits	mg/L	---	---
TOC	mg C/L	0,64	---
Índex Langelier (LSI)	Unitats	0,8	0,7
CATIONS-ANIONS	---	0,5700	1,7243
(CATIONS+ANIONS)/2	---	86,5992	54,8014
ERROR	%	0,7	3,1
Balanç iònic	---	Acceptable	Acceptable
pH eq.	Càlcul	6,7	6,6
Index de Larson-Skold	---	0,8	10,5
CO2 (gràfic pH/Alk)	mg/L	12,8	21,5
Alumini (Al)	µg/L	---	---
Antimoni (Sb)	µg/L	---	---
Arsènic (As)	µg/L	---	---
Cadmi (Cd)	µg/L	---	---
Crom (Cr)	µg/L	---	---
Ferro (Fe)	µg/L	220	26
Manganès (Mn)	µg/L	68	11
Mercuri (Hg)	µg/L	---	---
Níquel (Ni)	µg/L	---	---
Plom (Pb)	µg/L	---	---
Seleni (Se)	µg/L	---	---
Urani (U)	µg/L	---	---
Bromats	µg/L	---	---
Acrilamida	µg/L	---	---
Clorur de Vinil	µg/L	---	---
Epiclorhidrina	µg/L	---	---
Bisfenol A	µg/L	---	---

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		POU 17	POU 15
		178170	178489
DETERMINACIONS	Núm. Mostra Data recollida	04/04/2013	10/02/2025
Àcid bromocloroacètic	µg/L	---	---
Àcid dibromoacètic	µg/L	---	---
Àcid dicloroacètic	µg/L	---	---
Àcid monobromoacètic	µg/L	---	---
Àcid monocloroacètic	µg/L	---	---
Àcid tricloroacètic	µg/L	---	---
Suma d'Àcids Haloacètics (HAH)	µg/L	0,000	0,000
Àcid perfluorobutà sulfònic	µg/L	---	---
Àcid perfluorobutanoic	µg/L	---	---
Àcid perfluorodecà sulfònic	µg/L	---	---
Àcid perfluorodecanoic	µg/L	---	---
Àcid perfluorododecà sulfònic	µg/L	---	---
Àcid perfluorododecanoic	µg/L	---	---
Àcid perfluoroheptà sulfònic	µg/L	---	---
Àcid perfluoroheptanoic	µg/L	---	---
Àcid perfluorohexà sulfònic	µg/L	---	---
Àcid perfluorohexanoic	µg/L	---	---
Àcid perfluorononà sulfònic	µg/L	---	---
Àcid perfluorononanoic	µg/L	---	---
Àcid perfluorooctà sulfònic	µg/L	---	---
Àcid perfluorooctanoic	µg/L	---	---
Àcid perfluoropentà sulfònic	µg/L	---	---
Àcid perfluoropentanoic	µg/L	---	---
Àcid perfluorotridecà sulfònic	µg/L	---	---
Àcid perfluorotridecanoic	µg/L	---	---
Àcid perfluoroundecà sulfònic	µg/L	---	---
Àcid perfluoroundecanoic	µg/L	---	---
Suma de PFAS	µg/L	0,0000	0,0000
Suma de 4 PFAS	µg/L	0,0000	0,0000
cloroform (*)	µg/L	0,1	0,3
1,2-dicloroetà	µg/L	nq.	nq.
tricloroetà	µg/L	0,1	0,7
bromodiclorometà (*)	µg/L	nq.	0,1
tetracloroetà	µg/L	nq.	1,9
dibromoclorometà (*)	µg/L	nq.	nq.
bromoform (*)	µg/L	nq.	0,8
1,1-dicloroetà	µg/L	nq.	2,5
diclorometà	µg/L	nq.	nq.
t-1,2-dicloroetà	µg/L	nq.	nq.

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		POU 17	POU 15
		178170	178489
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DETERMINACIONS	Núm. Mostra Data recollida		
c-1,2-dicloroetà	µg/L	nq.	nq.
1,1,1-tricloroetà	µg/L	nq.	nq.
tetraclorometà	µg/L	nq.	nq.
1,2-dicloropropà	µg/L	nq.	nq.
c-1,3-dicloropropè	µg/L	nq.	nq.
t-1,3-dicloropropè	µg/L	nq.	nq.
1,1,2-tricloroetà	µg/L	nq.	4,3
1,1,2,2,-tetracloroetà	µg/L	0,1	nq.
1,3-diclorobenzè	µg/L	nq.	nq.
1,4-diclorobenzè	µg/L	nq.	nq.
1,2-diclorobenzè	µg/L	nq.	nq.
1,1-dicloroetà	µg/L	nq.	nq.
bromoclorometà	µg/L	nq.	nq.
dibromometà	µg/L	nq.	nq.
1,2-dibromoetà	µg/L	nq.	nq.
clorobenzè	µg/L	nq.	nq.
SUMA DE THM (*)	µg/L	0,1	1,2
SUMA DE TCE I PER	µg/L	0,1	2,6
Metil-tert-butil èter (MTBE)	µg/L	---	---
Etil-tert-butil èter (ETBE)	µg/L	---	---
Benzè	µg/L	---	---
Toluè	µg/L	---	---
Etilbenzè	µg/L	---	---
m+p-xilè	µg/L	---	---
o-xilè	µg/L	---	---

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DETERMINACIONS	Núm. Mostra	178170	178489
	Data recollida	04/04/2013	10/02/2025
Benzo-b-fluorantè ^(*)	µg/L	---	---
Benzo-k-fluorantè ^(*)	µg/L	---	---
Benzo-a-pirè ^(*)	µg/L	---	---
Benzo-g,h,i-perilè ^(*)	µg/L	---	---
Indeno-1,2,3-c,d-pirè ^(*)	µg/L	---	---
SUMA DE PAH's ^(*)	µg/L	0,0	0,0
Hexaclorobenzè	µg/L	---	---
gamma-HCH	µg/L	---	---
Alaclor	µg/L	---	---
Heptaclor	µg/L	---	---
Aldrin	µg/L	---	---
beta-Heptaclor-epòxid	µg/L	---	---
alfa-Heptaclor-epòxid	µg/L	---	---
Trans-clordane	µg/L	---	---
Cis-nonaclor	µg/L	---	---
Dieldrin	µg/L	---	---
Endrin	µg/L	---	---
Trans-nonaclor	µg/L	---	---
Metoxiclor	µg/L	---	---
Simazina	µg/L	---	---
Atrazina	µg/L	---	---
Propazina	µg/L	---	---
Terbutilazina	µg/L	---	---
Ametrina	µg/L	---	---
Prometrina	µg/L	---	---
Terbutrina	µg/L	---	---
SUMA d'OCP's + Triazines	µg/L	0,00	0,00

⁽¹⁾ D'acord amb el R.D.3/2023 és un valor de referència.

⁽²⁾ Sortida ETAP / Aigua de la Xarxa

Índex Langelier (LSI) (diferència) : Valors positius indiquen aigua incrustant