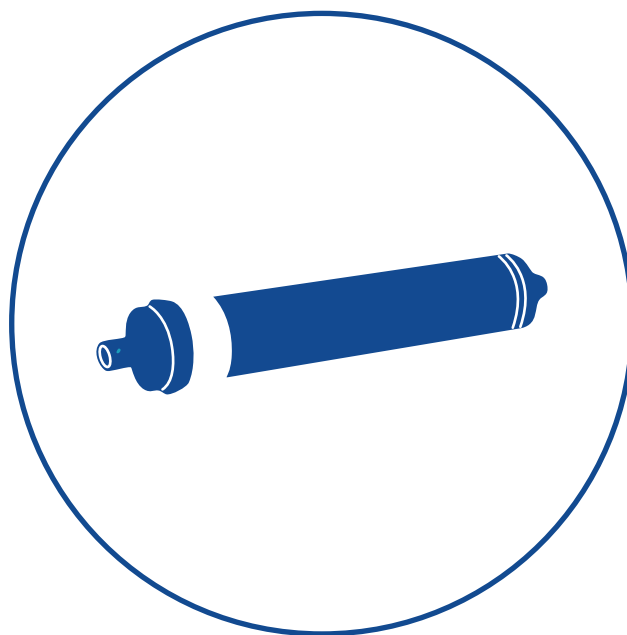




REVERSE OSMOSIS AND ULTRAFILTRATION MEMBRANES

MWG, LG-NanoH₂O, Vontron



[BACK
TO INDEX](#)



MWG Membranes



Ref.	Description	Fam.	Subfam.	Disp. Stock	
MMRO1812-75	MWG 1.8" MEMBRANE RO1812-75	30	151	OK	
MMRO2012-100	MWG 2" MEMBRANE RO2012-100	30	151	OK	
MMRO2012-200	MWG 2" MEMBRANE RO2012-200	30	151	OK	
MMNF2012R	MWG 2" MEMBRANE NF-2012R	30	151	OK	
MMRO3012-300	MWG 3" MEMBRANE RO3012-300	30	156	OK	
MMRO3012-400	MWG 3" MEMBRANE RO3012-400	30	156	OK	
MMRO3013-400	MWG 3" MEMBRANE RO3013-400	30	156	OK	
MMXLP2521	MWG 2.5" MEMBRANE XLP-2521	30	161	OK	
MMXLP2540	MWG 2.5" MEMBRANE XLP-2540	30	161	OK	
MMXLP4021	MWG 4" MEMBRANE XLP-4021	30	162	OK	
MMXLP4040	MWG 4" MEMBRANE XLP-4040	30	162	OK	
MMXLP8040HF	MWG 8" MEMBRANE XLP-8040HF	35	163	OK	
MMULP2521	MWG 2.5" MEMBRANE ULP-2521	30	161	OK	
MMULP2540	MWG 2.5" MEMBRANE ULP-2540	30	161	OK	
MMULP4021	MWG 4" MEMBRANE ULP-4021	30	162	OK	
MMULP4040	MWG 4" MEMBRANE ULP-4040	30	162	OK	
MMULP4040MR2	MWG 4" MEMBRANE ULP4040MR2	30	162	OK	
MMULP8040HF	MWG 8" MEMBRANE ULP-8040HF	35	163	OK	
MMULP8040MR2	MWG 8" MEMBRANE ULP-8040MR-2	35	163	OK	
MMBW2521	MWG 2.5" MEMBRANE BW-2521	30	161	OK	
MMBW2540	MWG 2.5" MEMBRANE BW-2540	30	161	OK	
MMBW4021	MWG 4" MEMBRANE BW-4021	30	162	OK	
MMBW4040	MWG 4" MEMBRANE BW-4040	30	162	OK	
MMBW8040	MWG 8" MEMBRANE BW-8040	35	163	OK	
MMBW8040-2	MWG 8" MEMBRANE BW-8040-2	35	163	OK	
MMBW8040FR	MWG 8" MEMBRANE BW-8040FR	35	163	NO	
MMBW8040XLFR	MWG 8" MEMBRANE BW8040XLFR	35	163	OK	
MMES8040UFR	MWG 8" MEMBRANE ES8040UFR	35	163	OK	
MMSW2521	MWG 2.5" MEMBRANE SW-2521	30	161	OK	
MMSW2540	MWG 2.5" MEMBRANE SW-2540	30	161	OK	
MMSW4021	MWG 4" MEMBRANE SW-4021	30	162	OK	
MMSW4040MR	MWG 4" MEMBRANE SW-4040MR	30	162	OK	
MMSW8040HR	MWG 8" MEMBRANE SW-8040HR	35	163	OK	
MMSW8040HF	MWG 8" MEMBRANE SW-8040HF	35	163	OK	



MWG Membranes

Ref.	Mod.	Permeate flow rate GPD (m³/d)	Rejection NaCl (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MMRO1812-75	TW RO	75 (0,28)	98,0	0,37 (4)	X	1	58
MMRO2012-100	TW RO	100 (0,38)	98,0	0,56 (6)	X	1	58
MMRO2012-200	TW RO	200 (0,76)	97,0	0,75 (8)	X	9	58
MMNF2012R	TW RO	150 (0,57)	85,0	0,59 (6)	X	2	X
MMRO3012-300	TW RO	300 (1,14)	98,0	1,3 (14)	X	1	58
MMRO3012-400	TW RO	400 (1,52)	98,0	1,3 (14)	X	1	58
MMRO3013-400	TW RO	400 (1,5)	98,0	1,5 (16,5)	X	1	X
MMXLP2521	XLP	400 (1,5)	99,2	1,3 (14)	28	3	61
MMXLP2540	XLP	750 (2,8)	99,2	2,5 (27)	28	3	61
MMXLP4021	XLP	950 (3,6)	99,2	3,4 (36)	28	3	61
MMXLP4040	XLP	2.600 (9,8)	99,2	8,4 (90)	28	4	61
MMXLP8040HF	XLP	13.000 (49,2)	99,0	40,9 (440)	28	4	61
MMULP2521	LP	400 (1,52)	99,2	1,3 (14)	28	5	61
MMULP2540	LP	750 (2,8)	99,2	2,5 (27)	28	5	61
MMULP4021	LP	950 (3,6)	99,3	3,4 (36)	28	5	61
MMULP4040	LP	2.700 (10,2)	99,5	9,3 (100)	28	5	61
MMULP4040MR2	LP	2.400 (9,1)	99,6	9,3 (100)	28	5	X
MMULP8040HF	LP	12.500 (47,3)	99,5	40,9 (440)	28	5	61
MMULP8040MR2	LP	10.500 (39,7)	99,6	40,9 (440)	28	5	61
MMBW2521	BW	400 (1,5)	99,5	1,3 (14)	28	6	61
MMBW2540	BW	750 (2,8)	99,5	2,5 (27)	28	6	61
MMBW4021	BW	950 (3,6)	99,5	3,4 (36)	28	6	61
MMBW4040	BW	2.400 (9,1)	99,6	7,9 (85)	28	6	61
MMBW8040	BW	10.500 (39,7)	99,6	37,2 (400)	28	6	61
MMBW8040-2	BW	10.500 (39,7)	99,7	37,2 (400)	28	6	61
MMBW8040FR	FR	9.500 (35,9)	99,7	34 (365)	34	6	61
MMBW8040XLFR	FR	11.500 (43,5)	99,75	37,2 (400)	34	6	X
MMES8040UFR	FR	10.500 (39,7)	99,6	37,2 (400)	34	10	X
MMSW2521	SW	250 (0,9)	99,7	1,3 (14)	28	7	61
MMSW2540	SW	500 (1,9)	99,7	2,5 (27)	28	7	61
MMSW4021	SW	700 (2,6)	99,7	3,4 (36)	28	7	61
MMSW4040MR	SW	1.800 (6,8)	99,7	7,9 (85)	28	7	61
MMSW8040HR	SW	6.500 (24,6)	99,8	37,2 (400)	28	7	61
MMSW8040HF	SW	9.000 (34,1)	99,8	37,2 (400)	28	7	61



MWG Membranes

Test condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	60	25	250	-	7,5-8,0	15
2	60	25	250	250	7,5-8,0	15
3	100	25	500	-	7,5-8,0	8
4	100	25	500	-	7,5-8,0	15
5	150	25	1500	-	7,5-8,0	15
6	225	25	2000	-	7,5-8,0	15
7	800	25	32000	-	7,5-8,0	8
9	80	25	250	-	7,5-8,0	15
10	150	25	2000	-	7,5-8,0	15

TW RO: Residential RO - **XLP:** Extra Low Pressure - **BW:** Brackish Water - **NF:** Nano Filtration - **LP:** Low Pressure - **FR:** Fouling Resistant - **SW:** Sea Water

Certificates	Manufacturer	Sectors
DM174-2004	MWG	Domestic, Commercial, Industrial



LG - NanoH2O Membranes



Ref.	Description	Fam.	Subfam.	Disp. Stock	
MLBW2521ES	2,5" LG NANOH2O MEMBRANE BW 2521 ES	30	153	OK	
MLBW2540ES	2,5" LG NANOH2O MEMBRANE BW 2540 ES	30	153	OK	
MLBW4021ES	4" LG NANOH2O MEMBRANE BW 4021 ES	30	154	OK	
MLBW4040ES	4" LG NANOH2O MEMBRANE BW 4040 ES	30	154	OK	
MLBW8-400ESL	8" LG NANOH2O MEMBRANE BW 400 ESL	35	168	OK	
MLBW8-440ESL	8" LG NANOH2O MEMBRANE BW 440 ESL	35	168	OK	
MLBW2521R	2,5" LG NANOH2O MEMBRANE BW 2521 R	30	153	OK	
MLBW2540R	2,5" LG NANOH2O MEMBRANE BW 2540 R	30	153	OK	
MLBW4021R	4" LG NANOH2O MEMBRANE BW 4021 R	30	154	OK	
MLBW4040R	4" LG NANOH2O MEMBRANE BW 4040 R	30	154	OK	
MLBW8-400RG2	8" LG NANOH2O MEMBRANE BW 400 R G2	35	168	OK	
MLBW8-440RG2	8" LG NANOH2O MEMBRANE BW 440 R G2	35	168	OK	
MLBW8-440RDURA	8" LG NANOH2O MEMBRANE BW 440 R DURA	35	168	OK	
MLBW8-MAXROR	8" LG NANOH2O MEMBRANE MAX RO R	35	168	OK	
MLBW2521UES	2,5" LG NANOH2O MEMBRANE BW 2521 UES	30	153	OK	
MLBW2540UES	2,5" LG NANOH2O MEMBRANE BW 2540 UES	30	153	OK	
MLBW4021UES	4" LG NANOH2O MEMBRANE BW 4021 UES	30	154	OK	
MLBW4040UES	4" LG NANOH2O MEMBRANE BW 4040 UES	30	154	OK	
MLLP8-MOST	8" LG NANOH2O MEMBRANE MOST	35	168	OK	
MLLP8-MOST+	8" LG NANOH2O MEMBRANE MOST+	35	168	OK	
MLBW8-400RDURA	8" LG NANOH2O MEMBRANE BW 400 R DURA	35	168	OK	
MLBW8-400AFRG2	8" LG NANOH2O MEMBRANE BW 400 AFR G2	35	168	OK	
MLSW4040R	4" LG NANOH2O MEMBRANE SW 4040 R	30	154	OK	
MLSW8-400ES	8" LG NANOH2O MEMBRANE SW 400 ES	35	168	OK	
MLSW8-440ES	8" LG NANOH2O MEMBRANE SW 440 ES	35	168	OK	
MLSW8-400GR	8" LG NANOH2O MEMBRANE SW 400 GR	35	168	OK	
MLSW8-440GR	8" LG NANOH2O MEMBRANE SW 440 GR	35	168	OK	
MLSW8-400R	8" LG NANOH2O MEMBRANE SW 400 R	35	168	OK	
MLSW8-440R	8" LG NANOH2O MEMBRANE SW 440 R	35	168	OK	
MLSW8-400SR	8" LG NANOH2O MEMBRANE SW 440 SR	35	168	OK	
MLSW8-440SR	8" LG NANOH2O MEMBRANE SW 440 SR	35	168	OK	
MLNF8-9	8" LG NANOH2O MEMBRANE NF9	35	168	OK	



LG - NanoH2O Membranes

Ref.	Mod.	Permeate flow rate GPD (m³/d)	Rejection NaCl rate (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MLBW2521ES	BW	345 (1,3)	99,5	0,9 (9)	28	5	61
MLBW2540ES	BW	750 (2,8)	99,5	2,0 (22)	28	5	61
MLBW4021ES	BW	1000 (3,8)	99,5	3,2 (34)	28	5	61
MLBW4040ES	BW	2500 (9,5)	99,5	7,9 (85)	28	5	61
MLBW8-400ESL	BW	10500 (39,7)	99,5	37 (400)	34	5	61
MLBW8-440ESL	BW	11500 (43,5)	99,6	41 (440)	28	5	61
MLBW2521R	BW	345 (1,3)	99,6	0,9 (9)	28	1	61
MLBW2540R	BW	750 (2,8)	99,6	2,0 (22)	28	1	61
MLBW4021R	BW	1000 (3,8)	99,6	3,2 (34)	28	1	61
MLBW4040R	BW	2500 (9,5)	99,6	7,9 (85)	28	1	61
MLBW8-400RG2	BW	11500 (43,5)	99,8	37 (400)	34 low dP	1	61
MLBW8-440RG2	BW	12650 (47,9)	99,8	41 (440)	28	1	61
MLBW8-440RDURA	BW	12100 (45,8)	99,7	41 (440)	28	1	61
MLBW8-MAXROR	BW	11500 (43,5)	99,8	37 (400)	36 ULD	1	61
MLBW2521UES	LP	345 (1,3)	99,0	0,9 (9)	28	3	61
MLBW2540UES	LP	800 (3,0)	99,0	2,0 (22)	28	3	61
MLBW4021UES	LP	1000 (3,8)	99,0	3,2 (34)	28	3	61
MLBW4040UES	LP	2700 (10,2)	99,0	7,9 (85)	28	3	61
MLLP8-MOST	LP	13000 (49,2)	99,1	37 (400)	34 low dP	3	61
MLLP8-MOST+	LP	14300 (54,1)	99,1	41 (440)	28 low dP	3	61
MLBW8-400RDURA	FR	11000 (41,6)	99,7	37 (400)	34 low dP	1	61
MLBW8-400AFRG2	FR	11500 (43,5)	99,7	37 (400)	34 low dP	1	61
MLSW4040R	SW	1950 (7,4)	99,7	7,4 (80)	28	4	61
MLSW8-400ES	SW	13700 (51,9)	99,6	37 (400)	34 low dP	4	61
MLSW8-440ES	SW	15070 (57,0)	99,8	41 (440)	28 low dP	4	61
MLSW8-400GR	SW	7500 (28,4)	99,85	37 (400)	34	4	61
MLSW8-440GR	SW	8250 (31,2)	99,85	41 (440)	28	4	61
MLSW8-400R	SW	9000 (34,1)	99,85	37 (400)	34	4	61
MLSW8-440R	SW	9900 (37,5)	99,85	41 (440)	28	4	61
MLSW8-400SR	SW	6000 (22,7)	99,85	37 (400)	34	4	61
MLSW8-440SR	SW	6600 (25,0)	99,85	41 (440)	28	4	61
MLNF8-9	NF	10000 (38)	99,80	37 (400)	34 low dP	6	61

Test Condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl Solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	225	25	2000	-	7	15 (8% for type 2521 and 4021)
3	100	25	500	-	7	15 (8% for type 2521 and 4021)
4	800	25	32000	-	7	8
5	150	25	2000	-	7	15 (8% for type 2521 and 4021)
6	70	25	-	2000	7	15

BW: Brackish Water - LP: Low Pressure - SW: Sea Water - FR: Fouling Resistant NF: Nano Filtration

Certificates	Manufacturer	Sectors
NSF61, DM174-2004	LG-NanoH2O	Commercial, Industrial



Vontron Membranes



Ref.	Description	Fam.	Subfam.	Disp. Stock	
MVULP1812-50	VONTRON 1.8" MEMBRANE ULP1812-50	30	152	OK	
MVULP1812-75	VONTRON 1.8" MEMBRANE ULP1812-75	30	152	OK	
MVULP2012-100	VONTRON 2" MEMBRANE ULP2012-100	30	152	OK	
MVULP2012-200	VONTRON 2" MEMBRANE ULP2012-200	30	152	OK	
MVULP3012	VONTRON 3" MEMBRANE ULP3012-300	30	157	OK	
MVULP3012-800	VONTRON 3" MEMBRANE ULP3012-800	30	157	OK	
MVULP3013-1000	VONTRON 3" MEMBRANE ULP3013-1000	30	157	OK	
MVXLP11-4040	VONTRON 4" MEMBRANE XLP11-4040	30	166	OK	
MVULP21-2521	VONTRON 2.5" MEMBRANE ULP21-2521	30	159	OK	
MVULP21-2540	VONTRON 2.5" MEMBRANE ULP21-2540	30	159	OK	
MVULP21-4021	VONTRON 4" MEMBRANE ULP21-4021	30	166	OK	
MVULP21-4040	VONTRON 4" MEMBRANE ULP21-4040	30	166	OK	
MVULP31-4040	VONTRON 4" MEMBRANE ULP31-4040	30	166	OK	
MVULP22-8040	VONTRON 8" MEMBRANE ULP22-8040	35	167	OK	
MVULP32-8040	VONTRON 8" MEMBRANE ULP32-8040	35	167	OK	
MVLP21-2540	VONTRON 2.5" MEMBRANE LP21-2540	30	159	OK	
MVLP21-4040	VONTRON 4" MEMBRANE LP21-4040	30	166	OK	
MVLP22-8040	VONTRON 8" MEMBRANE LP22-8040	35	167	OK	
MVSW11-4021	VONTRON 4" MEMBRANE SW11-4021	30	166	OK	
MVSW8040LE-440	VONTRON 8" MEMBRANE SW8040LE-440	35	167	NO	
MVSW8040XLE-440	VONTRON 8" MEMBRANE SW8040XLE-440	35	167	NO	

Ref.	Mod.	Permeate flow rate GPD (m³/d)	Rejection NaCl rate (%)	Effective area m2 (ft2)	Spacer (mil)	Test	NSF
MVULP1812-50	TW RO	50 (0,19)	99,0	X X	X	1	58
MVULP1812-75	TW RO	75 (0,28)	98,0	X X	X	1	58
MVULP2012-100	TW RO	100 (0,38)	99,0	X X	X	1	58
MVULP2012-200	TW RO	200 (0,76)	97,0	X X	X	12	58
MVULP3012	TW RO	300 (1,14)	98,5	X X	X	3	58
MVULP3012-800	TW RO	800 (3,02)	97,0	X X	X	13	58
MVULP3013-1000	TW RO	1000 (3,8)	90,0	X X	X	12	X
MVXLP11-4040	XLP RO	2.600 (9,8)	99,2	9,3 (100)	28	3	61
MVULP21-2521	LP	300 (1,1)	99,0	1,3 (14)	28	4	61
MVULP21-2540	LP	750 (2,84)	99,0	2,8 (30)	28	4	61
MVULP21-4021	LP	950 (3,6)	99,0	3,3 (36)	28	4	61
MVULP21-4040	LP	2.600 (9,8)	99,5	9,3 (100)	28	5	61
MVULP31-4040	LP	2.000 (7,6)	99,6	9,3 (100)	28	5	61
MVULP22-8040	LP	12.100 (45,7)	99,0	37,2 (400)	28	5	61
MVULP32-8040	LP	10.500 (39,7)	99,5	37,2 (400)	28	5	61
MVLP21-2540	BW	750 (2,8)	99,4	2,8 (30)	28	7	61
MVLP21-4040	BW	2.800 (10,6)	99,6	9,3 (100)	28	7	61
MVLP22-8040	BW	10.500 (39,7)	99,7	37,2 (400)	28	7	61
MVSW11-4021	SW	750 (2,8)	99,5	3,1 (33)	28	9	61
MVSW8040LE-440	SW	9500 (35,9)	99,8	40,9 (440)	28	10	61
MVSW8040XLE-440	SW	12.100 (45,8)	99,7	40,9 (440)	28	10	61



Vontron Membranes

Test Condition	Pressure (psi)	Temperature of solution NaCl (°C)	Concentration of NaCl Solution (ppm)	Concentration of MgSO4 solution (ppm)	pH	Recovery rate (%)
1	60	25	250	-	6,5-8,5	15
3	100	25	500	-	7,5	15
4	150	25	1500	-	7,5	8
5	150	25	1500	-	7,5	15
7	225	25	2000	-	7,5	15
9	800	25	32000	-	7,5	4
10	800	25	32000	-	7,5	8
12	100	25	50	-	7,5	50
13	100	25	250	-	6,5-8,5	50

TW RO: Residential RO - **XLP RO:** Extra Low Pressure - **BW:** Brackish Water - **SW:** Sea Water - **TW NF:** Industrial NF - **LP:** Low Pressure - **FR:** Sea Water - **NF:** Nano Filtration

Certificates	Manufacturer	Sectors
DM174-2004 mod. 2521, 2540, 4021, 4040, 8040	Vontron	Domestic, Commercial, Industrial



Antiscaling for R. O. Membranes Permascale Eut 110



- PERMASCALE EUT110 is a product that prevents scales and iron sediment on R.O. membranes systems;
- For industrial systems and for potable water treatment systems;
- Very effective on various kinds of water, minimize the fouling and reduce the frequency of membranes cleaning;
- Particularly suitable for big plants with permeate flows higher than 100 m3/day;
- Compatible with all kinds of membranes;
- Replace totally or partially the acidification;
- Easy to use due to the liquid form.

Use

- Injection by dosing pump of pure or diluted product.
- The dosage is according to the concentration of scaling salts and iron, and can vary from 2 to 10 cm3/m3 of feed water

Instructions and Packaging

- Handling: following safety data sheet. Take the normal precautions to handle chemical products.
- Packaging: 20 kg drum.
- Storage: closed on the original packaging, sheltered from cold and heat.

Characteristics:	
Formulation	special phosphonated
pH	7,8 ± 0,5
Appearance	light yellow liquid
Density a 20°C	1,30 ± 0,05 g/ml
Checking	phosphonated value
Solubility in water	complete

Ref	Description	Fam.	Subfa m.	Disp. Stock	
EA100	MWG PERMASCALE EUT 110 - DRUM 20 KG	35	191	OK	

Certificates	Manufacturer	Sectors
	MWG	Commercial, Industrial



Antiscaling for R.O. Membranes Permascale EUT 120

- PERMASCALE EUT120 is a product that prevents scales and iron sediment on R.O. membranes systems;
- Very effective on various kinds of water, minimize the fouling and reduce the frequency of membranes cleaning;
- Particularly suitable for plants with permeate flows lower than 100 m3/day;
- Compatible with all kinds of membranes;
- Replace totally or partially the acidification;
- Easy to use due to the liquid form.

Use

- Injection by dosing pump of pure or diluted product:
- The dosage is according to the concentration of scaling salts and iron, and can vary from 3 to 13 cm3/m3 of feed water.

Instructions and packaging

- Handling: following safety data sheet. Take the normal precautions to handle chemical products.
- Packaging: 20 kg drum.
- Storage: closed on the original packaging, sheltered from cold and heat.

Characteristics	
Formulation	special phosphonated
pH	7,5 ± 0,5
Appearance	light yellow liquid
Density a 20°C	1,30 ± 0,02 g/ml
Checking	phosphonated value
Solubility in water	complete

Ref	Description	Fam.	Subfa m.	Disp. Stock	
EA101	MWG PERMASCALE EUT 120 - DRUM 20 KG	35	191	OK	

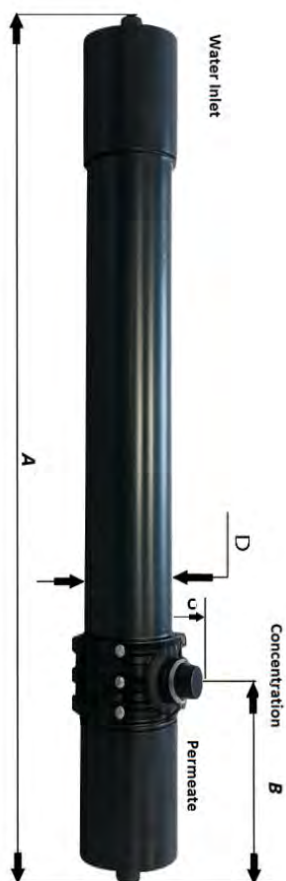
Box: WxLxH	Box: Q.ty	Box: Weight	Pallet: WxLxH	Pallet: Q.ty	Pallet: Weight

Certificates	Manufacturer	Sectors
	MWG	Commercial, Industrial





UF10 and UF20 MWG Ultrafiltration Modules



- Hollow Fiber UF membranes in PVDF;
- Nominal MWCO, Dextrane < 150.000 Dalton;
- Outside to inside flow direction;
- Fiber Outside / Inside diameter 1,4/0,8 mm;
- Hollow fiber membranes in PVDF with a long lifetime, high mechanical strength and chemical
- High permeability and 30 nm nominal pore diameter;
- They remove viruses, bacteria and particles, including colloids;
- Produced water quality is < 0,2 NTU;
- Body and cap in U-PVC;
- Nozzles DN25;
- Dead end/ Crossflow Operation mode;
- Operation parameters: Temperature 1-40°C; pH 2-11;
- Filtrate flux @25°C : 45-180 l/m² h;
- Filtration capacity MMUF10 = 0.45-1.8 m³/h; MMUF20= 0.90-3.60 m³/h;
- Feed water inlet pressure 25°C 2-3 bar (instant max 5); TMP 0,4-2 bar;
- Filtrate Water SDI < 2,5;
- Filtrate Water Turbidity NTU < 0,2.

Ref.	Description	Fam.	Subfa m.	Disp. Stock	
MMUF10N	MWG MODULE ULTRAFILTRATION N 10 M2	35	188	OK	
MMUF20N	MWG MODULE ULTRAFILTRATION N 20 M2	35	188	OK	

Ref.	Active Surface (m ²)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	Flow Capacity (m ³ /h)
MMUF10N	10	1086	190	50	110	10	0,45 - 1,80
MMUF20N	20	1110	230	50	140	18	0,90 - 3,60

Feed water Specifications

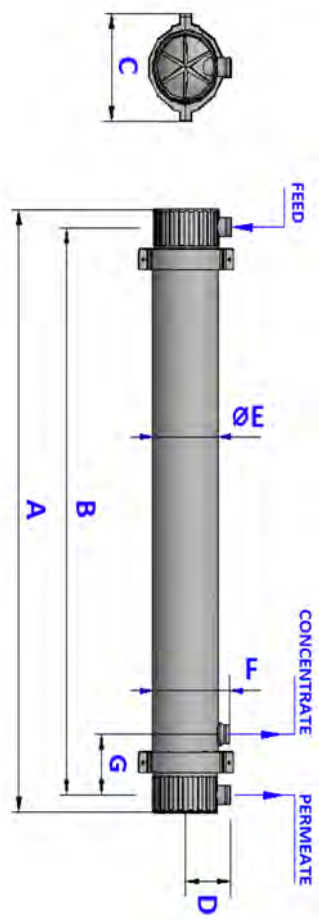
Parameter	Unit	Specification
Temperature	° C	25 (max 40)
Particle dimension	micron	<300
Turbidity	NTU	50 (max 250)
Oil and grease	mg/l	0 (max 1)
pH	-	6-9
Total Organic Carbon (TOC)	mg/l	<10 (max 30)
Total Suspended Solids (TSS)	mg/l	50 (max 80)
Chlorine	mg/l	0,4 (instant max 150)

Cleaning, Disinfection and Preservative Solution	
Cleaning	
Backwash Pressure	max 2,5 bar
Air Flow Rate	max 20 Nm ³ /h
Air Pressure	600 - 800 mbar
Chemically Enhanced Backwash (CEB)	
Sodium Hypochlorite (NaOCl)	1000 mg/l
Sodium Hydroxide (NaOH)	500 mg/l
Hydrochloric Acid (HCl)	1000 mg/l
Citric Acid	1 - 2 %
Clean-in-Place (CIP)	
Frequency	Current Process TMP (bar) ≥ Initial TMP (bar) + 0,9 bar
Operation Duration	2 hours
Chemical Cleaning Solutions (depend on pollutant)	0,1 % NaOH + 0,2 % NaOCl - 0,2 % HCl + 0,2 % Citric Acid
Cleaning Flow Rate per Module	1 - 2 m ³ /h

Certificates	Manufacturer	Sectors
	MWG	Industrial



UF80 MWG Ultrafiltration Modules



- Hollow Fiber UF membranes in PVDF;
- Nominal MWCO, Dextrane < 150.000 Dalton;
- Outside to inside flow direction;
- Fiber Outside / Inside diameter 1,4/0,8 mm;
- Hollow fiber membranes in PVDF with a long lifetime, high mechanical strength and chemical
- High permeability and 30 nm nominal pore diameter;
- They remove viruses, bacteria and particles, including colloids;
- Produced water quality is < 0,2 NTU;
- Body and cap in U-PVC;
- DN50 grooved-end nozzles;
- Dead end/ Crossflow Operation mode;
- Operation parameters: Temperature 1-40°C; pH 2-11;
- Filtrate flux @25°C : 45-180 l/m² h;
- Filtration capacity 3,6-14,4 m³/h;
- Feed water inlet pressure 25°C 2-3 bar (instant max 5); TMP 0,4-2 bar;
- Filtrate Water SDI < 2,5;
- Filtrate Water Turbidity NTU < 0,2.

Ref.	Description	Fam.	Subfa m.	Disp. Stock	
MMUF80	MWG MODULE ULTRAFILTRATION 80 M2	35	188	NO	

Ref.	Active Surface (m2)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)
MMUF80	80	2038	1917	360	172	289	205

Feed water Specifications

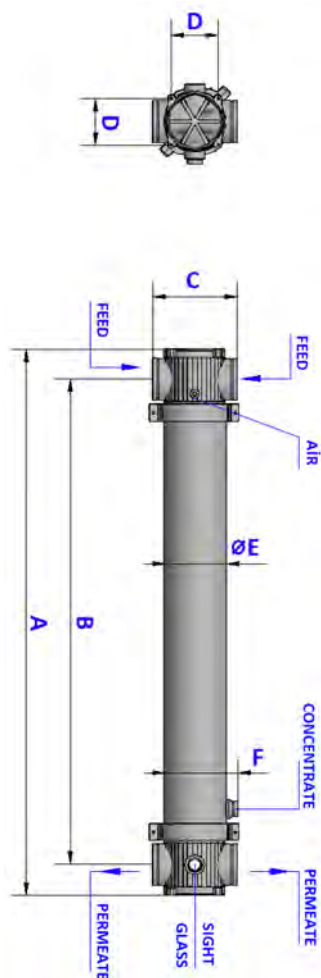
Parameter	Unit	Specification
Temperature	° C	25 (max 40)
Particle dimension	micron	<300
Turbidity	NTU	50 (max 250)
Oil and grease	mg/l	0 (max 1)
pH	-	6-9
Total Organic Carbon (TOC)	mg/l	<10 (max 30)
Total Suspended Solids (TSS)	mg/l	50 (max 80)
Chlorine	mg/l	0,4 (instant max 150)

Cleaning, Disinfection and Preservative Solution	
Cleaning	
Backwash Pressure	max 2,5 bar
Air Flow Rate	max 20 Nm ³ /h
Air Pressure	600 - 800 mbar
Chemically Enhanced Backwash (CEB)	
Sodium Hypochlorite (NaOCl)	1000 mg/l
Sodium Hydroxide (NaOH)	500 mg/l
Hydrochloric Acid (HCl)	1000 mg/l
Citric Acid	1 - 2 %
Clean-in-Place (CIP)	
Frequency	Current Process TMP (bar) ≥ Initial TMP (bar) + 0,9 bar
Operation Duration	2 hours
Chemical Cleaning Solutions (depend on pollutant)	0,1 % NaOH + 0,2 % NaOCl 0,2 % HCl + 0,2 % Citric Acid
Cleaning Flow Rate per Module	1 - 2 m ³ /h

Certificates	Manufacturer	Sectors
	MWG	Industrial



UF80T MWG Ultrafiltration Modules



- Hollow Fiber UF membranes in PVDF;
- Nominal MWCO, Dextrane < 150.000 Dalton;
- Outside to inside flow direction;
- Fiber Outside / Inside diameter 1,4/0,8 mm;
- Hollow fiber membranes in PVDF with a long lifetime, high mechanical strength and chemical
- High permeability and 30 nm nominal pore diameter;
- They remove viruses, bacteria and particles, including colloids;
- Produced water quality is < 0,2 NTU;
- Body and cap in U-PVC;
- DN50 grooved-end concentrate nozzles; DN150 grooved-end feed and permeate nozzles; NPT 3/8" straight union connection air inlet nozzle;
- Dead end/ Crossflow Operation mode;
- Operation parameters: Temperature 1-40°C; pH 2-11;
- Filtrate flux @25°C : 45-180 l/m² h;
- Filtration capacity 3,6-14,4 m³/h;
- Feed water inlet pressure 25°C 2-3 bar (instant max 5); TMP 0,4-2 bar;
- Filtrate Water SDI < 2,5;
- Filtrate Water Turbidity NTU < 0,2.

Ref.	Description	Fam.	Subfam.	Disp. Stock	
MMUF80T	MWG MODULE ULTRAFILTRATION 80 M2 T	35	188	NO	

Ref.	Active Surface (m ²)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
MMUF80T	80	2216	1968	344	190	250	289

Feed water Specifications

Parameter	Unit	Specification
Temperature	° C	25 (max 40)
Particle dimension	micron	<300
Turbidity	NTU	50 (max 250)
Oil and grease	mg/l	0 (max 1)
pH	-	6-9
Total Organic Carbon (TOC)	mg/l	<10 (max 30)
Total Suspended Solids (TSS)	mg/l	50 (max 80)
Chlorine	mg/l	0,4 (instant max 150)

Cleaning, Disinfection and Preservative Solution	
Cleaning	
Backwash Pressure	max 2,5 bar
Air Flow Rate	max 20 Nm ³ /h
Air Pressure	600 - 800 mbar
Chemically Enhanced Backwash (CEB)	
Sodium Hypochlorite (NaOCl)	1000 mg/l
Sodium Hydroxide (NaOH)	500 mg/l
Hydrochloric Acid (HCl)	1000 mg/l
Citric Acid	1 - 2 %
Clean-in-Place (CIP)	
Frequency	Current Process TMP (bar) ≥ Initial TMP (bar) + 0,9 bar
Operation Duration	2 hours
Chemical Cleaning Solutions (depend on pollutant)	0,1 % NaOH + 0,2 % NaOCl 0,2 % HCl + 0,2 % Citric Acid
Cleaning Flow Rate per Module	1 - 2 m ³ /h

Certificates	Manufacturer	Sectors
	MWG	Industrial