

Residential R.O. components





RESIDENTIAL

RO elements for residential use (1.8 inch diameter)

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection %
RE1810-30	30 (114)	98.0%
RE1810-50	50 (189)	98.0%
RE1812-35	35 (132)	98.0%
RE1812-50	50 (189)	98.0%
RE1812-60	60 (227)	98.0%
RE1812-80	80 (303)	98.0%

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

+ 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure

+ 15% recovery

• 77 °F (25 °C) + pH 6.5-7.0

2. Dry type elements are vacuum leak tested using the San Diego Protocol.

3. Permeate flow rate for each element may vary but will be no more than 15%.

4. Dry elements are packaged in a polyethylene bag

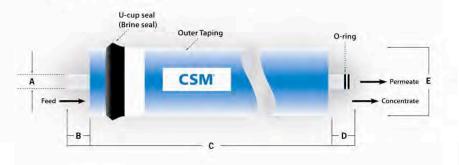
Wet elements are packaged in a polyethylene bag containing SB(4g/L) + HCl(0.51g/L) solution.

Membrane type: Membrane material: **Element configuration:** Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	A	В	с	D	E
RE1810-30	0.67	0.55	10.08	0.98	1.77
RE1810-50	(17mm)	(14mm)	(256mm)	(25mm)	(45mm)
RE1812-35	12.5				
RE1812-50	0.67	0.87	11.73	0.98	1.77
RE1812-60	(17mm)	(22mm)	(298mm)	(25mm)	(45mm)
RE1812-80					

*All measurement are in inches





1,8" Residential CSM Membranes



CSM



These model names are tested and certified under NSF/ANSI standard 58, material requirement only (excluding RE1810-30)

RESIDENTIAL

RO elements for residential use (1.8 inch diameter)

APPLICATION DATA:

Operating Limits	 Max. Operating Pressure 	125 psi (0.86 MPa)
	 Max. Feed Flow Rate 	2 gpm (0.45 m³/hr)
	 Max. Operating Temperature 	II3 ∘F (45 ∘C)
	 Operating pH Range 	2.0-11.0
	· Max.Turbidity	I.0 NTU
	· Max. SDI (15 min)	5.0
	Max. Chlorine Concentration	< 0.1 mg/L

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
	RE1810-30	
	RE1812-35	
MCRE1812-50	RE1812-50	
MCRE1812-60	RE1812-60	
MCRE1812-80	RE1812-80	

EUROTR WATER TREATMENT COMPONENTS





RESIDENTIAL

CSM

High recovery & High rejection RO element for residential use

SPECIFICATIONS:

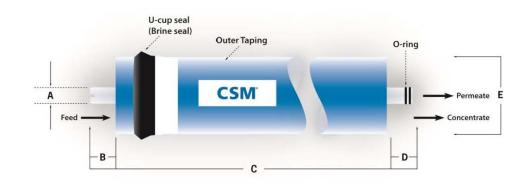
General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection (%)	Pressure / Recovery
RE1812-HR+	80 (302.8)	99.0 (min. 97.5)	60psig / 30%
RE1012-HK+	105 (397.5)	96.0 (min. 95.0)	80psig / 60%

- 1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:
 - 200 mg/L NaCl solution , 77 °F (25 °C), pH 6.5-7.0
- 2. All elements are vacuum leak tested using the CSM integrity test.
- 3. Permeate flow rate for each element may vary +15/ -15%.
- 4. Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions	Model Name	А	В	c	D	E
20	RE1812-HR+	0.67 inch (17mm)	0.87 inch (22 mm)	11.73 inch (298 mm)	0.87 inch (22 mm)	1.77 inch (1 5 mm)







RESIDENTIAL

High recovery & High rejection RO element for residential use

APPLICATION DATA:

Operating Limits	 Max. Operating Pressure 	150 psi (1.03 MPa)
	 Max. Feed Flow Rate 	2 gpm (0.45 m³/hr)
	Max. Operating Temperature	II3 ∘F (45 ∘C)
	· Operating pH Range	2.0-11.0
	• Max. Turbidity	I.0 NTU
	 Max. SDI (15 min) 	3.0
	 Max. Chlorine Concentration 	< 0.1 mg/L

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.
- · Keep elements moistly at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty. For additional information on use of approved chemicals please contact your nearest CSM representative.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCRE1812-HR+	RE1812-HR+	



RESIDENTIAL

RO elements for residential use (2.0 and 2.8 inch diameters)

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection (%)
RE2012-100	100 (397)	98.0
RE2812-300	300 (1,136)	96.0

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

• 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure

- · 15% recovery
- 77 °F (25 °C)
- pH 6.5-7.0

2. Minimum salt rejection is 96.0%.

- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. Wet elements are packaged in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	Α	В	c III	D	E
RE2012-100	0.67	0.5	11.7	0.9	1.9
	(17)	(12)	(298)	(23)	(48)
RE2812-300	0.67	0.9	11.7	0.9	2.9
	(17)	(22)	(298)	(22)	(74)

*All measurements are in inches (millimeters)





CSM



RESIDENTIAL

RO elements for residential use (2.0 and 2.8 inch diameters)

APPLICATION DATA:

Operating	Limits
operating	Lilling

Max. Operating Pressure
Max. Feed Flow Rate
Max. Operating Temperature
Max. Operating PH Range
Operating pH Range
Max. Turbidity
Max. SDI (15 min)
Max. Chlorine Concentration
I25 psi (0.86 MPa)
2 gpm (0.45 m³/hr)
I13 °F (45 °C)
I13 °F (45 °C)
I10 NTU
S.0
Max. Chlorine Concentration

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent

biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.

- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCRE2012-100	RE2012-100	
MCRE2812-300	RE2812-300	

2" Residential CSM Membranes



SPECIFICATIONS:

General Features

Model Name	Active Membrane	Permeate Flow Rate	Salt Rejection
	Area ft ² (m ²)	GPD (L/day)	(%)
RE2012-150	6.4 (0.59)	150 (567.8)	98.0

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

* 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure

- 15% recovery
- 77 °F (25 °C)
- pH 6.5–7.0
- 2. Minimum salt rejection is 96.0%.
- 3. Dry type elements are vacuum leak tested using the CSM integrity test.
- 4. Permeate flow rate for each element may vary but will be no more than 15%.
- 5. Dry elements are packaged in a polyethylene bag.

Membrane type:Thin-Film CompositeMembrane material:Polyamide (PA)Element configuration:Spiral-Wound, Tape Wrapping

Model Name	A	В	с	D	E
RE2012-150	0.67	0.5	11.7	0.9	1.9
	(17)	(12)	(298)	(23)	(48)

*All measurements are in inches (millimeters).





Dimensions

2" Residential CSM Membranes



CSM

RESIDENTIAL

High flux RO elements for residential use

APPLICATION DATA:

Operating Limits

 Max. Operating Pre 	ssure I 50 psi (I.03 MPa)
 Max. Feed Flow Rat 	e 2 gpm (0.45 m³/hr)
 Max. Operating Terr 	nperature II3 °F (45 °C)
 Operating pH Rang 	e 2.0–11.0
• Max. Turbidity	I.0 NTU
 Max. SDI (15 min) 	5.0
 Max. Chlorine Cond 	centration < 0.1 mg/L

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7-32°C; 40-95°F) and should not be stored in direct sunlight.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e.

one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.

- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty. For additional information on use of approved chemicals please contact your nearest CSM representative.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCRE2012-150	RE2012-150	





SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection (%)	Pressure / Recovery
RE2012-400	400 (1514)	96.0 (min. 95.0)	80psig / 30%

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

- 200 mg/L NaCl solution , 77 °F (25 °C), pH 6.5-7.0
- 2. Wet type elements are vacuum leak tested using the CSM integrity test.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. Wet elements are packaged in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution.

Membrane type: Membrane material: Element configuration:

Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	A	В	с	D	E
RE2012-400	0.67	0.5	11.73	0.91	1.89
	(17mm)	(12mm)	(298mm)	(23mm)	(1 8mm)

*All measurements are in inches (millimeters).







RESIDENTIAL

High recovery & High rejection RO element for residential use

APPLICATION DATA:

Operating Limits	• Max. Operating Pressure	150 psi (1.03 MPa)
	· Max. Feed Flow Rate	2 gpm (0.45 m ³ /hr)
	Max. Operating Temperature	113 °F (45 °C)
	Operating pH Range	2.0-11.0
	• Max. Turbidity	I.0 NTU
	Max. SDI (15 min)	3.0
	• Max. Chlorine Concentration	< 0.1 mg/L

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.
- Keep elements moistly at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty. For additional information on use of approved chemicals please contact your nearest CSM representative.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCRE2012-400	RE2012-400	





RESIDENTIAL

Low pressure grade RO elements for residential use

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection %
RE2010-LP	30 (114)	93.0%
RE2012-LP	50 (189)	93.0%
RE2012-LPF	60 (227)	93.0%

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

+ 100 mg/L NaCl solution at 20 psig (0.14 MPa) applied pressure

- I5% recovery
- 77 °F (25 °C)
- pH 6.5–7.0

2. Dry type elements are vacuum leak tested using the San Diego Protocol.

- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. Dry elements are packaged in a polyethylene bag

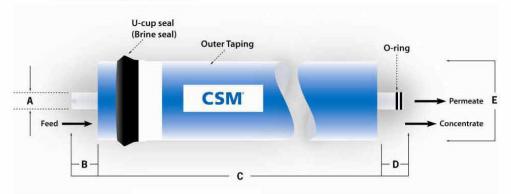
^m Wet elements are packaged in a polyethylene bag containing SB(4g/L) + HCI(0.5 Ig/L) solution.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	A	В	С	D	E
RE2010-LP	0.67	0.55	10.08	0.98	1.91
RE2012-LP	0.67	0.47	11.73	0.91	1.91
RE2012-LPF	0.67	0.47	11.73	0.91	1.91

*All measurement are in inches







RESIDENTIAL

Low pressure grade RO elements for residential use

APPLICATION DATA:

Operating Limits	 Max. Operating Pressure 	125 psi (0.86 MPa)
	 Max. Feed Flow Rate 	2 gpm (0.45 m ³ /hr)
	 Max. Operating Temperature 	II3 ∘F (45 ∘C)
	 Operating pH Range 	2.0-11.0
	 Max.Turbidity 	I.0 NTU
	· Max. SDI (15 min)	5.0
	 Max. Chlorine Concentration 	< 0.1 mg/L

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
	RE2010-LP	
MCRE2012-LP	RE2012-LP	
MCRE2012-LPF	RE2012-LPF	



RESIDENTIAL RO elements for residential use

SPECIFICATIONS:

General	
Features	

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection (%)
RE3012-500	500 (1,893)	97.0

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

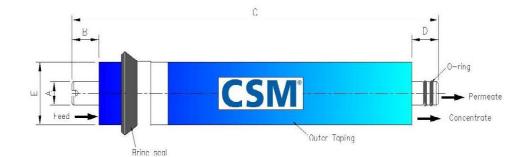
- 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure
- 40% recovery
- 77 °F (25 °C)
- pH 6.5–7.0 ´
- 2. Minimum salt rejection is 95.0%.
- 3. Dry type elements are vacuum leak tested using the CSM integrity test.
- 4. Permeate flows for warranty evaluation may vary +25/-15%.
- 5. Dry elements are packaged in a polyethylene bag
 - ¤ Wet elements are packaged in a polyethylene bag containing storage solution.

Membrane type:	Thin-Film Com	posite
Membrane material:	Polyamide (PA)	
Element configuration:	Spiral-Wound,	Tape Wrapping

Di	men	sior	15
Di	men	sior	15

Model Name	A	В	с	D	Ē
	0.67	0.39	11.7	0.79	2.95
RE3012-500	(17)	(10)	(298)	(20)	(75)

*All measurement are in inches(millimeters)





3" Residential CSM Membranes



CSM

RESIDENTIAL RO elements for residential use

APPLICATION DATA:

Operating LimitsMax. Operating Pressure150 psi (1.03 MPa)Max. Feed Flow Rate2 gpm (0.45 m³/hr)Max. Operating Temperature113 °F (45 °C)Operating pH Range2.0–11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0Max. Chlorine Concentration< 0.1 mg/L</td>

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag of wet element is damaged, a new preservative solution must be added and air-tight sealed to prevent drying and biological growth.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent

biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.

- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL	
MCRE3012-500	RE3012-500	





RESIDENTIAL



Tankless RO elements for residential use

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection (%)
RE3512-TK	600 (2,271)	95.0

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

• 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure

- 30% recovery
- 77 °F (25 °C)
- pH 6.5–7.0

2. Minimum salt rejection is 93.0%.

- 3. Dry type elements are vacuum leak tested using the CSM integrity test.
- 4. Permeate flow rate for each element may vary but will be no more than 15%.
- 5. Dry elements are packaged in a polyethylene bag.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	А	В	С	D	ш
RE3512-TK	0.67	0.3 I	11.73	0.63	3.35
	(17)	(8)	(298)	(16)	(85)

*All measurements are in inches (millimeters).



EUROTR



Residential CSM Membranes



CSM

RESIDENTIAL

Tankless RO elements for residential use

APPLICATION DATA:

Operating Limits

Max. Operating Pressure
Max. Feed Flow Rate
Max. Operating Temperature
Max. Operating Temperature
Operating pH Range
Max. Turbidity
Max. SDI (15 min)
Max. Chlorine Concentration
S0 (1.03 MPa)
S0 (0.1 mg/L)

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7-32°C; 40-95°F) and should not be stored in direct sunlight.
- When running the system for the first time, the permeate should be discarded continuously at least I hour.
- Keep elements moistly at all times after initial wetting.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e.

one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing from biological growth.

- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty. For additional information on use of approved chemicals please contact your nearest CSM representative.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCRE3512-TK	RE3512-TK	





CSM°

RESIDENTIAL NF elements for residential use

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection %
NE1812	80 (379)	40.0-60.0%
NE2010	90 (341)	40.0-60.0%

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

+ 250 mg/L NaCl solution at 60 psig (4.14 MPa) applied pressure

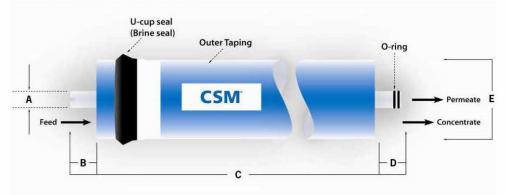
- 15% recovery
- 77 °F (25 °C)
- pH 6.5–7.0
- 2. Dry type elements are vacuum leak tested using the San Diego Protocol.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. All elements are packaged in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, Tape Wrapping

Di	mens	ions
_		

Model Name	A	В	С	D	E
NE1812	0.67	0.87	11.73	0.87	1.77
NE2010	0.67	0.63	10.08	0.87	1.91

*All measurement are in inches





1,8" - 2" Residential CSM Membranes



APPLICATION DATA:

Operating Limits

 Max. Operating Pressure 	125 psi (0.86 MPa)
• Max Feed Flow Rate	2 gpm (0.45 m ³ /hr)
Max. Operating Temperature	II3 ∘F (45 ∘C)
Operating pH Range	2.0-11.0
• Max Turbidity	I.0 NTU
• Max. SDI (15 min)	5.0
Max Chlorine Concentration	< 0.1 mg/L
	6-2

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.

CSM

• Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
MCNE1812	NE1812	
	NE2010	





RESIDENTIAL

CSM

UF elements for residential use

SPECIFICATIONS:

General Features

Model Name	Permeate Flow Rate GPD (L/day)	Molecular Weight Cut Off
UE1810	200 (757)	100K
UE1812	250 (946)	100K
UE2010	450 (1,703)	100K

1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:

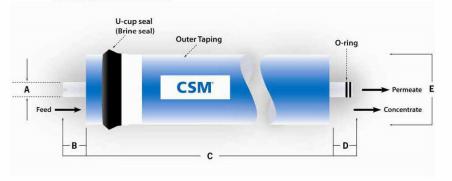
- + Pure water (2 M Ω) at 20 psig applied pressure
- 100% recovery
- 77 °F (25 °C)
- 2. Dry type elements are vacuum leak tested using the San Diego Protocol.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. Dry elements are packaged in a polyethylene bag
 - m Wet elements are packaged in a polyethylene bag containing SB(4g/L) + HCl(0.51g/L) solution.

Membrane type: Membrane material: **Element configuration:** Thin-Film Composite Polysulfone (PSF) Spiral-Wound, Tape Wrapping

Dimensions

Model Name	Α	В	С	D	E
UE1810	0.67	0.55	10.08	0.98	1.77
UE1812	0.67	0.55	11.02	0.79	1.77
UE2010	0.67	0.55	10.08	0.98	1.91

*All measurement are in inches





These model names are tested and certified under NSF/ANSI standard 58, material requirement only (excluding UE1812)





1,8" - 2" Residential CSM Membranes



CSM

RESIDENTIAL UF elements for residential use

APPLICATION DATA:

Operating Limits

- Max. Operating Pressure
 Max. Feed Flow Rate
 Max. Operating Temperature
 Operating pH Range
 Max. Turbidity
- Max. SDI (15 min)

125 psi (0.86 MPa) 2 gpm (0.45 m³/hr) 113 °F (45 °C) 2.0–11.0 1.0 NTU 5.0

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GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

REF.	MODEL NAME	
	UE1810	
MCUE1812 (*)	UE1812	
	UE2010	

(*) available till it will be out-of-stock.



Vessel for Residential Elements

1,8"- 2" membranes

- material PP white;
- connections ¹/₈" NPT F;
- max pressure 125 psi (8,6 bar);
- double o-ring;
- permeate tube seat diameter = 0,67";
- nominal dimension 1812 2012.

Membranes coupling:

CSM 1,8" - 2" residential membranes, see 10-01-01-EN, 10-01-02-EN, 10-01-03-EN, 10-01-04-EN • 10-01-07-EN and 10-01-08-EN data sheets.

REF.

DE010

Single mounting clips for vessel residential 1,8" - 2" membranes

- material PP;
- white colour.

REF.	
DE034	

2,8" - 3" membranes

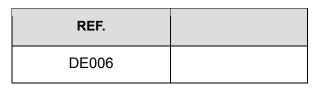
- material PP white;
- connections: - feed, permeate and concentrate 3/8" NPT F (please, use our fittings ref. AV153 or elbows ref. AV159);
- max pressure 125 psi (8,6 bar);
- permeate tube seat diameter = 0.67";
- nominal dimension 2812 3012. •

Membranes coupling:

CSM 2,8" residential membranes, see 10-01-02-EN and 10-01-05-EN data sheets. •

Single mounting clips for vessel residential 2,8" - 3" membranes

- material PP;
- white colour.

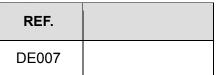














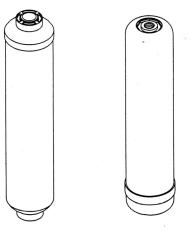
10-01-09-EN



In-Line Cartridges



- IN LINE cartridges 1/4" NPT F connections;
- Max pressure = 100 psi (7 bar);
- Max temperature = 35°C;
- D.M. n.174 dated 06/04/2004 compliant about materials suitable for contact with water for human consumption.



REF.	DIAMETER (inch)	LENGTH (inch)	VERSION	FLOW (gpm)	
DE028	2"	10"	Coconut Shell Activated Carbon	0,75	
DE029	2"	10"	Sediment	0,75	
DE030	2 1⁄2"	11"	Coconut Shell Activated Carbon	1,00	
DE031	2 1⁄2"	11"	Sediment	1,00	

R.O. compact assembly and accessories

REF.	DESCRIPTION	
DE100	Compact assembly empty	
DE101	Special membrane 50 GPD	
DE102A	Sediment / Carbon Block Prefilter cartridge	
DE103	GAC Postfilter cartridge	

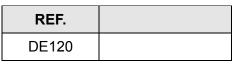
(*) available till it will be out-of-stock.

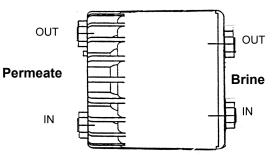


Permeate Pump for Residential R.O. Systems

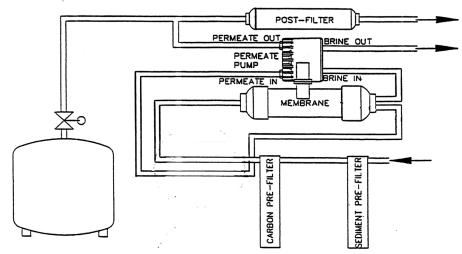


- using the energy of the brine water of the R.O. system to pump the permeate into the pressure tank, increases the net operating pressure on the membrane and eliminate the negative effect of the pressure on the storage tank;
- hydraulic pump, does not require electricity;
- for residential R.O. systems with pressurized storage tank and membrane from 35 to 100 GPD;
- the permeate pump can increase up to 5 time the system recovery, reducing the water consumption and the refill time of the storage tank;
- no shut-off valve is needed;
- materials polypropylene/ EPDM;
- max operating pressure 6,8 bar;
- connections for ¹/₄" tubing;
- max drain flow rate 0,8 l/min.





Typical system layout



ATTENTION

Install the pump horizontal with both outlet ports in the highest position so that any air purges out automatically.

The concentrate flow restrictor has to be installed before the permeate pump inlet.

ACCESSORIE		
REF.	DESCRIPTION	
DE121	SINGLE MOUNTING CLIP	

Booster Pump for Residential R.O.

- booster pump and relevant accessories for residential R.O. Systems.
- membrane booster pump with transformer;
- transformer power supply 220 V 50 Hz;
- IN/OUT connections %" F.

REF.	MODEL	POWER SUPPLY	FLOW(60 psi	liters/min) 100 psi	
DE130	E36	24 VAC	0,8	0,6	

Accessories:

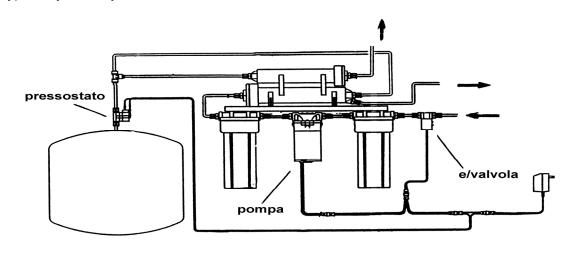
High/low pressure switch

Typical system layout

- pressure 30 50 psi;
- connections 1/4" tube.

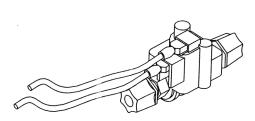
REF.	
DE140	

- to use as high pressure switch contacts C and NC;
- to use as low pressure switch contacts C and NO.



EUROTR

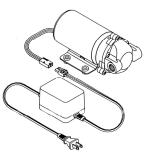
WATER TREATMENT CON



NO •

NC

С







MWG Booster Pumps for Residential R.O.



- MWG booster pumps for residential R.O. Systems;
- Membrane booster pumps without transformer (to order separately);
- IN/OUT connections 3/6" F;
- Conform with CE safety Directives.



REF.	MODEL	POWER SUPPLY	TRANSFORMER REF.	INLET PRESSURE (psi)	WORKING PRESSURE RANGE (psi)	FLOW @ 70 psi (I/min)	RATED CURRENT (A)	CURRENT @ 70 psi (A)	
DH501	M100G	24 VDC	DH531	30	60 ÷ 80	≥ 1,1	1,8	≤ 1,2	
DH503	L200G	24 VDC	DH533	30	60 ÷ 80	≥ 1,6	2,2	≤ 1,6	
DH505	L400G	24 VDC	DH535	30	70 ÷ 90	≥2,6	3,6	≤ 2,5	

TRANSFORMERS

REF.	MODEL	
DH531	24VDC 2,0A	
DH533	24VDC 2,5A	
DH535	24VDC 4,0A	



Two-Way Solenoid Valves for R.O. Systems

- two-way solenoid valve direct acting;
- body material plastic;
- connections ¼" NPT;
- power supply 24 VAC;
- orifice diameter 2,5 mm.

REF.	
DE142	



- two-way solenoid valve direct acting;
- body material brass.





REF.	CONNECTIONS (inch)	POWER SUPPLY	ORIFICE DIAMETER (mm)	
DE144	1/4"	24 VDC	3,0	
DE147	3/8"	220 VAC	4,5	



Saddle Valve

- saddle valve self piercing for residential R.O and filtration systems;
- suitable for copper piping;
- connection for 1/4" tubing;
- material brass with aluminium clamp.

REF.	
DE041	



Needle Valves

- needle valve for residential R.O and filtration systems;
- for tube ½" M/F or ¾" M/F;
- connection for $\frac{1}{4}$ " or $\frac{3}{8}$ " or $\frac{5}{16}$ " flexible tubing;
- material brass.

REF.	TUBE (inch)	FLEXIBLE TUBING (inch)	
DE039	1⁄2" M/F	1/4"	
DE050	1⁄2" M/F	3/8"	
DE050A	1⁄2" M/F	⁵ ⁄ ₁₆ "	
DE039A	³∕₃" M/F	1/4"	







• suitable for residential R.O and filtration systems.

Drain Clamp

• material ABS black.

REF.	CONNECTION (inch)	
DE040	1⁄4" tubo	
DE049	1⁄4" F NPT	

Diverter Valve with Swivel Collar

- connection for 1/4" tubing;
- material chrome pleated brass.

REF.	
DE042	





ADAPTER 15/16" - 27 X 55/64" - 27

- length 8 mm;
- material chrome pleated brass.

REF.	
DE043	





• Range of polypropylene fittings, white colour, for residential R.O. and filtration systems.

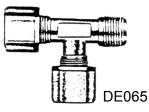
	STRAIGHT				
REF.	THREADED CONNECTION (inch)	FOR TUBE (inch)			
DE063	1/8"	1/4"			
DE064	1/4"	1⁄4"			
DE068	1⁄4" F	1/4"			
DE069	3/" /8	1⁄4"			

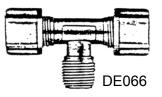


	ELBOWS				
REF.	THREADED CONNECTION (inch)	FOR TUBE (inch)			
DE060	1/8"	1/4"			
DE062	1⁄8" F	1/4"			
DE061	1/4"	1/4"			
DE070	3/8" /8	1/4"			

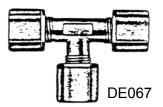


	TEES				
REF.	1⁄4" THREAD POSITION	THREADED CONNECTION (inch)	FOR TUBE (inch)		
DE065	LATERAL	1/4"	1⁄4"		
DE066	CENTRAL	1/4"	1/4"		
DE067	-	-	1/4"		





EUROTR



BULKHEAD UNION		
REF. FOR TUBE (inch)		
DE085 (*)	1/4"	

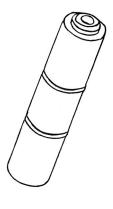


(*) available till it will be out-of-stock.





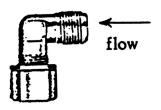
In-Line Flow Restrictors



• Quick connections 1/4" tube.

REF.	Flow @ 60 psi (gpd)	Flow @ 60 psi (ml/min)	
DE105	60	150	
DE106	115	300	
DE107	150	400	
DE108	208	550	
DE109	227	600	
DE110	300	800	

JACO Style Check Valve



Jaco style elbow 1/8" x 1/4" tube complete with AISI check-valve.

REF.	
DE079	

S.S. Check Valve



• Stainless steel check valve ¹/₈" x ¹/₈".

REF.	
DE048	





Storage Tanks for R.O. Systems



PP Storage Tanks

- pressurized storage tank for treated water;
- white colour;
- connection ¹/₄" NPT;
- min. operating pressure 1 bar.



REF.	CAPACITY (liters)	MATERIAL	DIAMETER (mm)	HEIGHT (mm)	MAX PRESSURE (bar)	
DE032	12	PP / acciaio	240	370	7,0	
DE051	15	PP	260	400	3,5	

Steel Storage Tanks

- pressurized storage tank for R.O water;
- material painted steel, white colour;
- connection 1" BSPP female;
- with threaded extension M 1" x ¼", with elbowed ball valve with connection ¾" tubing;
- min. operating pressure 1 bar;
- max operating pressure 7 bar.



REF.	CAPACITY (liters)	DIAMETER (mm)	HEIGHT (mm)	
DE096	41	390	575	
DE097	75	390	770	



Elbowed Ball Valve

- material white plastic;
- connections ¹/₄" F NPT x ¹/₄" tubing.

REF.	
DE052	

Automatic Shut-Off Valve

- material white ABS;
- connections ¼" tubing;
- max pressure 125 psi (8,5 bar).

REF.	
DE038	

Mechanical Flow Meter

- adjustable setting;
- automatic shut-off based on volume;
- capacity 7000 litres;
- connections ¼" NPT;
- operating pressure 1 ÷ 8,5 bar;
- material ABS, black colour.

REF.	
DE080	









Clips - Valves - Tubing

Single Mounting Clips

- PP material; •
- white colour.

REF.	DIAMETER (inch)	DIAMETER (mm)	
DE033	2"	50	
DE034	2 1/2"	60	
DE006	3"	90	

Double Mounting Clips

- PP material;
- white colour.

REF.	DIAMETER (inch)	DIAMETER (mm)	
DE035	2" x 2 ½"	50 x 60	
DE036	2 ½" x 2 ½"	60 x 60	

Flexible ¼" Tubing

hanks of 50 m (100 m only for DE081). •

REF.	DIAMETER (inch)	DIAMETER (mm)	
DE082	PVC	White	
DE083	PE	Blue	
DE084	PE	Black	
DE086	PE	Red	
DE081	PE	Clear	

Needle Valve In-Line Style

brass material •

REF.	TUBE CONNECTIONS	
DE098	1/4"	
DE098A	3/8"	

Insert for Flexible 1/4" Tubing

CELCON material •

REF.	
DE059	















Faucet

Long Reach Faucet

- material chrome pleated;
- connection for ¼" tubing;
- complete with installation kit;
- threaded tube length 50 mm.

REF.	
DE037	

Quarter-Turn faucet

- metal and plastic chrome material;
- connection for 1/4" tubing;
- complete with installation kit;
- threaded tube length 71 mm;
- wetted materials suitable for drinking water use;
- conform to the requirements of NSF/ANSI 61.

REF.	
DE116	

Single Handle Faucet with Drinking Nozzle

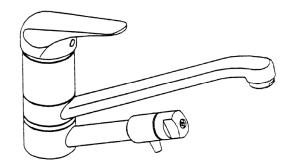
treated water connection 1/4" tube; complete with installation kit.

adjustable necks;

needle valves;

monobloc, material chrome pleated;

hot and cold water connections 1/2" with

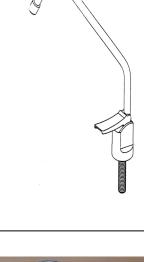


REF.	
DE087	









Pressure Gauge - Adapters - Valves

Pressure Gauge

- pressure set 0 ÷ 10 bar;
- connection ¹/₈" M;
- diameter 25 mm.

REF. DE077

3 Ways Adapter for Pressure Gauge

- plastic material;
- connections ¹/₈"F x ¹/₈"M x ¹/₄" tube.

REF.	
DE078	

In Line Needle Valve

- plastic material;
- ¼" tube quick connections.

REF.	
DE088	

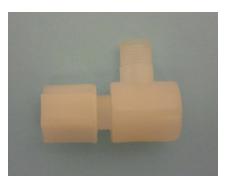
Check Valve in Line

- plastic material;
- 1⁄4" tube quick connections.

REF.	
DE089	















Filter Housings for R.O. Systems

- suitable for residential R.O. and filtration systems;
- two pieces filter housing with fixable head;
- plastic material;
- IN-OUT connections ¼" NPT;
- max operating pressure 7 bar;
- max operating temperature 35°C.

(*) available till it will be out-of-stock.

(**) N.A. = Not Available.



MS-

REF.	MODEL	LENGTH CARTRIDGE (inch)	SUMP MATERIAL AND COLOUR	
DE020 (*)	AS 0514	5"	AS clear	
DE021A (*)	PP 1014	10"	PP white	
DE016 (**)	AS 1014	10"	AS clear	

Accessories

REF.	DESCRIPTION	K)
FB004 (*)	PLASTIC WRENCH WHITE COLOUR	

REF.	DESCRIPTION	
DE019 (*)	PP ¼" X ¼" NIPPLE, LENGTH 38 mm, WHITE COLOUR	O A A A A A A A A A A A A A A A A A A A

REF.	DESCRIPTION	0 0
FB007 (*)	BRACKET FOR SINGLE FILTER, MATERIAL WHITE COATED METAL	

REF.	DESCRIPTION	0 0 .
DE025 (*)	BRACKET FOR DOUBLE FILTER, MATERIAL WHITE COATED METAL	

REF.	DESCRIPTION	ð
DE026 (*)	BRACKET FOR TRIPLE FILTER, MATERIAL WHITE COATED METAL	





MD, DD and TD two Pieces Filter Housings IN/OUT connections ¹/₄" for R.O. Systems











10-01-27-EN

- Made in European Union (Italy);
- Suitable for residential R.O. and filtration systems;
- Two pieces filter housings for standard filtering cartridges external diameter max 64 mm, length 10" (total height 325 mm);
- Fixable head (single, double or triplex) in material PP reinforced white colour;
- Sump in PET clear or white, O-ring in EPDM;
- IN/OUT connections 1/4" BSPP F;
- With air valve;
- Max operating pressure 8 bar, temperature 4 ÷ 45°C;
- D.M. n.174/2004 compliant about materials suitable for contact with water for human consumption;
- D.M. n.25/2012 compliant about technical provisions for equipment intended for water treatment for human consumption;
- In compliance with the sanitary certification ACS (France).
- Designed for the following single, double or triple brackets (also ideal for 2 + 1 application), with fixing screws.

REF.	MODEL	CARTRIDGE LENGTH (inch)	SUMP MATERIAL AND COLOUR	HEAD DIMENSION (mm)	TOTAL LENGTH (mm)
FBMD1002T	MD1002T	Single	Clear	122	11,77
FBMD1002W	MD1002W	Single	White	122	11,77
FBDD1002W	DD1002W	Duplex	White	228	25,09
FBTD1002W	TD1002W	Triplex	White	336	32,14

Accessories

REF.	DESCRIPTION	
FBMDR11	PLASTIC WRENCH FOR MD FILTER HOUSINGS	
FBMDR22	WHITE BRACKET WITH SCREWS FOR MD AND MT FILTER HOUSINGS	
FBMDR24	WHITE BRACKET WITH SCREWS FOR DD AND DT TWO FILTER HOUSINGS	
FBMDR26	WHITE BRACKET WITH SCREWS FOR TD AND TT THREE FILTER HOUSINGS	

EUROTR

Flow Restrictor Linear Type

- capillary adjusting flow system with insertion in tube ¼" diameter (Øe=6,35 mm);
- 200 mm standard length; you can change the length as required (please see the diagram below);
- PP material insert: PE material capillary tube;
- range of operating pressure 2 ÷ 8 bar.

ITEM	DESCRIPTION	REF.	
1	FLOW RESTRICTOR LINEAR TYPE; L = 200 MM	DE122	
2	FLOW RESTRICTOR FRT-14P INSERT	DE124	
3	CAPILLARY TUBE (25 M ROLL)	DE125	
4	FLOW RESTRICTOR JACO DOUBLE INSERT OPEN	DE123	

4

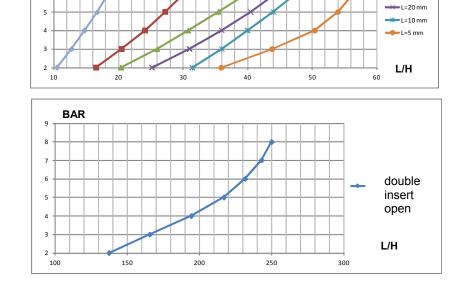
WARNING: it is essential that the cutting of the capillary be net and tube perfectly circular (you can use an awl in order to restore the circular form), otherwise the flow rate value can be greatly altered. Observe the flow direction as shown in Picture n.1.

BAR

9

7

6



Flow restrictor Jaco ¼" double insert open

Flow restrictor

linear type

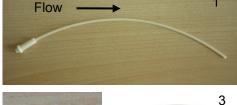




=200 mr

L=80 mm









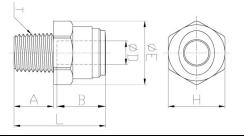


- Suitable for residential R.O. and filtration systems;
- Designed for water, food and air contact but can be used with selected gases, vacuum & other liquids;
- DM 174 (Italy) dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
- In compliance with the sanitary certification ACS (France);
- In acetal resin grey color, non-toxic and NSF approved material;
- Pressure max 16 bar @ 25°C.

MALE CONNECTOR NPTF

REF.	T NPT THREADED CONNECTION (inch)	Ø D CONNECTION (inch)	A (mm)	B (mm)	ØE (mm)	H (mm)	L (mm)	
DH005	1/8"	1/4"	9,1	16,9	17,8	15,8	27,0	
DH006	1/4"	1/4"	13,2	16,9	17,8	15,8	27,0	
DH007	3/8"	1⁄4"	13,8	16,9	21,4	19,0	26,1	
DH012	1/8"	3/8"	9,1	20,2	23,0	20,6	30,4	
DH013	1/4"	3/8"	13,2	20,2	23,0	20,6	34,3	
DH014	3⁄8"	3/8"	13,8	20,2	23,0	20,6	29,9	

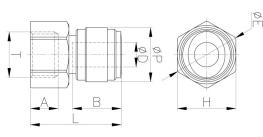




FEMALE ADAPTER NPTF

REF.	T NPT THREADED CONNECTION (inch)	Ø D CONNECTION (inch)	Ø P (mm)	A (mm)	B (mm)	ØE (mm)	H (mm)	L (mm)	
DH021	1/8"	1⁄4"	15,5	11,5	16,9	19,0	17	30,9	
DH022	1/4"	1⁄4"	15,5	11,5	16,9	21,5	19	30,9	
DH023	1/4"	3/8"	20,0	11,5	20,2	21,5	19	34,2	







Fittings

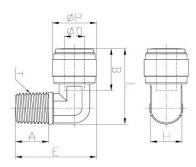


- Suitable for residential R.O. and filtration systems;
- Designed for water, food and air contact but can be used with selected gases, vacuum & other liquids;
- DM 174 (Italy) dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
- In compliance with the sanitary certification ACS (France);
- In acetal resin grey color, non-toxic and NSF approved material;
- Pressure max 16 bar @ 25°C.

MALE ELBOW NPT

REF.	T NPT THREADED CONNECTION (inch)	Ø D CONNECTION (inch)	Ø P (mm)	A (mm)	B (mm)	E (mm)	H (mm)	L (mm)	
DH033	1/8"	1/4"	15,5	9,1	16,9	26,4	11,0	25,6	
DH034	1/4"	1⁄4"	15,5	13,2	16,9	31,9	11,0	27,0	
DH035	3/8"	1⁄4"	15,5	13,8	16,9	32,7	11,0	28,9	
DH038	1/4"	3/8"	20,0	13,2	20,2	35,2	14,3	31,8	
DH039	3/8"	3/8"	20,0	13,8	20,2	35,8	14,3	33,9	

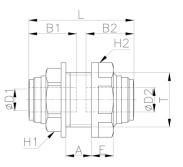




BULKHEAD CONNECTOR

REF.	т	Ø D 1 CONNECTION (inch)	Ø D 2 CONNECTION (inch)	B ₁ (mm)	B ₂ (mm)	H ₁ (fixed)	H ₂ (mm)	L (mm)	
DH052	M17	1⁄4"	1⁄4"	16,9	16,9	19	21	35,7	
DH054	M24	3/8"	³ /8"	20,2	20,2	24	25,5	42,4	









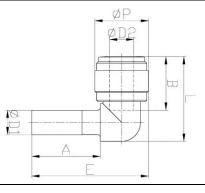


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- DM 174 (Italy) dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
- In compliance with the sanitary certification ACS (France);
- In acetal resin grey color, non-toxic and NSF approved material;
- Pressure max 16 bar @ 25°C.

UNION ELBOW TUBE WITH STEM

REF.	Ø D ₁ CONNECTION (inch)	Ø D 2 CONNECTION (inch)	Ø P (mm)	A (mm)	B (mm)	E (mm)	L (mm)	
DH063	1⁄4"	1/4"	15,5	21,0	16,9	34,8	25,1	
DH065	³ /8"	3/8"	20,0	24,8	20,2	43,2	31,4	
DH067	³ /8"	1⁄4"	17,6	22,5	17,5	38,3	27,7	

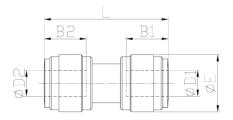




UNION CONNECTOR

REF.	Ø D 1 CONNECTION (inch)	Ø D ₂ CONNECTION (inch)	B ₁ (mm)	B ₂ (mm)	Ø E (mm)	L (mm)	
DH073	1⁄4"	1⁄4"	16,9	16,9	15,5	36,2	
DH075	3/8"	³ /8"	20,2	20,2	20,0	42,9	
DH079	3/8"	1⁄4"	20,2	16,9	20,0	42,1	









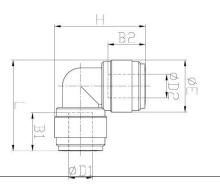


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- Pressure max 16 bar @ 25°C.

UNION ELBOW

REF.	Ø D ₁ CONNECTION (inch)	Ø D 2 CONNECTION (inch)	B ₁ (mm)	B ₂ (mm)	Ø E ₁ (mm)	Ø E 2 (mm)	L (mm)	H (mm)	
DH083	1⁄4"	1⁄4"	16,9	16,9	15,5	15,5	28,8	28,8	
DH085	3/8"	3⁄8"	20,2	20,2	20,0	20,0	35,9	35,9	

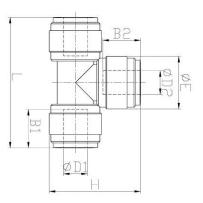




UNION T

REF.	Ø D ₁ CONNECTION (inch)	Ø D 2 CONNECTION (inch)	ØD3 CONNECTION (inch)	B 1 (mm)	B 2 (mm)	B 3 (mm)	ØE (mm)	L (mm)	H (mm)	
DH093	1⁄4"	1/4"	1/4"	16,9	16,9	16,9	15,5	42,0	28,8	
DH095	3/8"	³ /8"	³ /8"	20,2	20,2	20,2	20,0	51,8	35,9	









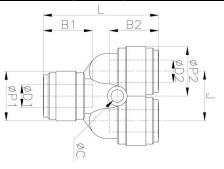


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- DM 174 (Italy) dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
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- In acetal resin grey color, non-toxic and NSF approved material;
- Pressure max 16 bar @ 25°C.

TWO WAY DIVIDER

REF.	Ø D 1 CONNECTION (inch)	Ø D 2 CONNECTION (inch)	B ₁ (mm)	B 2 (mm)	Ø P ₁ (mm)	Ø P 2 (mm)	L (mm)	J (mm)	C (mm)	
DH103	1/4"	1⁄4"	16,9	16,9	15,5	15,5	38,8	15,5	3,3	
DH105	3/8"	3/8"	20,2	20,2	20,0	20,0	46,4	20,0	4,5	

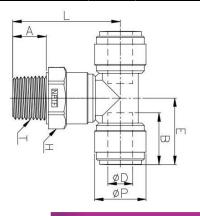




MALE SWIVEL TEE NPTF

REF.	T NPT THREADED CONNECTION (inch)	Ø D CONNECTION (inch)	Ø P (mm)	A (mm)	B (mm)	E (mm)	H (mm)	L (mm)	
DH112	1/4"	1/4"	15,5	13,2	16,9	21,0	17,46	36,9	
DH114	3/8"	3/8"	20,0	13,0	20,2	25,9	21,4	41,8	











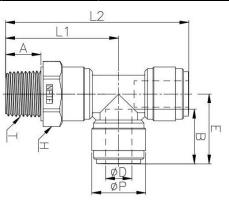


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- DM 174 (Italy) dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
- In compliance with the sanitary certification ACS (France);
- In acetal resin grey color, non-toxic and NSF approved material;
- Pressure max 16 bar @ 25°C.

MALE SWIVEL RUN TEE NPTF

REF.	T NPT THREADED CONNECTION (inch)	Ø D CONNECTION (inch)	Ø P (mm)	A (mm)	B (mm)	E (mm)	H (mm)	L 1 (mm)	L 2 (mm)	
DH122	1/4"	1/4"	15,5	13,2	16,9	21,0	17,46	36,9	57,9	
DH124	3/8"	3/8"	20,0	13,0	20,2	25,9	21,4	41,8	67.7	

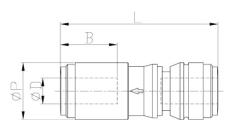




CHECK VALVES

REF.	Ø D CONNECTION (inch)	Ø P (mm)	B (mm)	L (mm)	
DH131	1/4"	15,5	16,1	45,5	
DH133	³ /8"	20,0	19,5	57,8	









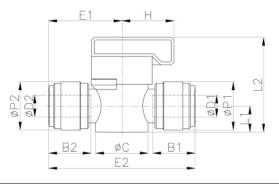


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- Pressure max 16 bar @ 25°C.

2 WAYS HAND VALVES

REF.	Ø D ₁ CONNECTION (inch)	Ø D 2 CONNECTION (inch)	B ₁ (mm)	B 2 (mm)		Ø P 2 (mm)	L ₁ (mm)	L 2 (mm)	E (mm)	ØC (mm)	
DH141	1⁄4"	1/4"	16,1	16,1	15,5	15,5	9,5	34,5	51,7	19,2	
DH143	3⁄8"	3/8"	20,2	20,2	20,0	20,0	12,5	42,3	63,2	24,2	





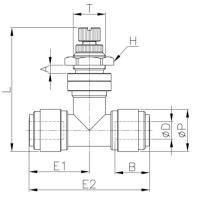
BULKHEAD FLOW REGULATORS

REF.	Ø D CONNECTION (inch)	т	Ø P (mm)	A (mm)	B (mm)	E ₁ (mm)	E ₂ (mm)	H (mm)	L min (mm)	L max (mm)	
DH157	1/4"	M12	15,5	5,0	16,9	22,2	44,4	16	45,5	50,4	
DH158	3/8"	M15	20,0	6,0	19,8	26,1	52,1	19	52,7	58,4	

EUROTR

WATER TREATMENT CON





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Fittings

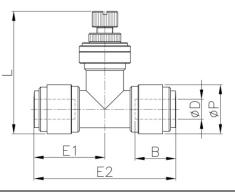


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FLOW REGULATORS

REF.	Ø D CONNECTION (inch)	Ø P (mm)	B (mm)	L min (mm)	L max (mm)	E 1 (mm)	E 2 (mm)	
DH167	1/4"	15,5	16,9	45,5	42,7	22,2	44,4	
DH168	³ /8"	20,0	19,8	57,8	49,7	26,1	52,1	

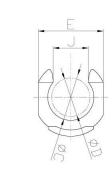




LOCKING CLIPS

REF.	Ø D CONNECTION (inch)	ØC (mm)	E (mm)	L (mm)	H (mm)	J (mm)	K (mm)	
DH193	06 - ¹ ⁄4"	8,0	11,6	11,6	3,1	6,4	1,3	
DH195	10 - <mark>³⁄</mark> 8"	11,8	16,0	16,4	3,4	9,2	1,4	







PRF-RO Reverse Osmosis System



- Suitable for residential and commercial application use; ٠
- Compact and reliable system that better suits the flow • requirements of small and mid-sized businesses;
- No storage tank needed;
- Works with Line Pressure;
- No Pump or Electricity;
- Very easy installation with quick connections;
- Virtually Maintenance Free (change cartridges fast and easy);
- Consisting of Nr.1 Carbon Pre-Filter, Nr.2 R.O. Membrane Elements and Nr.1 Carbon Post-Filter.

OPERATING CONDITIONS	MINIMUM	MAXIMUM
Inlet Pressure	2,8 bar (40 psi)	5,5 bar (80 psi)
Inlet Temperature (°C)	4	38
Inlet TDS (mg/l)	50	2.000
Inlet Hardness (°F)	0	20
Inlet Chlorine (mg/l)	0	1,0
Inlet Iron (mg/l)	0	0,1
Inlet Manganese (mg/l)	0	0,05

Salt Rejection: Minimum 90%, Medium 93%.

TUBING/FITTING DIMENSIONS	
Inlet Tubing (natural tubing)	1/2"
Concentrate Tubing (black tubing)	3/8"
Permeate Tubing (blue tubing)	3/8"
Drain Tubing (red tubing) for airgap installation	1/2"
Drain connection	3⁄8" or 1⁄2"
Carbon Post-Filter	¾" quick disconnect fittings

Filter/Membrane Performance Specifications:

Filter Type	Length (mm)	Diameter (mm)	Flow Rate (lpm)	Flow Rate (gpm)	Average Life (months)
Carbon Pre-Filter	432	74	14,20	3,75	6 (or 19.000 liters)
RO Element	476	80	(*) 0,95	(*) 0,25	24 ÷ 48
Carbon Post-Filter	254	51	2,80	0,75	6 (or 19.000 liters)

(*) @ 3,44 bar T=25°C 750 mg/l NaCl 25% recovery 1 ppm Chlorine inlet

Ref.	P. N.	Description	
DE904	4000462	Kit R.O. PRF-RO System with faucet	
DE906 (*)	4000575	Kit R.O. PRF-RO System without faucet	

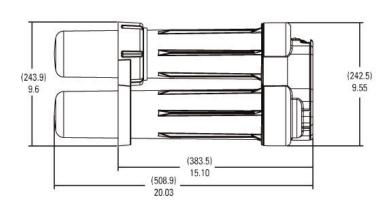
(*) available till it will be out-of-stock.

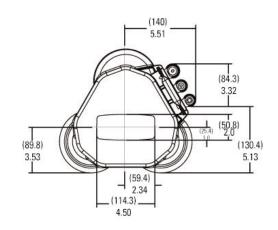


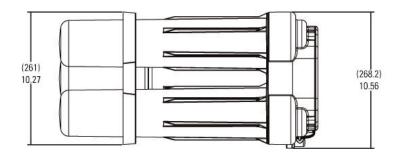
PRF-RO Reverse Osmosis System



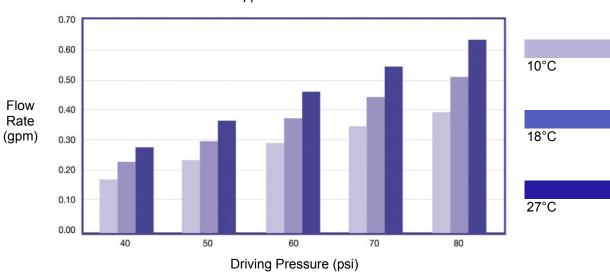
Outline Dimensions in Inches (mm):







Performance – Flow Rate Characteristics (*)



Based on 750 ppm TDS Inlet Water

Flow Adjustment Based on TDS

(*) Estimated flow based on internal test data. Actual performance may vary.





Spare parts of PRF-RO Reverse Osmosis System:

Ref.	P. N.	Description
DE920	4000569	PRF-RO Membrane
DE923	3038333	Carbon pre-filter
DE924	1266690	Sediment pre-filter 10 micron
DE926	255526-09	Carbon post-filter
DE930	1239705	Sump
DE932	1240326	Sump o-ring
DE935	4000445	PRF-RO complete manifold
DE937	3038021	PRF-RO Support Leg
DE938	1240564	Drain boa kit
DE941	3038026	Locking bar disconnect
DE942	3020487	Air-gap faucet kit
DE945	4000330	PRF-RO kit connection fittings
DE946	1255736	Tubing install kit
DE950 (*)	1240620	¾" black tubing 152 m
DE951 (*)	1240621	¾" blue tubing 152 m
DE952 (*)	1240622	½" natural tubing 76 m
DE953 (*)	1240623	½" red tubing 76 m
DE954	1264462	Fitting elbow concentrate %" black
DE955	12400117	Fitting elbow feed 1/2" white
DE956	12400118	Fitting elbow permeate 3/6" blue
DE960	3002791	Tds and temperature meter
DE961	4000454	PRF-RO retro fit kit

(*) N.A. = Not Available.

