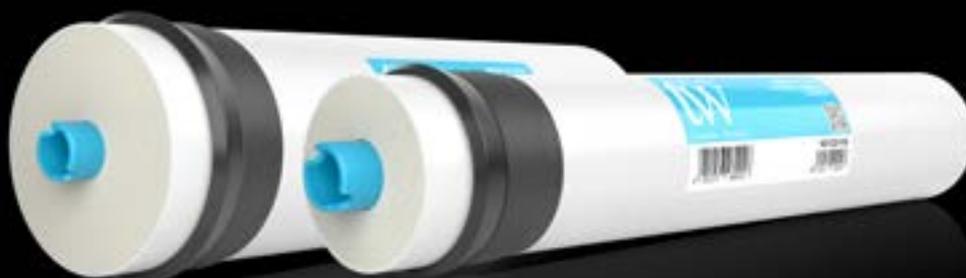


TW:RO MEMBRANES



MADE IN ITALY



think:water © 2021

TW:RO MEMBRANES

A complete range of TW:RO membranes is available, entirely produced in Italy and ready to meet the different needs of customers in the domestic and professional sector.

TW:RO membranes provide high purity water, follow high quality production standards and guarantee high performance.

TW:RO membranes are created with high quality biomimetic technology and the entire production process respects the high industry 4.0 standards.

OPERATING CONDITIONS



Temperature
45 °C (104 °F)



Operating pressure
(304 psig) 21 bar



pH Range
2 - 11



Chlorine
<0.1 ppm



SDI
5 (15 min)

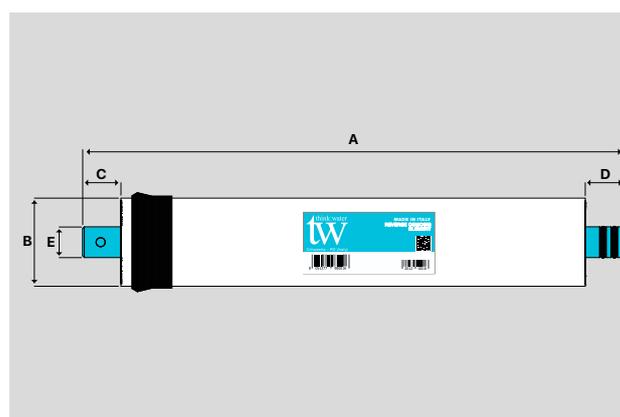
PERFORMANCE (e)

Nominal permeability (L/m ² ·h·bar)	Minimum permeability (L/m ² ·h·bar)	Nominal rejection (%)	Minimal NaCl rejection (%)
13.6	11.3	97%	95

- a. Maximum temperature for continuous operation at pH>10 is 45°C.
b. Always avoid static back pressure on the permeate side.
c. For cleaning of the membrane refer to the guide (p.2).
d. In certain conditions, the presence of free chlorine or of oxidising agents could shorten the life of the membrane. Oxidation of the membrane is not covered by the warranty. It is therefore advisable to pre-treat the feed water by removing any oxidising agents.
e. 250 ± 25 ppm NaCl solution at 25°C, pressure of 4.5 bar and pH 6.5-7.0. The declared performances are collected after 30 minutes of operation after the first 15 minutes of washing with RO water at a pressure of 15 bar. The flow rate of the membrane permeate may vary by ± 18%.

MODELS

Model	Length [mm]	Flow Rate [GPD]	Temperature [°C]	Pressure [bar]
M1121510B	1812	150 GPD	25°C	4.1 bar
M1122010B	1812	200 GPD	25°C	4.1 bar
M8123010B	2812	300 GPD	25°C	4.1 bar
M8125010B	3012	500 GPD	25°C	6.2 bar

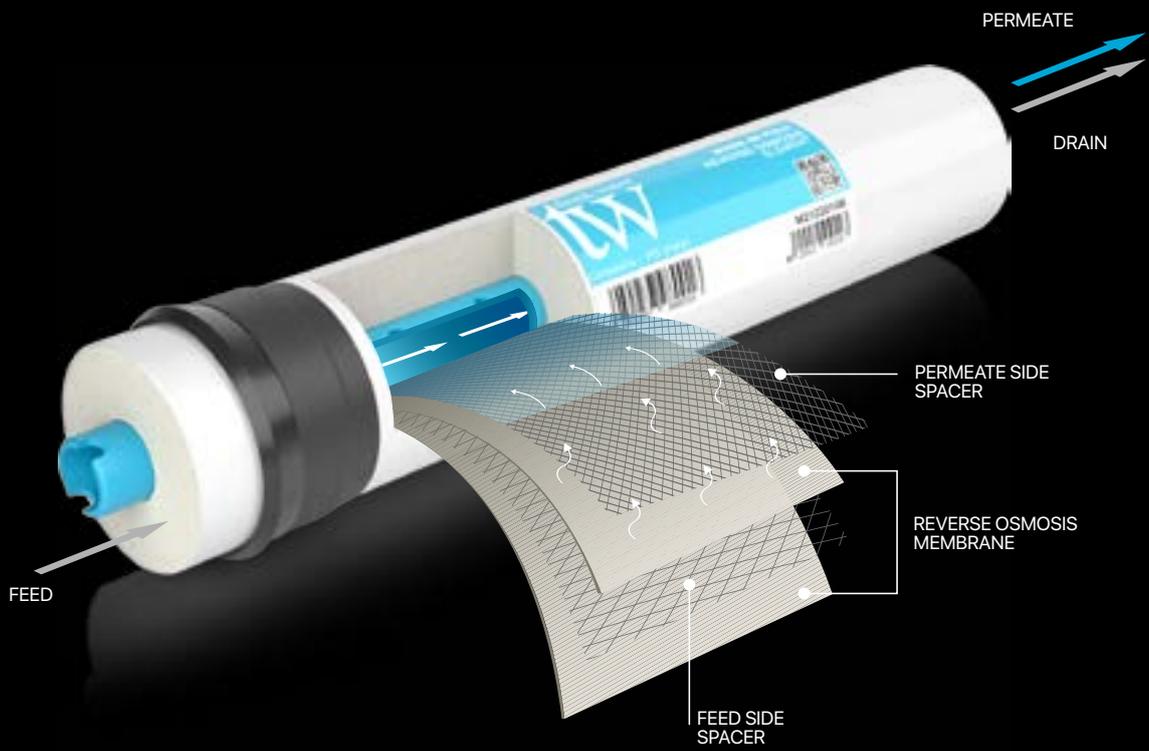


DIMENSIONS

	1812	1812	3012	3012
GPD	150	200	300	500
A [mm]	298	298	298	298
B [mm]	48	48	76	76
C [mm]	12	12	12	12
D [mm]	21	21	21	21
E [mm]	17	17	17	17



MADE IN ITALY



STORAGE CONDITIONS



4 - 25 °C



Indirect light



Closed packaging



Hygienic conditions

Refer to the "TW:RO membrane guidelines" guide for further information.

GENERAL INFORMATION

Correct start-up of reverse osmosis water treatment systems is essential to prevent membrane damage due to hydraulic overload or shock and to ensure increased performance.

Before starting the reverse osmosis system, check the correct installation of the membranes, the calibration of the instruments and the other control systems.

A gradual increase in pressure over 30-60 seconds is recommended during start-up. To ensure the maximum duration of the membranes, it is necessary to ensure that the filter elements always remain humid after the first wetting. To prevent biological growth during prolonged periods of system inactivity, the membrane elements should be immersed in a preservative solution.

For further details, refer to the "TW:RO membrane guidelines".

The use of this product alone does not guarantee the removal of cysts and pathogens from water. The effectiveness of cyst and pathogen reduction depends on the design of the complete system, its operation and on the good maintenance of the system.

This product may be subject to drinking water quality regulations. It is therefore advisable to check in advance the requirements of the country in which it is intended to sell or use the membranes.

WARRANTY

The customer is fully responsible for the effects of incompatible chemicals and lubricants on the elements.

Think:Water reserves the right to revoke the validity of the warranty if the operating limits and guidelines provided in the data sheet are not respected.

DISPOSAL

Dispose of the TW:RO membranes according to Decision 2014/955/EU (EWC 15 02 03) or in accordance with the legislation of the country in which you intend to dispose of the TW:RO membranes.

COMPANY CERTIFICATIONS

Made in Italy by think:water, a company certified according to the ISO 9001:2015 (quality) and ISO 14001:2015 (environment) standards and also MOCA-compliant.