



## Osmotec RO Membranes

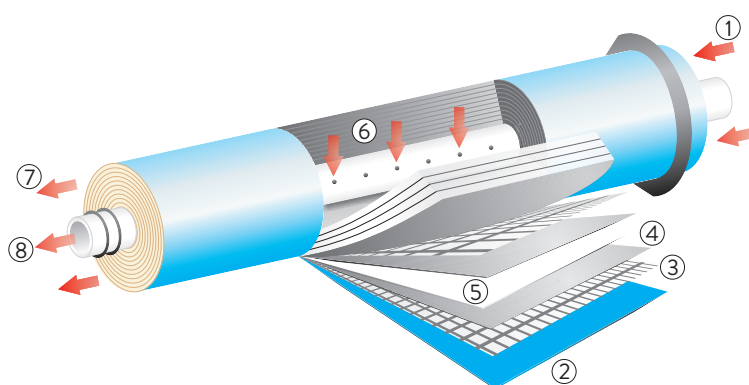
Reverse osmosis membranes are an essential component of every RO-based water purification system. Containing e.g. polyamide, they are highly effective when it comes to the separation of clear water and drain. The pre-filters in RO systems purify the water before it enters the membrane, whereas post-filters, installed after the membrane, enhance the taste and smell of water and also provide it with minerals. The membranes stop up to 99% of organic and non-organic contamination, heavy metals and other elements larger than  $0,0001\mu\text{m}$ .

Osmotec membranes

### Membrane operation method

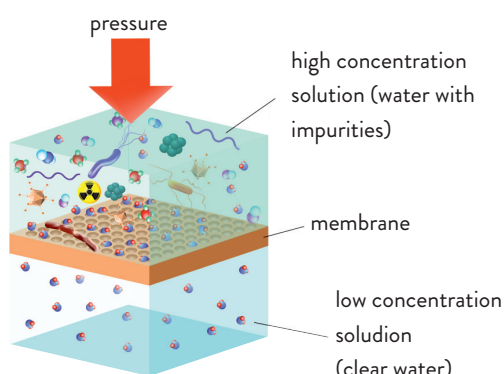


original Osmotec product is protected by a hologram and serial number



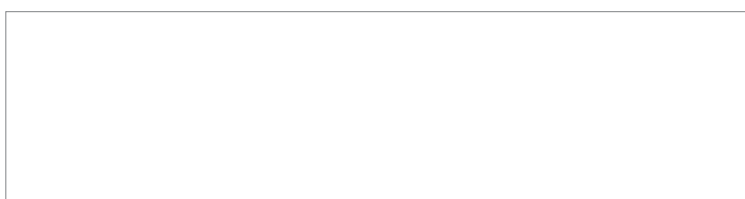
- |                 |                      |                |
|-----------------|----------------------|----------------|
| 1. Inlet water  | 4. Membrane          | 7. Drain       |
| 2. Inside layer | 5. Collective layer  | 8. Clear water |
| 3. Separator    | 6. Collective canals |                |

### Purification process












The RO membrane is composed of multiple layers, which are wound around a stem inside the membrane. The contaminated water is pressed through the membrane surface. Water particles are pushed through microscopic pores of the filtration layers. After separation, the impurities are lead to the drain, whereas the purified water reaches the central canal of the membrane and then is pressed to the clear water outlet.

### Nearest dealer

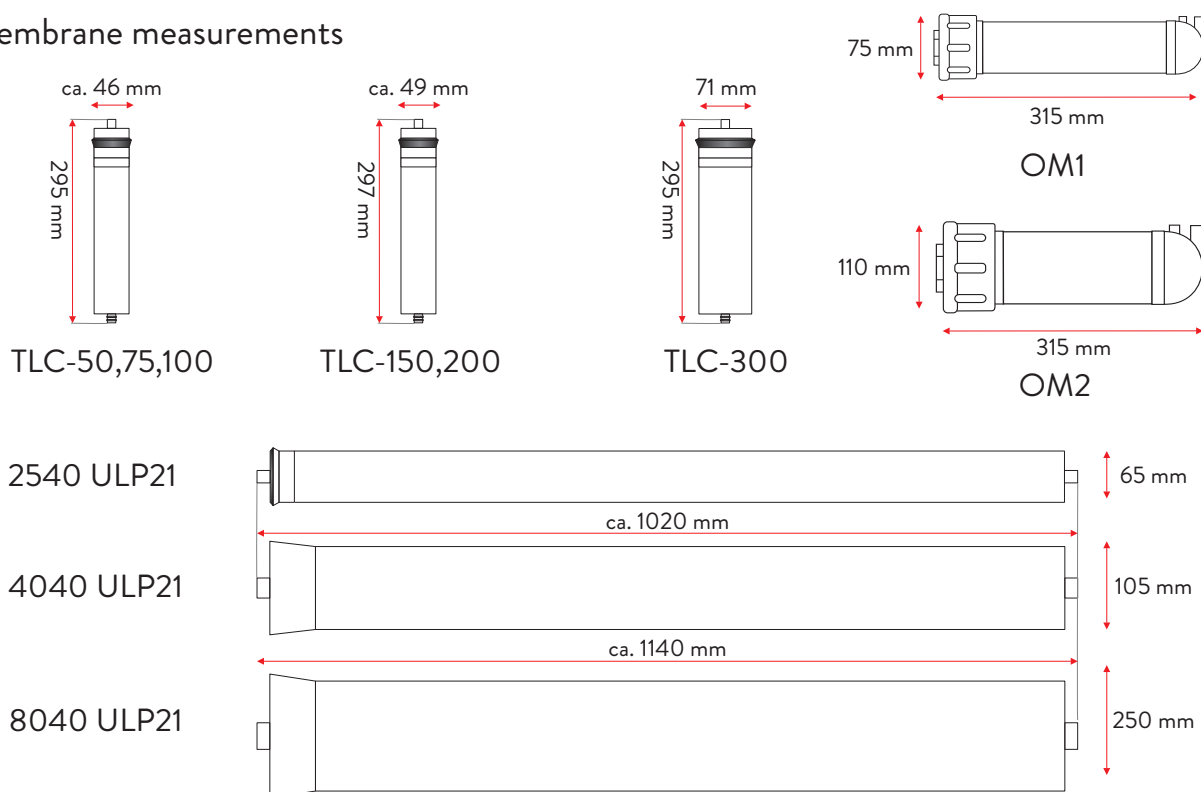


## Product technical data

Model	TLC 1812-50	TLC 1812-75	TLC 2012-100	TLC 2012-150	TLC 2012-200	TLC 2812-300	2540 ULP21	4040 ULP21	8040 ULP21
Photo									
Liter / day*	180	284	378	567	760	1135	2800	9500	41000
Work press.	2,8 - 6,0 bar						40 bar		
Work temp.	2°-40°C								
Flow limiter**	350 cc	420 cc	550 cc	800 cc	1100 cc	1500 cc	-		
Housing	OM1					OM2	-		

\* Performance achieved in optimal working conditions (4,0 - 4,5 bar, 23 deg. C)

## Membrane measurements



## Application

The RO membranes are used in both household and industrial surroundings. In case of the latter, the exemplary industrial applications are:

- food production,
- power industry,
- beverage production,
- dairy industry,
- chemical companies,
- pharmaceuticals.

## Certification



No.: HK/W/0796/01/2017