

# Q-WATER



## Reverse Osmosis Systems

**Reverse Osmosis** is a separation process that uses pressure to force a solution through a membrane that retains the solute on one side and allows the pure solvent to pass to the other side.

Reverse Osmosis removes contaminants that can be in the water supply. Such as lead, mercury, copper, arsenic, iron, rust, algae, chlorine, atrazine and cadmium.

The membrane used for reverse osmosis is semi permeable, meaning it allows the passage of solvent but not of solute. This process requires that a high pressure be exerted on the high concentration side of the membrane. This process is best known for its use in desalination (removing the salt from sea water to get fresh water), but it has also been used to purify fresh water for medical, industrial and domestic applications since the early 1970s.

Around the world, household drinking water purification systems, including a reverse osmosis step, are commonly used for improving water for drinking and cooking. Such systems typically include a number of steps:

- A sediment filter to trap particles including rust and calcium carbonate.
- An activated carbon filter to trap organic chemicals and chlorine.
- A reverse osmosis (RO) filter which is a thin film composite membrane (TFM or TFC).
- A second carbon filter to capture those chemicals not removed by the RO membrane.
- A ultra-violet lamp is used for disinfection of any microbes that may escape filtering by the reverse osmosis membrane.

### 5 Stage Reverse Osmosis System

In order to make tap water drinkable in most countries a minimum of 5 stage filtration is needed.

The CK 5 Stage Reverse Osmosis System is our most popular system that uses the latest Reverse Osmosis technology. It is the best value for money system available today.

The system includes:

- Pre Filter
- Carbon Filter.
- Sediment Filter.
- Post Carbon Filter to remove any remaining odours.
- Reverse Osmosis Membrane.
- Booster Pump improving effectiveness of system and reducing the amount of water wasted in the process.
- 12 Litre water storage tank.
- Quick fit filters that ensure the system stays contamination free throughout its life.



### Also available in our range:

UV Lamps - Normally fitted as a 6th stage to above system to remove bacteria.

5 stage Reverse Osmosis systems without the booster pump.

3 Stage Filter Systems

Consists of prefilter, carbon Filter and sediment filter

Does not include RO membrane, booster pump and water storage tank

Counter Top & Stand Alone Hot and Cold Reverse Osmosis Systems

Doc. En1

*For more information*

**Telephone: 26910555**

**Fax: 26945600**

**Email: [info@qwatercyprus.com](mailto:info@qwatercyprus.com) Web: [www.qwatercyprus.com](http://www.qwatercyprus.com) Address: Mesoyi Industrial Estate No. 15, Paphos**