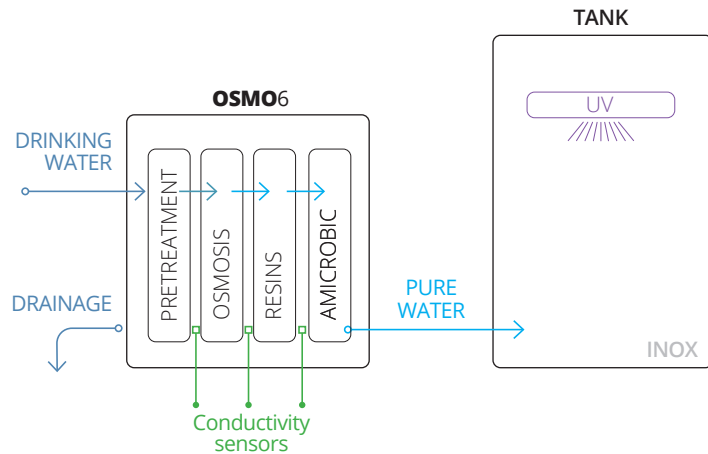


# OSMO6

## Professional reverse osmosis and deionisation unit



### Technical concept:

Osmo6 is specifically designed for seminal doses production in boar studs. Produces Pure Water Type II (ASTM) from drinkable water.

The resistivity of pure water produced is  $\geq 5 \text{ M}\Omega \cdot \text{cm}$  at  $25^\circ\text{C}$ . Pure water meets or exceeds quality standards of ASTM, CAP, CLSI and ISO 3696 / BS 3997.

Osmo6 water purifies the tap water by the following sequential process:

- Pretreatment through 5 micron filtration cartridge, and Granulated Activated Carbon Cartridges.
- Reverse osmosis.
- Water deionization using Mixed bed resins.
- Final sterilization with amicrobic filter  $< 0,1 \mu\text{m}$ .

### Monitoring

Continuous monitoring of the purification process parameters:

- Real number of working hours of the equipment.
- Feed water conductivity ( $\pm 1 \mu\text{S/cm}$ ).
- Osmotic water conductivity ( $\pm 1 \mu\text{S/cm}$ ).
- Performance of the reverse osmosis module ( $\pm 0,1 \%$ ).
- Conductivity of the produced Type II water ( $\pm 0,1 \mu\text{S/cm}$ ).
- Status of the equipment (producing/full tank/ dispensing).

### Advantages

- It has a reverse osmosis membrane of 10 litres per hour (optional 20 l / h membrane.)
- Easy assembly of the housing, to access the filters without difficulty and facilitate their replacement.
- Instant reading of conductivity.
- Simple and inexpensive maintenance.
- Connection through an RS232 serial port.
- Automatic shutdown in case of power failure or lack of water.
- The device alerts about the need to replace consumables.
- Automatic operation.
- Stainless steel tank with level sensor and ultraviolet lamp (Optional)



### TECHNICAL SPECIFICATIONS

Dimensions:	290 x 530 x 520 mm
Weight:	15 Kg
Power requirement:	220V 50-60 Hz
Power consumption:	50 W
Conduct. of water produced:	$< 0,2 \mu\text{S/cm}$
Production capacity:	$> 10 \text{ L/ Hour}$
Inlet pressure water:	1 - 4 bar
Inlet water max. conductivity:	$< 1500 \mu\text{S/cm}$ ( $< 800 \text{ ppm TDS}$ )
Inlet water maximum hardness:	$30^\circ\text{F}$
Inlet water maximum SDI:	$\leq 5$
	(Silt density index)

### What does Osmo 6 include?

Osmo6 incorporates all the necessary pieces for its set-up from the moment of installation:

- Set of 5 granulated activated carbon pretreatment cartridges.
- Reverse osmosis membrane. Standard model includes 10l/h membrane. Optional 20l/h membrane.
- Set of 5 mixed bed resin cartridges.
- An UF amicrobic cartridge UF <0.1 µm.
- Electrical and water connectors.

### What spare parts does Osmo6 need?

Osmo 6 monitors in real time a range of parameters such as actual working hours and conductivity to verify the status of the equipment. Programmed alarms warn of the need to change cartridges to ensure correct water processing.



#### Pretreatment cartridges

- Set of 5 units.
- Change every 1800 hours of work or 1 year.



31 x 22 x 15 cm



#### Resin cartridges

- Set of 5 units.
- Change according to water quality. Approx twice a year.

#### Amicrobic cartridge

- Set of 1 unit.
- Change at the same time as the resin ones.



31 x 22 x 15 cm



#### Reverse osmosis membrane

- 1 unit.
- Approximately every 3600 hours of work, depending on the quality of the water.

### About the optional tank

Osmo6 produces high quality water that must be stored under requirements that do not alter its purity until it is necessary to use it. For this reason, Magapor recommends a storage in a stainless steel tank with submerged ultraviolet. The pack offered by Magapor includes:

- Stainless steel tank of 50, 100, 150, 200, 300 or 400 liters.
- Water inlet and outlet connectors.
- Tank level buoy and connection to Osmo6.
- Ultraviolet lamp with quartz cover.