



## *Reverse Osmosis*

Drop Kiosidis reverse osmosis is the ideal solution for high conductivity water treatment to produce water suitable for drinking, irrigation or any other desired use. Typically, the produced water is used in applications such as foodservice, hotels, hospitals, irrigation, low-pressure boilers, foods, medicines, cosmetics, car washes, etc.

The membranes used are low-pressure membranes, so that the operating costs are significantly reduced in order for the desired result to be achieved. The operation of the machine becomes possible through a CONTROLLER, which makes the necessary checks for its safe and automatic operation.

### *Mechanical Equipment Elements*

- Positive displacement pump
- Low and high-pressure switches,
- Pre-filtration with a suspended solids filter and an activated carbon filter
- 4" low-pressure membranes in fiberglass-reinforced plastic cases,
- Conductivity sensor
- Flow regulating valves,
- Flow meters for concentrate and permeate,
- Controller for a safe and automatic operation
- Single-phase operation 230V



### OPERATION PARAMETERS

MIN/MAX OPERATING PRESSURE	3 / 5 bars
MAX TEMPERATURE	37 °C
TOTAL DISSOLVED SOLIDS	<2000
IRON AND MANGANESE	<0.1 ppm
SDI 15	<3 ppm
ORGANIC SUBSTANCES	<3 ppm
FREE CHLORINE	<0.1 ppm
DISPOSAL %	99.10%



MODEL	RO 125	RO 250	RO 500	RO 750	RO 1000
PERMEATE FLOW at 15 °C and 500 ppm (L/h)	125	250	500	750	1000
FLOW RATE CONCENTRATE (L/h)	42	84	168	250	333
SUPPLY (L/h)	167	334	668	1000	1333
PERCENTAGE OF RECOVERY	75%	75%	75%	75%	75%
NUMBER OF MEMBRANES	1	1	2	3	4
NORMAL OPERATING PRESSURE (bar)	12	12	12	12	12
PERMEATE PRESSURE (bar)	0.5	0.5	0.5	0.5	0.5
POWER (kW)	1	1	1	2.2	2.2
ELECTRICAL POWER SUPPLY	1 phase	1 phase	1 phase	1 phase	1 phase
DIMENSIONS (mm)					
LENGTH	830	830	830	920	920
WIDTH	480	480	480	520	520
HEIGHT	1700	1700	1700	1600	1600