OSMO LAB UPW 3

LABORATORY DEIONIZER

PURE WATER (TYPE II)

QUALITY STANDARD

ISO 3696	grade 2
ASTM	Type II
NCCLS (with anti-bacteria filter final)	Type II
EP/USP(with anti-bacteria filter final)	conform

CONDUCTIVITY' EL. SPEC.25°C	0,1-1 µS/cm
RESISTIVITY EL. SPEC.25°C	10-18,2 MOhm.cm

A complete water purification system indispensable in any laboratory

Thanks to the possibility of delivering two types of water at the same time, OSMO LAB UPW 3 is an increasingly indispensable tool for most needs in small and medium-sized analysis laboratories.

Careful use of space

In modern laboratories the spaces available are increasingly reduced; for this reason OSMO LAB UPW 3 can be easily housed in places that are not very accessible (inside furniture, hanging on the wall, ancillary rooms). The user will have the pressurized accumulation tank available on the workbench, with a water reserve of 8-9 liters net, on which there are 2 dispensers for the differentiated withdrawal of purified or pure grade II water. It is also possible to optionally connect 2 or more storage tanks even far from each other, OSMO LAB UPW 3 will manage them automatically anyway.

High quality water with low production costs

OSMO LAB UPW 3 is able to produce demineralized water with a degree of purity much higher than the minimum standards required for GRADE II, while maintaining very low production costs: in fact, OSMO LAB UPW 3 is fed directly from the aqueduct network without normally special pre-treatments; the purified water for auxiliary laboratory uses is produced only with the reverse osmosis method (without consumable materials for demineralization), while the pure GRADE II water is obtained with 2 different types of resins with a high degree of purity that allow high performance demineralization from the beginning to the end of their cycle.
The quality of the water produced is monitored using a digital conductivity meter, with a visual alarm of both purified and demineralized water with alarms that indicate the need to replace the ion exchange resins or the membrane.

2 TYPES OF WATER ALWAYS AVAILABLE:

- purified water for technical uses
- pure water GRADE II (conf. ISO 3696)

4 STAGES OF PURIFICATIONS

- sediment microfilter
- reverse osmosis
- resin pure 1 e ultra pure 2
- anti-bacteria micro filter 47 mm (optional)

DIGITAL MONITORING OF PRODUCED WATER

- Conductivity water produced
- Alarm for change resins and membrane RO

Feed water requirements

- TDS	max	500 ppm
- HD	max	30 °F
- Iron	max	100 ppb
- Manganese	max	5 ppb
- chlor	max	0,1 ppm
- Tot. Bacteria	max	5 UFC/ml
- SDI	<	5

TECHNICAL FEATURES

- HOURLY PRODUCTION	lt/h	8-10
- DAILY PRODUCTION	lt	max 100 demi max a 200 putified
- Min feed pressure	bar	1,5
- Max fees pressure	bar	4,0
- Max operative pressure	bar	6,0
- Range of temp.of water to be treated	°C	5-35
- Hydraulic connection	IN	pipe PE 6/4
	OUT	pipe PE 6/4
	DRAIN	pipe PE 6/4
- ELECTRIC POWER	V	220 ac / 24 ac

APPLICATIONS

HPLC Cromatography

Spettrofotometric analisys in atomic absorbance

Preparation/dilution of reagents

Colorimetric and qualitative analisys

Feed of ultra-pure water systems, autoclaves,ecc.

Feed of glassware-washers

Feed of steam generator

Feed of ultrasonic system, thermostatic baths

Optionals

Storage tank lt 25, 50, 100 in PE HD
Pressure storage tank additional

Housing for micro-filter membranes 47 mm 0,2mcr

Disposable bags lt 1,5 for demineralized water

Dimensions

Demineralizer stage	Le	57 cm
	De	22 cm
	He	42 cm
Serb. acc.	Le	27 cm
	De	25 cm
	He	51 cm
Package weight		17 kg