RO 30 EL-TS

DEMINERALIZZER FOR LABORATORY AND INDUSTRY

INDUSTRIAL LINE

APPLICATIONS

EL-TS BASE VERSION

Feeding of glass items washers
Feeding of steam generators
Feeding of thermostatic baths
Feeding of ultra-pure water systems
Autoclaves, boilers in general
INDUSTRIAL USES

EL-TS DEMI VERSION

Generalised laboratory uses
Glass works rinsing
Reagents preparation/dilution
Colorimetric and qualitative analyses
Feeding of thermostatic baths
INDUSTRIAL USES

TS DEMI 2 VERSION

HPLC chromatography
Reagents preparation/dilution
Colorimetric and qualitative analyses
Spectro-phot. Analysis atomic absorption
INDUSTRIAL USES
As described for the DEMI version

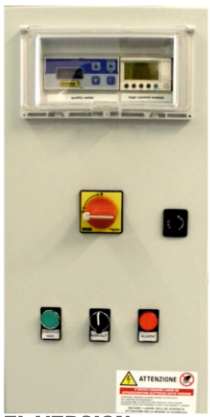
Quality, technology, versatility

The RO 30 demineralizer is designed to produce deionized water with a high degree of purity for technical uses. The production costs of deionized water are reduced by up to 50% compared to normal resin deionizers, thanks to the use of high-quality reverse osmosis modules with high salt rejection (> 99%, operating pressure 10-16 bar). All the devices are mounted on a stainless steel frame and can be paneled on request. The water obtained can be considered excellent not only from the saline point of view but also from the organic aspect. RO 30 can adapt to the purity needs of the user, thanks to 3 versions with different degrees of purity and the possibility of regulating the conductivity of the output water as desired (optional). RO 30 is managed by an electronic control unit made in an IP 55 container, with PLC technology, both for the sequence and for the self-diagnosis of the operating phases, and is able to directly control all the functions of the appliance: management of the overpressure pump and solenoid valve, in-line detection of the conductivity of the water produced, with a digitally operated and readable conductivity meter, possibility of manual or automatic operation with 2 level sensors in the accumulation tank (minimum and maximum), or finally production in timed cycles (TS version only).

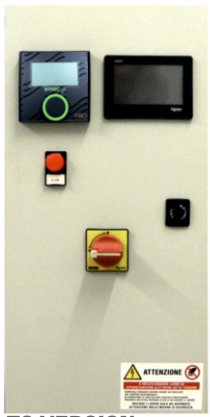
Alarms: water quality, machine block due to minimum network pressure, pump thermal block.

OPERATIONAL CHARACTERISTICS OF THE ELECTRONIC CONTROL PANEL

	EL	TS
Management of basic operating functions (load, overpressure pump)	*V*	*V*
Operatives functions MAN e AUTO	*V*	*V*
Operative function TIMER		*V*
Function flux membranes programmable OPT.	*V*	*V*
IN-LINE check of water quality	*V*	*V*
Water quality remote control with analog signal		*V*
Water quality remote control with MODBUS signal		*V*
Remote control of other parameters for. (different. alarms, funct. variables.)OPT.		*V*
General alarm signal remote control - clean contact OPT.	*V*	*V*
Display of operating function messages on LCD display	*V*	
Display of operating function messages on TOUCH SCREEN		*V*



EL VERSION



TS VERSION

TECHINCAL FEATURES

- HOURLY FLOW	lt/h	30
- DAILY PRODUCTION	lt	300-400
- min. feed pressure	bar	2,5
- max feed pressure	bar	4,5
- temperature of water to be treated	°C	5-35
- hidraulic connection	IN	pipe PE 10
	OUT	pipe PE 6
	DRAIN	pipe PE 8
- operative pressure RO elements	bar	14-15
- electric power	V	220 ac

QUALITY STANDARD

- **Base version** purified water (usually El.Spec.Conducivity 5-20 mcrS/cm produced only with reverse osmosis system.

- **Demi version** conform ISO 3696: grade 3
conform ASTM: Type 4
conform NCCLS: Type 3

Typical El. Spec. Conducivity: 0,2-3 microS/cm

- **Demi 2 version** conform ISO 3696: grade 2
conform ASTM: Type 2
conform NCCLS: Type 2

Typical El. Spec. Conducivity: 0,1-1 microS/cm
Typical El. Spec. Resistivity: 10 MOhm.cm

TECHINCAL SPECIFICATIONS WATER TO BE TREATED

maximum permissible values

TDS	ppm	300
Total Hardness	°F	30
Iron	ppb	100
Manganese	ppb	5
Chlor	ppm	0,1
SDI		<5
Total bacteria	UFC/ml	<5

It may still be necessary to dose liquid antiscal at the discretion of the manufacturer

DIMENSIONS

Length	cm 53
Width	cm 64
Height	cm 137

OPTIONAL ACCESSORIES

1 - Function Flow meter, managed directly by the PLC, to archieve precision fill. The external signal is provided by a pulse-counter teflon; starting the machine is in manual. The setting of the volume is easly adjustable with or without a pc.

2 - Storage tank in PE HD internal or external. with anti-dust system, whose water level is regulated by N°2 magnetic sensors, a maximum (block) and a minimum (restart production). Third sensor can be installed to indicate a level below the minimum due to il being accidental implantation.