RO 400 EL

DEMINERALIZATOR FOR INDUSTRIAL USES



APPLICATIONS

BASE VERSION

- Food industry
- Fine chemical Industry (detergent)
- Agriculture. Preparing water poor of salt
- Industrial laundries
- Autoclaves, boilers in general
- Industrial uses preparation of process water

BiOs VERSION

- Pharmaceutical industry
- Galvanic industry
- Rinse raw product in general
- Rinse glassware and opticla lenses
- Preparation industrial reagents
- Industrial uses preparation of process water

BiOs-Edi VERSION

- Electronic Industry
- Fine galvanic industria
- Production chemical reagents for laboratory
- Medical industry
- Industrial uses prep. water of process
- As indicated for version BiOs

Quality and technology at the service of industries.

The demineralizer **RO 400** is designed to produce deionized water of high purity for industrial technical uses. The high technology applied and the excellent quality of the components guarantee reliability and durability.

Three versions to suit every need.

RO 400 is produced in three versions to meet every need of pure water in modern industry:

BASE VERSION - Produced water with single shift to **Reverse Osmosis**. The quality of the membranes used ensures a maximum reduction of 99%, a project with average recovery of 40-50%. The water produced may be defined **PURIFIED WATER.**

BIOS version - Produced water with double shift to **Reverse Osmosis (Bi osmosis)**. After the first pass the water is stored in a tank where it performs a series of instrumental controls, to then be sent automatically to the second passage. This system guarantees a maximum reduction of 99.5% with an average recovery of 40-45%. The water produced is usually complies with the requirements of **European Pharmacopoeia (EU)**.

El. Spec. conductivity. typical: 0.8-4.2 microS/cm

system. cEDI (Continuous electrodeionization) is an innovative system which consists in passing the water through ion exchange resins, while a controlled electric current operates a continuous regeneration of the resins themselves, so that these do not undergo a progressive depletion with the need to periodic replacement. The result is demineralized water with high degree of purity and extremely low operating costs. In reference to the common standards of purity, the water produced can be judged to conform to **ISO 3696 grade 2**. El. Spec. resistivity at 25 ° C - 10-18 MOhm.cm

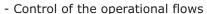


Automation and control.

All versions of **RO 400** are equipped with an **electronic control unit to the PLC** interfaced with the PC (in TS models is also present a TOUCH SCREEN panel), that manages all the operating steps and functional checks and in particular:



- Manual operation
- Automatic operation
 - Filling of a storage tank with 2 level sensors (min and max)
 - Fill up the volume (through an integrated flow meter optional)
- Control of the ON-line water quality by means of digital instruments
 - Quality of produced water (standard on all models)
 - Water Quality first stage (standard on BIOS and BIOS versions EDI)
 - PH water first stage (standard on BIOS-EDI version)
 - Feed water quality (optional)



- Integrated Magnetics gauges in the control PLC (standard on BIOS-EDI version)
- Mechanical direct reading flowmeters (standard on BASIC and BIOS versions)



- Low-pressure feed water with automatic block for lack of water
- Maximum operating pressure with automatic lock (std on BiOS and BiOS versions EDI)
- Feed water pressure transducer with analog (std on BIOS-EDI version)
- Operating pressures analog transducer (std on BIOS-EDI version)
- Feed water and operating pressure with mechanical gauges (Standard on BASIC and BIOS versions).



- red flashing light and dedicated message on the display PLC or TS



TECHNICAL FEATURES				
- HOURLY PRODUCTION	lt/h	400		
- DAILY PRODUCTION	lt	4000-5000		
- min. feed pressure	bar	2,5		
- max.feed pressure	bar	4,5		
- temperature of water to be treated	°C	5-35		
- hidraulic connection	IN	tubo 1"1/2		
	OUT	tubo 1/2"		
	DRAIN	tubo 1/2"		
- operative pressure RO elements	bar	7-9		
- electric power	V	220-380 ac		

TECHN	CAL SPECIFIC	CATION OF W	ATER FEE	D
max permiss	ible values			
TDS		ppr	n	500
Total Hard	ness	°F		30
Iron		ppr	m	0,1
Manganes	е	ppl)	5
Chlor		ppi	n	0,1
SDI				<5
Total bact	eria cessary to dose liquid antisc		C/ml manufacturer	<5
DIMENS	IONS			
	V.BASE	V.BiOS	V.BiOs-E	EDI
Lenght	cm 95	cm 250	cm 250	
Width	cm 83	cm 120	cm 120	
Height	cm 130	cm 140	cm 140	