Did you hesitate before replacing this... with this? / Millipore.

MILLIPORE
gives you an objective presentation of Elix.

Compare for yourselves!

PARAMETERS	Demineralisation	Distillation	Elix
Resistivity (Mohm-cm)	>5	0.1 - 0.5 (Single) 0.5 - 2 (Double)	Typically 10 to 15
Organic contamination	100 - 1000	25 - 100	<30
Microbial contamination (cfu/ml)	100 - 1000	<1	<1
Water quality versus time	Variable	Variable	Constant
Electrical consumption (W/h)	–	1,500 - 10,000	50
Drawbacks inherent in the technology	Regular regeneration of resins Release of organic matter Particulate contamination Bacterial proliferation	Scaling Time-consuming maintenance High water and electricity consumption	–
Quality control	Approximate, imprecise resistivity indicator	None	Measurement of resistivity by temperature-compensated coaxial cell
Display of operating parameters	None	None	Very complete: Input/output resistivity % ionic rejection Feedwater temperature Operating pressure
Maintenance and alarms	None	None	Display of maintenance operations required Malfunction error messages
System upgrade	Limited	Impossible	Upgradeability built into design

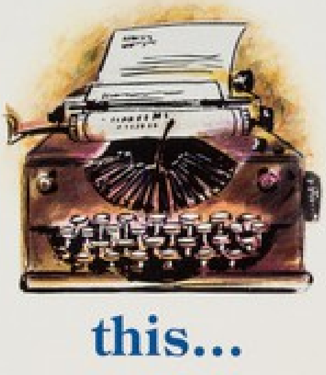
Desiguan/BBDO

Find out about Elix technology, simply return the enclosed reply-card!

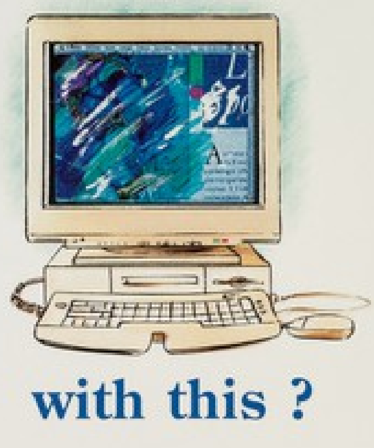
MILLIPORE

18-11-96

Did you hesitate before replacing



this...



with this ?

Then would you hesitate before replacing

Deionisation Cylinders

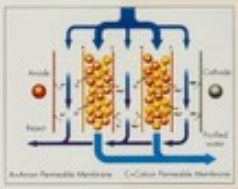
Still

Elix system

this... with this ?

In 4 out of 5 cases, purified laboratory water is not pure enough or costs too much.

However, water is vital in everyday laboratory applications. Aware of this problem, the Millipore research teams have developed a new water purification technique: continuous electro-deionisation. Unmatched value for money, outstanding simplicity... discover all the potential benefits for your laboratory.



Electro-deionisation: the key to constant quality.

In this new process, the acid/base regeneration of conventional ion exchange systems is eliminated. The water is purified as it passes through resins which are continuously regenerated by the effect of an electric field.

This process consumes only small quantities of water and energy and requires no specific maintenance or chemical regeneration, which is a source of resin deterioration.

With Elix, you will have control of the ionic, organic and microbial purity of your water.

Which water quality standards does it meet?

The purified water produced complies with and exceeds the specifications of ISO standard 3696 Type II and the Aqua Purificata definition of the European and American pharmacopoeia.

The quality of ELIX water

- Resistivity: Typically 10 to 15 Mohm-cm (for feed water CO_2 concentration <20 ppm)
- T.O.C. ≤30 ppb

One water system for many applications

Water purified by the Elix systems is the ideal alternative in applications for which you currently use distilled or de-ionised water.

- **Preparation of culture media**
- **Preparation of buffers, chemical and biochemical reagents**
- **Final rinsing of glassware**
- **Feeding ultrapure water systems e.g. Milli-Q**
- **Hydroponic cultures, etc.**
- **Feedwater for laboratory instruments: Weathering chambers, humidifiers, autoclaves, hydrogen generators, etc.**

THE STRENGTHS OF THE ELIX TECHNOLOGY

- **No interruption of water production because of exhausted resins:**
  With Elix the resins are continuously regenerated.
- **Lower running costs and virtually no maintenance:**
  No need to descale your still or replace ion-exchange resins.
- **Safe, clean, constant water quality:**
  No chemical regeneration, no variation of quality with the seasons or resin exhaustion.
- **Water efficiency 6 times greater than distillation and energy consumption 200 times lower than a twin distiller:**
  With Elix you will reduce your annual running costs by up to 50%, saving 75% of water costs and 97% of electricity costs. (Calculation based on comparison of Elix 3 and 4 kW/hr still, both producing 32 l/day, 230 days/yr where recovery rates are 15% and 5% respectively, including of electricity, water and cartridge costs).

Attention: Elix technology is unique to Millipore and is only incorporated into Millipore's Elix and Milli-RX systems.