

**Waters Corporation introduces flow-injection tandem mass spectrometry (FIA-MS/MS) system**

The need for dried blood spot analysis in clinical laboratories is growing annually. Scientists require more sample throughput capabilities to meet this demand. The bench-top system builds on the robustness and reliability that scientists have come to expect from Waters, allowing them to have the highest level of confidence in their results.

The RenataDX Screening System also offers the flexibility laboratories require to adjust to their needs. With the ability to run any suitable FIA-MS/MS laboratory developed test or ready to use reagent kit, scientists



are not locked in to a prescriptive workflow. It incorporates the high-performance combination of the Xevo™ TQD IVD Mass Spectrometer, the ACQUITY™ UPLC™ I-Class IVD Binary Solvent Manager, and the 3777C IVD Sample Manager.

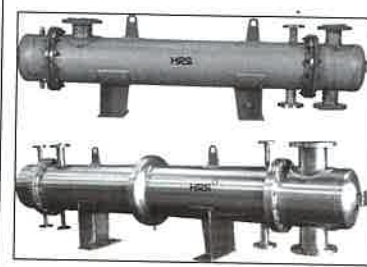
Driven by the combination of MassLynx (IVD) and IonLynx™ Application Manager Software, data is streamlined and seamlessly integrated into laboratory workflows, allowing scientists to get their data in real time. The IonLynx Application Manager leverages Waters' twenty years of experience processing FIA-MS/MS data, to present clinical scientists with a familiar, yet robust and reliable diagnostically-proven informatics tool. The RenataDX Screening System is manufactured as an U.S. FDA Class I medical device and is CE Marked to the European Directive 98/79/EC (IVDD).

**For more details contact:**

Dayamani Santosh  
Sr Admin Officer  
Tel: 080-49292200-03, 080-49292204, 9632786899  
Web: www.waters.com  
Email: dayamani\_santosh@waters.com

**HRS ECOFLUX\* Corrugated Tube Heat Exchanger**

The high demand for heat transfer equipments in industries like chemical, pharmaceutical, agro-chemical, petrochemical, oil & fats, fertilizer, food and beverages, engineering and others is driving the advancement in heat transfer technology. Heating, cooling, chilling, condensing, re-boiling, pasteurizing, sterilizing, evaporating are the key processes in these industries. To carry out such processes effectively, heat exchanger becomes heart of the process plant.



HRS has introduced the innovative development in heat transfer technology i.e. ECOFLUX\* corrugated tube heat exchanger, which is a shell and tube heat exchanger where "corrugated tubes" are used instead of plain tubes. The tubes are corrugated to induce turbulence in both the flows (product and service) even at lower velocity. Corrugated tubes thus, boosts heat transfer multifold even at low Reynold's number with minimum increase in pressure loss. This enables ECOFLUX\* CTHE an efficient heat transfer even in liquids with high viscosity, large fibers or particulates.

ECOFLUX\* corrugated tube heat exchangers are compact in yet give significantly enhanced performance over smooth tube heat exchanger. ECOFLUX\* can be customized according to the process needs with wide choice of MOC. This requires very low maintenance cost and also gives high response to CIP.

The MOC of this heat exchanger is typically SS, however, It is also made in exotic materials like SS304L, SS316L, 904L, 321, Titanium, Duplex, Hastelloy, Alloy 20, Copper depending upon compatibility of process fluids.

Thus this proves to be a versatile, economical and energy efficient equipment for multiple options in process industries.

**For more details contact:**

Nikhil  
Marketing & Corporate Communications  
HRS Process Systems Ltd.  
Ph. : +91-20-2566 3581/ 6604 7894 & 95  
Email : mktcom@hrsasia.co.in , Web: www.hrsasia.co.in

**Vacunair's Flux Supply and Recovery Unit**

The flux recovery is based on vacuum conveying system. The additional flux supplied to the welding point will be recovered with use of vacuum conveying and will be stored at recycle flux storage vessel. The dusty air will pass through the reverse pulse jet type filter cleaning arrangement and clean air will be exhaust of to the atmosphere.

The recycle flux will be reconditioned with the help of 3 stage flux conditioning unit. The first stage will remove the large slugs particles collected during the suction. The second stage will remove the magnetic particles from the collected flux. The third and final stage will remove the dust particles from the collected flux.

The collected flux will be mixed with new flux through flux management system. They provide two types of flux management system, one is one-by-one timer control system and other one is online flow control mixing system.



In one-by-one timer control system, the new flux and recycled flux will be mixed with the help of set-up timers which can be set in the HMI panel. This mixing ratio can be varied from 20% to 50% new flux to the recycle flux with the use of time control system. In this system, first we will allow to collect recycle flux, then after new flux. Such cycle can be repeated depending on the requirements.

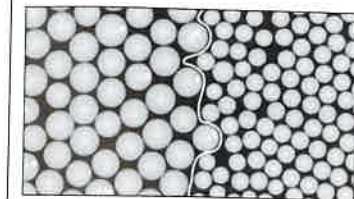
**For more details:**

Vacunair Engineering Co Pvt Ltd  
Ahmedabad  
Tel: +91792290771  
Email: info@vacunair.com  
Web: vacunair.com

**Environment friendly brine purification units - Lanxess**

The new generation of well-established finely dispersed Lewatit ion exchange resins from LANXESS has proven its worth in practice: Lewatit MDS resins significantly increase the efficiency of brine treatment in chlor-alkali electrolysis using the membrane method. They make an effective contribution to preventing damage to the latest generation of ion exchange membranes used for electrolysis, which are becoming more and more sensitive, thus prolonging their service life and reducing the energy costs of the process.

In the electrochemical process of chlor-alkali electrolysis, sodium hydroxide, chlorine gas, and hydrogen are produced from a highly concentrated saline solution (brine) – these are important basic chemicals for the production of PVC, paper, cellulose, disinfectants, and bleach, for example. The membrane method was developed for this purpose in the 1970s. It can be run efficiently and safely, offers energy savings of around 25 percent compared to other processes and does not require mercury or asbestos. Due to these and other advantages, it has been used for more than two decades



for all new plants and older plants are increasingly being converted to the membrane method. Since impurities can irreversibly damage the cost-intensive fluorinated ion exchange membranes used in electrolysis, the brine is finely purified using ion exchangers.

With the particularly fine monodisperse, macroporous chelating resins of the Lewatit MDS series, brine purification in chlor-alkali electrolysis using the membrane method can be made much more efficient. The decisive difference between the new resin types and those previously offered is the bead diameter. This is only 390 µm for the MDS types (Mono Disperse Small, such as Lewatit MDS TP 208) and is thus around 40 percent smaller than for the Lewatit MonoPlus TP 208, which is also monodisperse. As a result of this difference, the MDS types are characterized by improved kinetics, a higher degree of regeneration and a significantly increased total and operating capacity especially for alkaline earth cations. They have optimal mechanical and osmotic stability. Barium and strontium ions are separated particularly efficiently from the brine.

The new resin types are already being used successfully on an industrial scale.

**For more details contact:**

Ilona Kawan  
LANXESS AG  
Tel: +49 221 8885-1684  
E-Mail: ilona.kawan@lanxess.com