

# QUALITY DESIGNS.



**QUALITY WORKS.**

**LANXESS**  
Energizing Chemistry

## LewaPlus® – a Versatile and Handy Ion Exchange Engineering Tool

The **LewaPlus®** design software is unique in ion exchange industry, since it offers not only the possibility to treat one stream after another (one-dimensional) but to design complex treatment systems (two-dimensional) with different technologies. It allows designing ion exchange (IX), reverse osmosis (RO), and ultrafiltration (UF) systems with a variety of system configurations, including special processes and technologies available only with **Lewatit®** resins.

### At a glance

License costs	None
Platform compatibility	Windows
Available languages	10
Technologies	Ion exchange, ultrafiltration, reverse osmosis
Major functionalities	Projection of combined processes, cost calculation for IX and RO, possibility of RO permeate and concentrate post-treatment, cross-reference tool for IX resins
Available documents	Technical data sheets, material safety data sheets, technical service bulletins
Target groups	OEMs, end users, consultants, etc.
Users	> 6,000
Countries of use	> 100

### Key features

With the current **LewaPlus®** version, it is possible to design ion exchange systems – just by “drag and drop” the user can place the selected technology in the requested position in the process flow sheet. The software offers the possibility to further treat the feed and/or the product stream of the selected processes.

The latest addition to **LewaPlus®** is an IX demineralization module for the food industry. It enables plant designers and operators to design and check ion exchange systems intended for refining food and beverage ingredients. Different processes under varying conditions are modeled in a flexible and comprehensive way. For that purpose, the new module includes a feed analysis input that contains parameters unique to the processing of food and beverage ingredients. The regeneration sequence calculation model has also been fitted to the needs of the industry.

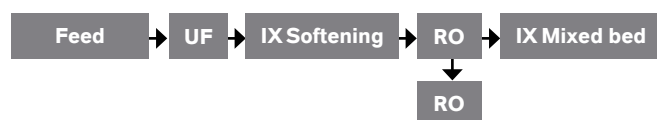
With this new module **LewaPlus®** is opening up to specialized ion exchange applications in addition to the already widely used water treatment plant designs.

## Available technologies

Ion exchange:	<ul style="list-style-type: none"> <li>■ Water demineralization</li> <li>■ Food and beverage ingredients demineralization</li> <li>■ Softening and dealcalization</li> <li>■ IX system check</li> <li>■ Condensate polishing</li> </ul>
Reverse osmosis:	<ul style="list-style-type: none"> <li>■ Brackish water and seawater application</li> </ul>
Ultrafiltration:	<ul style="list-style-type: none"> <li>■ RO pretreatment</li> <li>■ Brackish water treatment</li> </ul>

Overall, the software provides a high degree of design flexibility that, together with unique features, makes the designing process easier and more efficient. Additionally, quick and reliable calculation results performed by **LewaPlus®** are valuable advantages of this software.

## Example of a combined process



In addition to making a projection, the software includes detailed information required to create a projection, such as a product guide and a cross-reference tool, in order to find the right products for your application. Furthermore, the complete set of technical data sheets and, wherever required, the most up-to-date material safety data sheets for all **Lewatit®** products – as well as technical service bulletins – are directly accessible in the software. Since **LewaPlus®** offers the possibility to store other documents in the library, too, it becomes a versatile tool for design and documentation of ion exchange systems. Projections can conveniently be exported from **LewaPlus®** into exchange files. These files can be shared with our technical experts who will be able to help you with questions regarding your projections.

## How to get LewaPlus®

Get your free license today! Go to our website and download the latest software version by following the link:  
<https://lanxess.com/en/Products-and-Brands/Brands/Lewatit/LewaPlus-Software>

**We are happy to support your business. Please contact us for additional information: visit [www.lewatit.com](http://www.lewatit.com)**

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Energizing Chemistry

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