

# QUALITY DESIGNS.



**QUALITY WORKS.**

**LANXESS**  
Energizing Chemistry

## LewaPlus® – Water System Engineering in More than One Dimension

The **LewaPlus®** design software is unique in the water treatment industry, since it offers not only the possibility to treat one stream after the other (one dimensional) but to design complex treatment systems (two dimensional) with different technologies. It allows for the planning of ion exchange resin (IX), reverse osmosis (RO), and ultrafiltration (UF) systems under a variety of system configurations.

### At a glance

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

### Key features

With the new **LewaPlus®** version, it is possible to design water treatment systems – just by drag and drop and moving the selected technologies to the requested position. In the case of RO treatment, it offers the possibility to treat the feed, the permeate, and the concentrate. Therefore a complex water system can be created. With a single water analysis entry the whole system can be calculated because the projected water analysis is seamlessly transferred to the next treatment step.

The software offers a high degree of design flexibility and features that no other water system design software offers. This is, for example, the closed-circuit reverse osmosis system, which can be used to achieve a high recovery rate in a closed loop process. For the IX module, the condensate polishing has the most advanced tool, to include different

**LewaPlus®**

ways to alkalize the process water. In addition to the design, the ultrafiltration module offers information about the backwash and maintenance cleaning, including the consumption of chemicals.

Overall, the extremely quick and reliable calculation results of LewaPlus® are special advantages of our software.

In addition to making a projection, the software includes details of the 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 technical set of data sheets and, wherever required, the material safety data sheets for all Lewatit® and Lewabrane® products – as well as the technical service bulletins – are directly accessible in the software. Since LewaPlus® has the possibility to save other documents in the library, too, it can become the main tool for designing and documentation.

## Available technologies

<i>Reverse osmosis:</i>	<ul style="list-style-type: none"> <li>■ Brackish water and seawater application</li> <li>■ Closed-circuit reverse osmosis (CCRO™)</li> </ul>
<i>Ion exchange:</i>	<ul style="list-style-type: none"> <li>■ Demineralization</li> <li>■ Softening and dealkalization</li> <li>■ IX system check</li> <li>■ Condensate polishing</li> </ul>
<i>Ultrafiltration:</i>	<ul style="list-style-type: none"> <li>■ RO pretreatment</li> <li>■ Brackish water treatment</li> </ul>

## Example of a combined process



## PerforMem™ as service tool

Together with a good design the evaluation of the process is essential to ensure a good performance.

With the new tool PerforMem™ an easy validation of the RO process is possible. PerforMem™ normalizes your data provided in Excel or other formats in a few seconds. It is a separate program, which was developed to treat the amount of data collected in modern water treatment plants. Different possibilities to display the data can be selected, including the data of laboratory results. The help function in the program supports to find the reason of trouble and offers guidance.

A similar function for IX is available inside LewaPlus® as IX-system-check.

## How to get LewaPlus® and PerforMem™

Get your free license today! Go to our website and download the latest software version by following the link: [lewaplus.lpt.lanxess.com](http://lewaplus.lpt.lanxess.com)

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

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Energizing Chemistry

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