

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 planning of ion exchange resin (IX) and reverse osmosis (RO) systems under a variety of system configurations, including some unique process configurations only available with **Lewatit®** and **Lewabrane®** product technology.

At a glance

License costs	None
Platform compatibility	Windows, Linux, MAC OS X
Available languages	11
Technologies	Reverse osmosis, ion exchange
Major functionalities	Immediate calculation of system performance, hybrid pressure vessel configurations and split-partial 2-pass design, normalization tool, capital and operating-cost calculation module for RO
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 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 projected. With a single water analysis entry the whole system can be calculated since projected water analysis is seamlessly transferred to the next treatment step.

The software offers a high degree of design flexibility and features 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

LewaPlus®

closed loop process. For the IX module, the condensate polishing has the most advanced tool, to include different ways to alkalize the process water. 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 processes

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

Example of a combined process



We are happy to support your business. Please contact us for additional information: visit www.lpt.lanxess.com



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Customer feedback

The LewaPlus® software is more user-friendly, efficient, and visualized than others, which substantially helps us to project the performance of the system and optimize its design.

(David Gu, Manager Engineering Department, Shenzhen Yitai Water Treatment Ltd.)

I have been using the LewaPlus® IX and RO design package for the past couple of years and have found it to be well designed in scope, functionally logical, and easy to use. LewaPlus® is an invaluable tool set, which permits quick and straightforward calculations to design, verify, and/or modify separation processes.

(Phil D'Angelo, Independent Consulting Chemist, JoDAN Technologies Ltd.)

How to get LewaPlus®

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