



SYSTEM DESIGN ENERGIZED BY

LANXESS
Energizing Chemistry

LewaPlus[®]

COMBINED ENGINEERING TOOL FOR DIMENSIONING OF RO AND IX SYSTEMS

The **LewaPlus**[®] design software is unique in the water treatment industry. It is a free, comprehensive software design tool for ion exchange resin (IX) and reverse osmosis (RO) membrane systems. The RO permeate can be seamlessly transferred to the IX module for a quick and accurate design of the complete desalination system. Further, it allows for dimensioning of IX and RO systems under a variety of system configurations, including some unique process configurations only available with **Lewatit**[®] and **Lewabrane**[®] product technology.

Key features

LewaPlus[®] is not cloud-based, which makes the software also available offline and guarantees the highest data security. It doesn't just work with Windows, but is also compatible with Linux and Mac OS X. A portable software version that doesn't require any Windows administrative rights for installation is also available and offers full functionality. With its single water analysis entry screen, including RO scaling calculations, **LewaPlus**[®] is suitable for both IX and RO applications.

The software offers a high degree of design flexibility. Parameters can be widely modified and values outside the recommended borders are highlighted. Especially the extremely quick and reliable calculation results of **LewaPlus**[®] make the software advantageous to others. The comprehensive output of IX and RO system design parameters as well as the effluent (permeate quality) is available in a printed version and can easily be manipulated. The software is equipped with a product scout tool to allow a proper selection of the right resin or membrane type. Furthermore, a complete set

of technical data sheets and material safety data sheets (only IX) for all **Lewatit**[®] and **Lewabrane**[®] products as well as technical service bulletins are directly accessible in the software. Regular updates ensure that the software is kept up to date and further improve its functionality with new features. Finally, the software offers the possibility to exchange data between the user and the technical LANXESS experts for optimization and a final check of the calculation.

Available processes

<i>Reverse osmosis:</i>	■ Brackish & seawater application
<i>Ion exchange:</i>	■ (Mixed bed) demineralization
	■ Softening and dealkalization
	■ Calculation of current operating IX performance (demi check)
	■ Condensate polishing

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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.
User	> 6,000
Countries of use	> 100

Contact

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Customer feedback

The LewaPlus® software is more 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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<http://lewaplus.lpt.lanxess.com>

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

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