



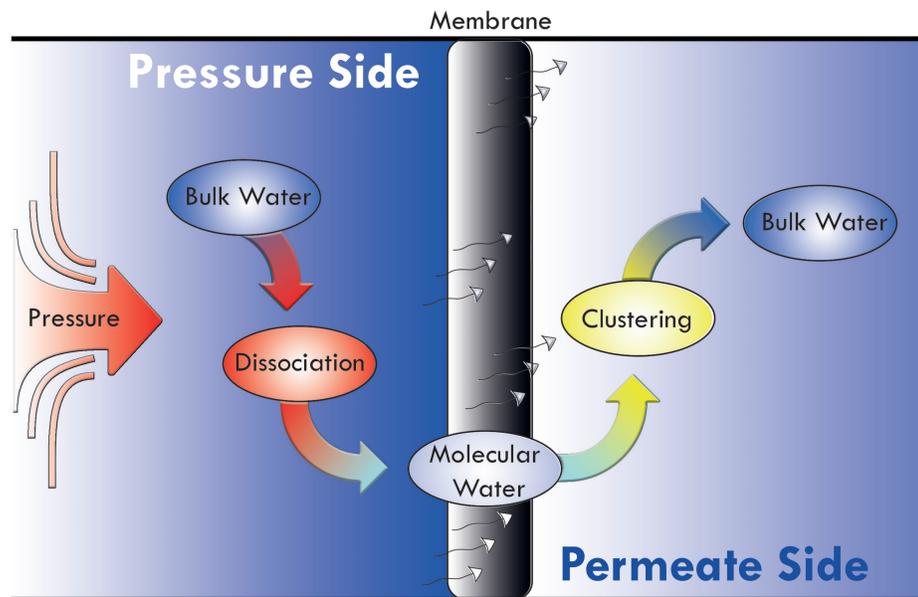
Catalytic Water Treatment with MOL[®] Technology

>> Stay Practical - Reduce Chemical <<



Filtration Process

On membrane surfaces the filtration process is accompanied by temporary changes of water structures.



This influences the chemical potential combined with precipitation reactions and scaling effects. In technical applications, the combination of conventional chemicals with a suitable heterogeneous catalyst is able to reduce the risk of performance decreasing deposits.

MOL[®] LIK Technology:

- Reducing scaling potential
- Minimizing risk of deposits
- Rising system performance

Up to now, typical applications for MOL[®] LIK are in the field of a quite stable water quality, like cooling applications and membrane plants.

The advantage of having the MOL[®] LIK technology in the INSPIREWATER project is twofold:

- For the EU & INSPIRE partners: Rising efficiency of conventional solutions with an eco-sustainable technology.
- For MOL[®] LIK: Having a chance for getting access to the market of water with higher variation changes (e.g. effluent water treatment)

Working Principle

At the pressure side, only the smallest water molecules are able to slip through the membranes. The installation of a MOL[®] LIK-catalyst is speeding up this process, as the thermodynamic equilibrium between water structures is achieved quicker. In this way the issues with deposits are minimized and the water can easier pass through membranes. Based on lab results made within the INSPIREWATER PROJECT, there is evidence that MOL[®] LIK is able to accelerate the achievement of the equilibrium between molecular and bulk water.

Your Contact

Get experts advice anytime:



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Customers Benefit

A catalyst for rising your system performance.



Reducing
chemical dosage

↓ 50 – 90 %



Minimizing
Maintenance
efforts

↓ 80 %



Optimizing
Energy demand

↓ 5 – 10 %



www.inspirewater.eu

