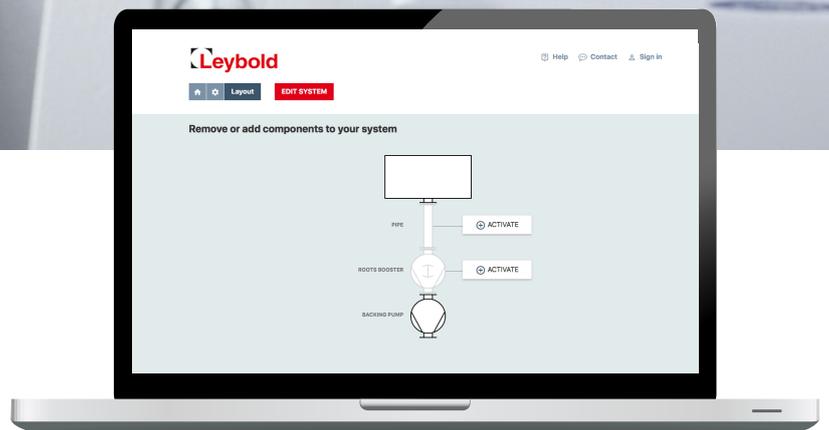
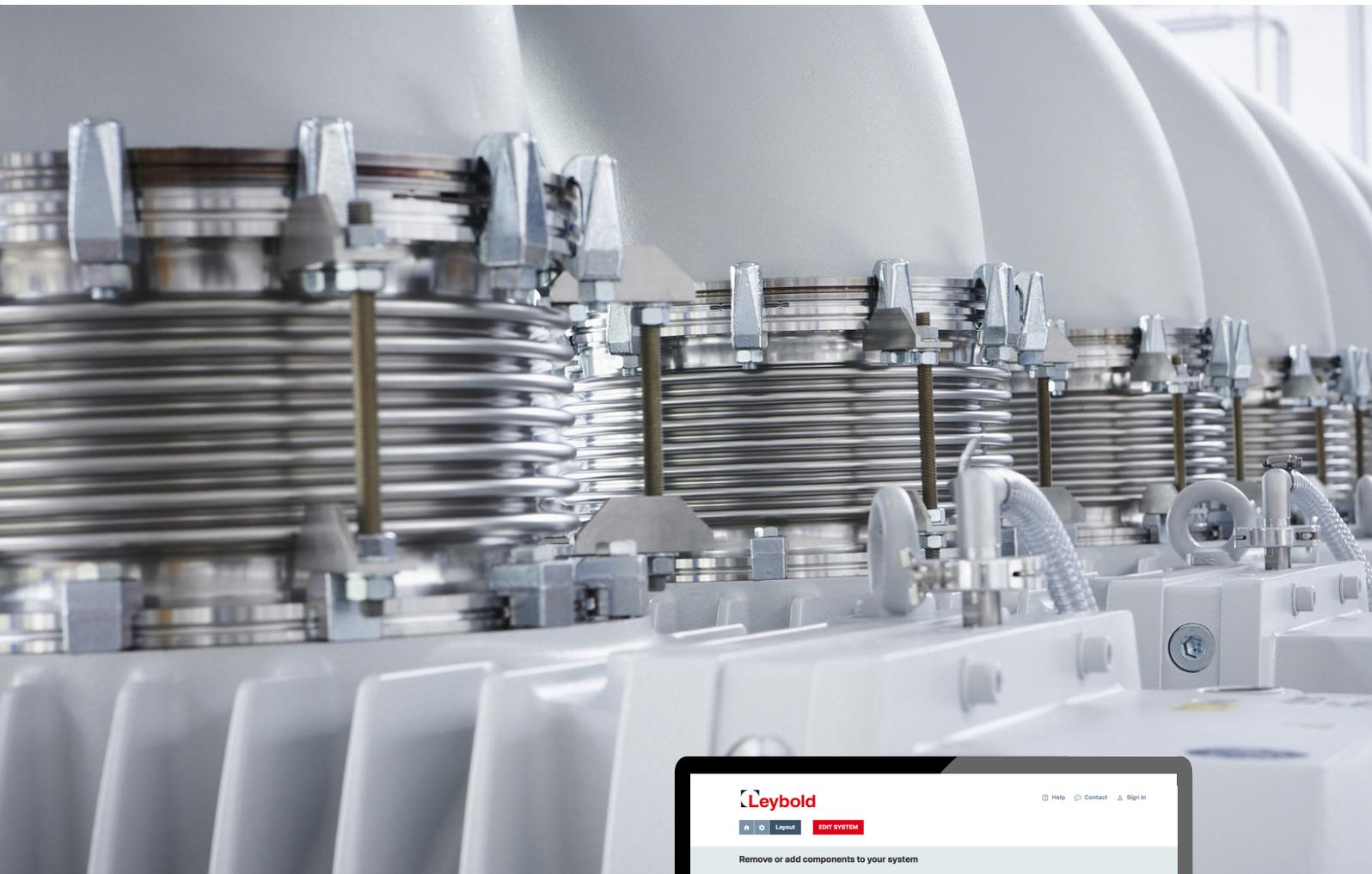




LEYCALC

Calculate Your Own Vacuum System



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The LEYCALC online calculator is the new tool for vacuum calculations anytime, from anywhere. It offers professional and detailed engineering of vacuum systems based on the same powerful algorithms as our Leybold expert tool. Vacuum systems can be designed and calculated for complex scenarios – fully independent and online via an easy and convenient user interface.

Vacuum calculations based on professionalism

LEYCALC allows to set up a complete vacuum system and adjust parameters such as chamber size, process gases, cycle times, pipe length and pressure values. You can do your calculation independently and get an initial idea of your systems vacuum performance. Once the parameters have been defined in the online tool, LEYCALC performs the calculation of your system and the results are immediately displayed.

Chose between a pump down curve and pumping speed curve:

Pump down curve: This shows exactly how long it takes to pump the gas out of the chamber to a defined pressure and how the pressure develops over time.

Pumping speed curve: Calculate the pumping speed curve of your pump system. This shows which pumping speed is provided at a certain pressure.

Access to calculation data

All calculation data is stored centrally and can be called up at any time and from any device once you have registered. Whenever you have questions or need advice on your system your calculation results can easily be shared with our Leybold specialists. This allows a detailed and professional discussion about your vacuum application.

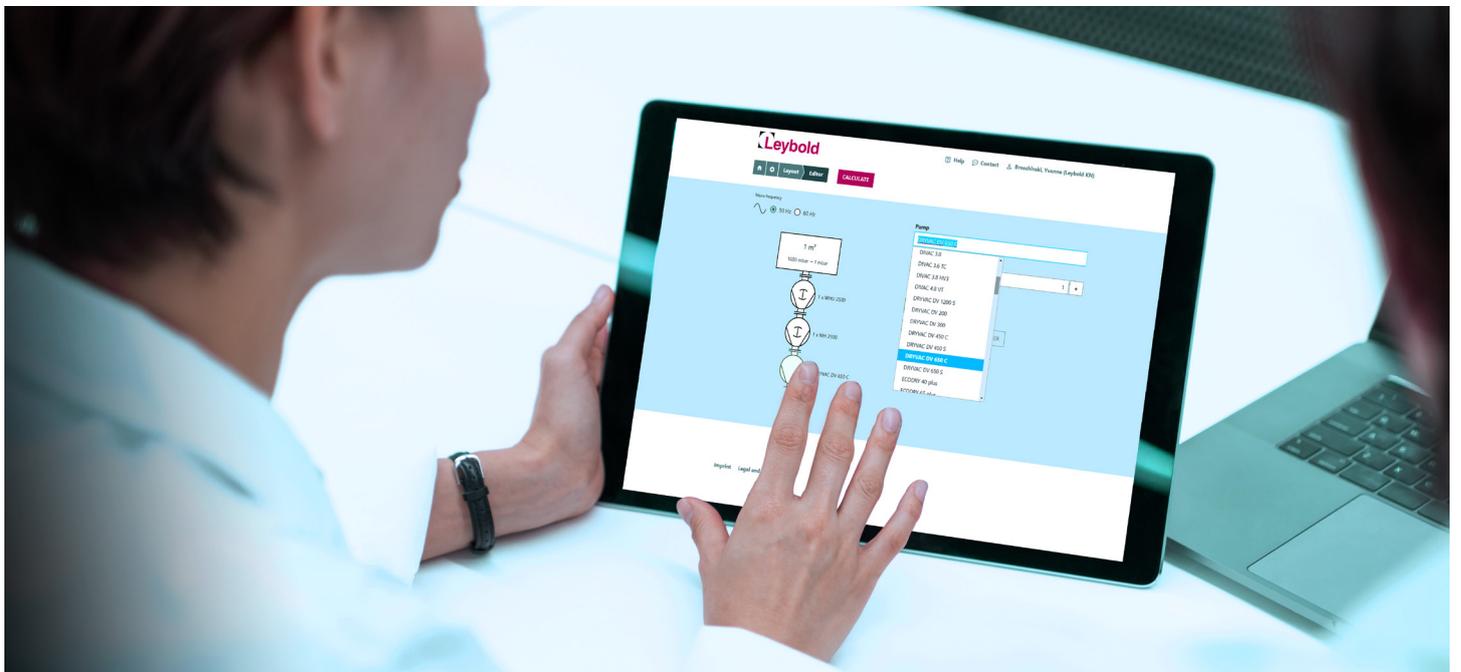
In addition to the chambers and pumps of a vacuum system, the different influ-

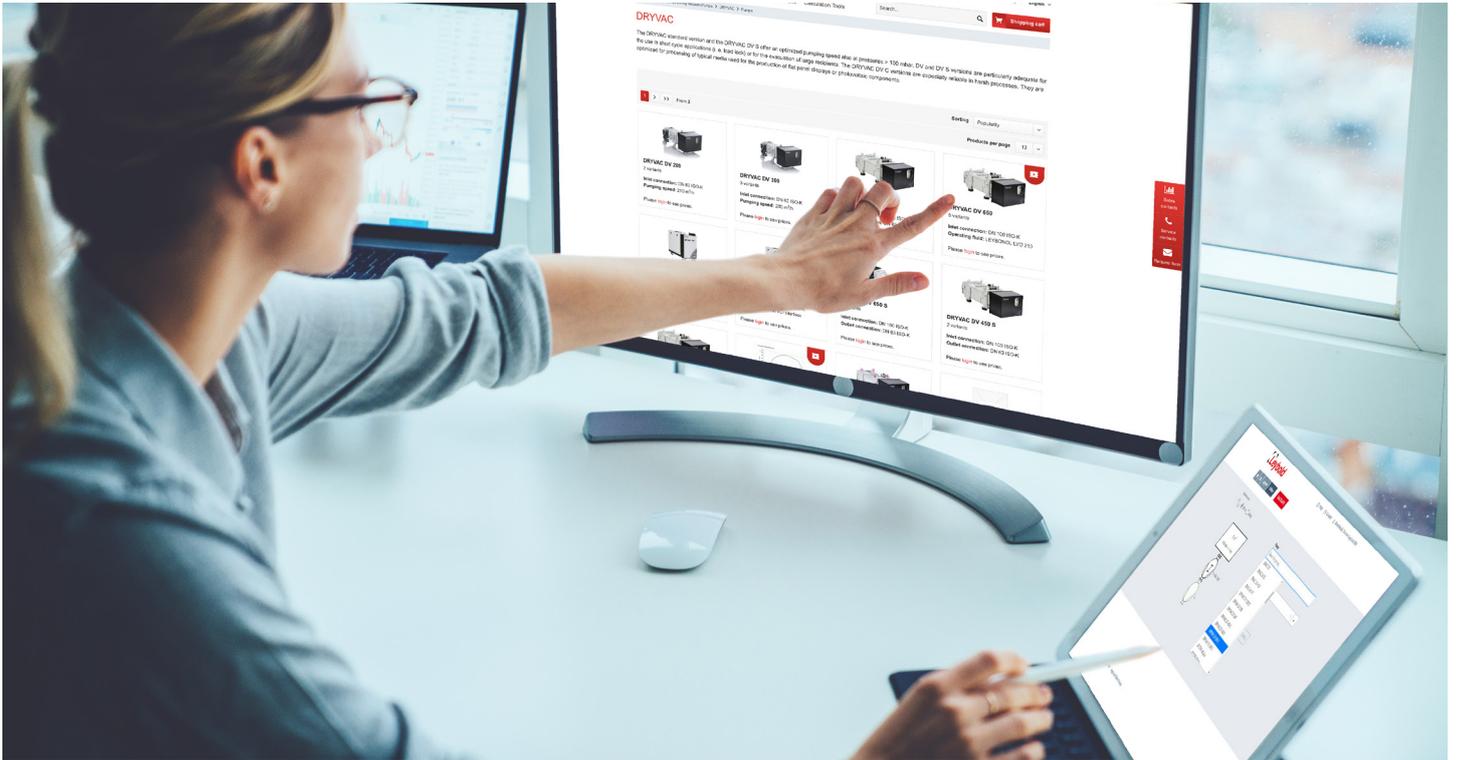
ences of pipelines are also considered. These include the conductance effects in all pressure ranges and flow regimes, blocking and the volume of the lines.

Basis of the new LEYCALC online tool is the professional expert calculation tool that our Leybold experts are using internally. Years of experience have led to intelligent algorithms for most accurate vacuum calculations. Be on the safe side and profit from a maximum experience and calculation accuracy!

Free Premium Access

	Guest	Free premium
Calculated total pumping speed	X	X
Calculated pump down time	X	X
Interactive diagrams		X
Save calculation projects		X
Export date		X





Profit from professional and accurate vacuum calculations

Take advantage from a more targeted and faster selection of the right solutions for your application:

- Online web-based tool makes your vacuum calculation easily accessible
 → **Do your calculation at any time from anywhere and enjoy fullest flexibility.**
- Easy and convenient systems set up allow to build up your virtual vacuum system with only a few clicks
 → **Save time and money on your systems set up and check your system's performance in a most accurate way**
- Quick change of all systems parameters make the influence of your systems changes visible immediately
 → **Save time by checking the impact of parameter changes virtually before building up your system**
- Various combinations of piping, chambers, pumps and its properties can easily be set up which gives you the full range of systems design
 → **Have highest flexibility and find the most efficient vacuum system design within seconds**
- Results are calculated immediately and can be displayed and downloaded for your quick and convenient vacuum check
 → **Don't wait for your results and save time by proceeding with your systems build up**
- Results are automatically saved for later and can easily be shared with our Leybold experts for your professional support
 → **Be on the safe side and get back to your calculations any time or discuss your system with one of our experts**



Get answers to your systems challenges anytime you want

Not happy with the performance of your build-up vacuum system?

Imagine your vacuum system does not perform as expected. Don't waste time with experiments on your vacuum system and searching for the one small connection that doesn't fit. Use LEYCALC to first check what the performance of your system should be – because in some cases, it becomes apparent that a pump with higher individual perfor-

mance would not improve the overall vacuum performance of your system because the reductions are caused by an incorrectly dimensioned pipeline. The diagram immediately shows that the pipe diameter needs to be increased.

Not sure which pump suits your needs better?

Design your vacuum system in LEYCALC and let it run with different pump types.

You can easily compare the pumping speed and pump down curves and choose the more efficient pump combination.

Have your requirements changed?

Simulate changes to your system within seconds and analyze the effects. Sometimes small changes can have a big impact and with LEYCALC it is now as easy as possible to identify them.



Why should you use it?

Using LEYCALC is as easy as it can be. Navigation through the web-based software solution is conveniently possible on all kinds of devices like tablets, smartphones or laptops. Sections in need of explanation are linked to more detailed background information on vacuum technique. Use the help button to find out more about the calculations and impact of the parameters on your system. Or use the contact button to reach out to us whenever you have questions, ideas or need a quick advice.

In future, LEYCALC will comprise the whole Leybold product portfolio, covering also high vacuum applications. With LEYCALC, we make our vacuum know-how collected over decades available to you!