

Leak Test Modules

The ultimate solution for high-quality acceptance tests

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Broad range from manual to in-line test stations

Your added value



Usage of the most suitable test method

Supporting your Leak Detection Requirements

At Pfeiffer Vacuum, we understand that the entire leak detection process can be complex and challenging for our customers. The consideration of how this fits into the overall, even more complex process is key for success. That is why we have expanded our portfolio of Leak Test Modules to increase the value proposition for our customers and provide a higher value chain solution.

Supporting new markets with expertise in leak detection

In very fast-emerging markets with high technical requirements, we support companies in developing the right process steps in the field of leak detection. We understand that time to market is essential, and our team of experts is dedicated to providing fast and efficient solutions to meet our customers' needs.

Flexible Leak Test Modules for any production needs


Through experience in leak detection and application support, our Leak Test Modules are based on the broad range of Pfeiffer Vacuum components and can be either utilized as manual test stations or integrated into larger production and assembly lines, based on the customer's production needs. For pre-series production, a manual test bench is often suitable, whereas high-volume series production requires an in-line test bench. With our experience of over 55 years, we are equipped to support our customers with mechanical and software integration.




Expertise in evaluating and establishing suitable leak detection processes



Highest quality acceptance tests and regulatory compliance



Easy integration into existing production lines



Broad expertise from mechanical design to software support



Fast and efficient solutions

Multiple test methods are available

For the realization of your (leak test) project you can choose from a wide range of test methods, such as all relevant tracer gas test methods (Helium, Hydrogen), OES (Optical Emission Spectroscopy), RGA (Residual Gas Analysis) or the conduction of a leak test with air (Micro-Flow/Mass-Extraction). This allows a maximum pressure of 50 bar to be achieved.

Seamless integration into existing production lines

We pride ourselves on providing project-based and customized solutions for our customers. Our Leak Test Modules are easy to integrate into existing production lines, with mechanical connections, electrical and PLC interfaces. This makes the installation process straightforward, ensuring that our customers can start testing right away.

Expertise you can trust

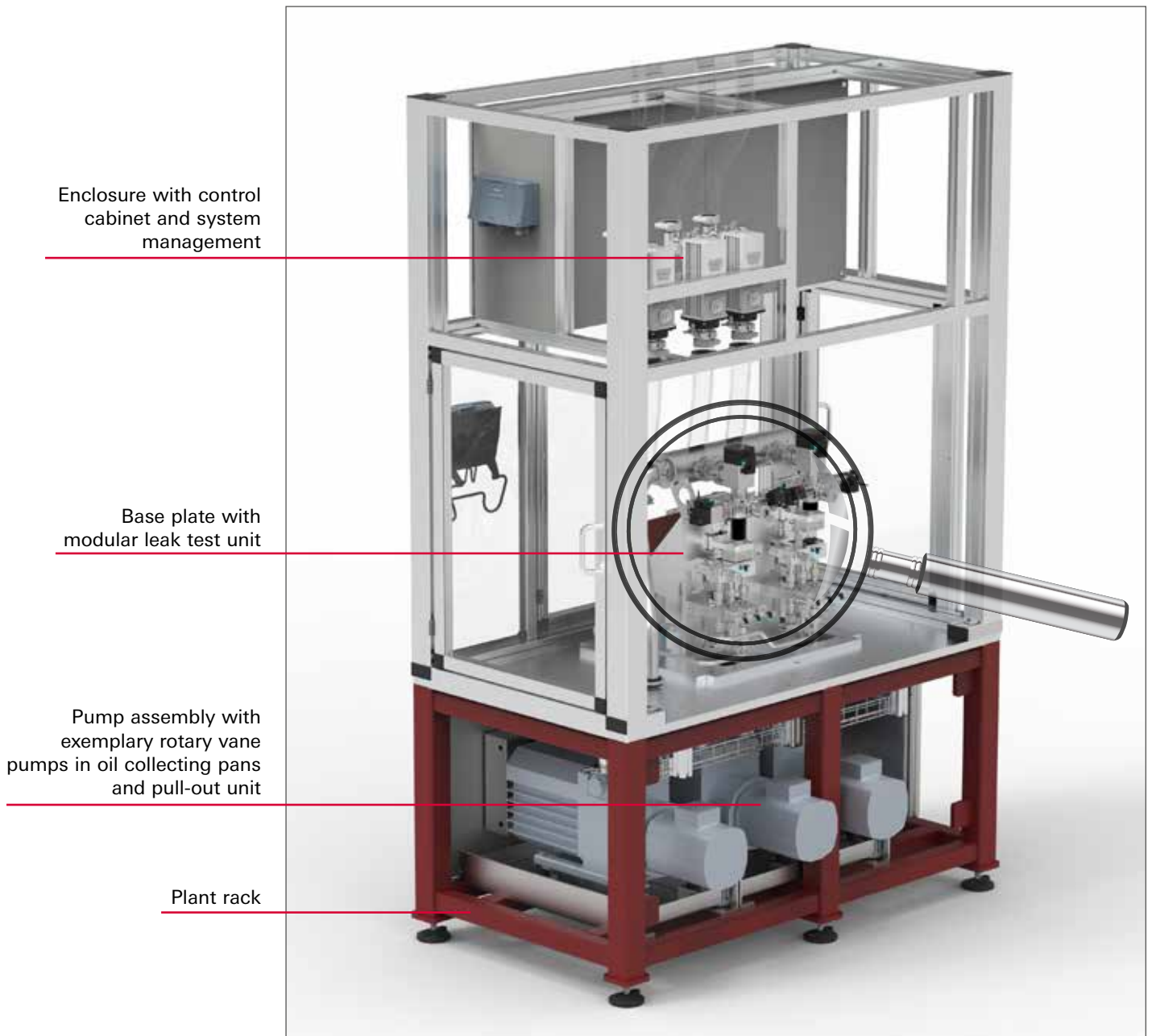
At Pfeiffer Vacuum we only focus on what we know best: evaluating and establishing the most suitable leak detection process. With our expertise, we can help you achieve best-in-class leak detection results.

Upgrade your acceptance tests

Investing in our Leak Test Modules ensures that your acceptance tests are of the highest quality and helping you meet regulatory requirements. Do not hesitate to contact us to learn more about how we can support your business and help you optimize your leak detection process.

Leak Test Modules

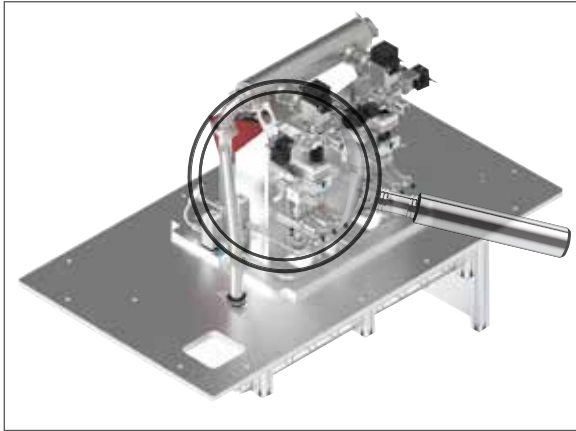
The ultimate solution for high-quality acceptance tests



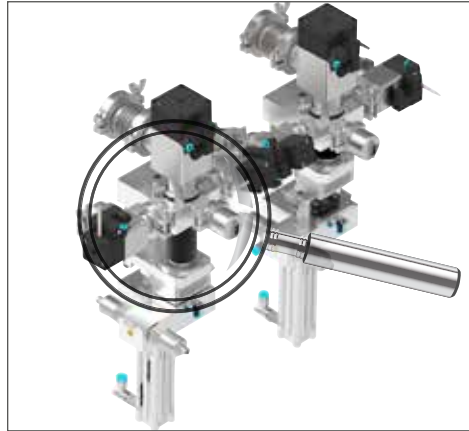
Leak test module

Our core competencies

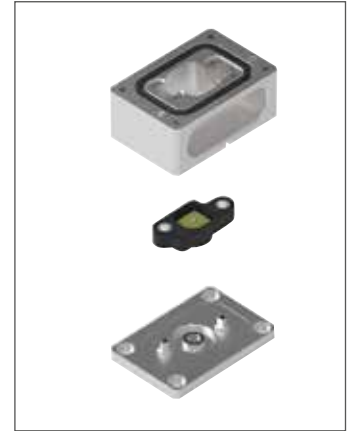
We only focus on our core competencies – evaluate and establish the most suitable leak detection process. Our experience as a former system provider enables us to support our customers in the best way.



Detail 1: Base plate with leak test unit

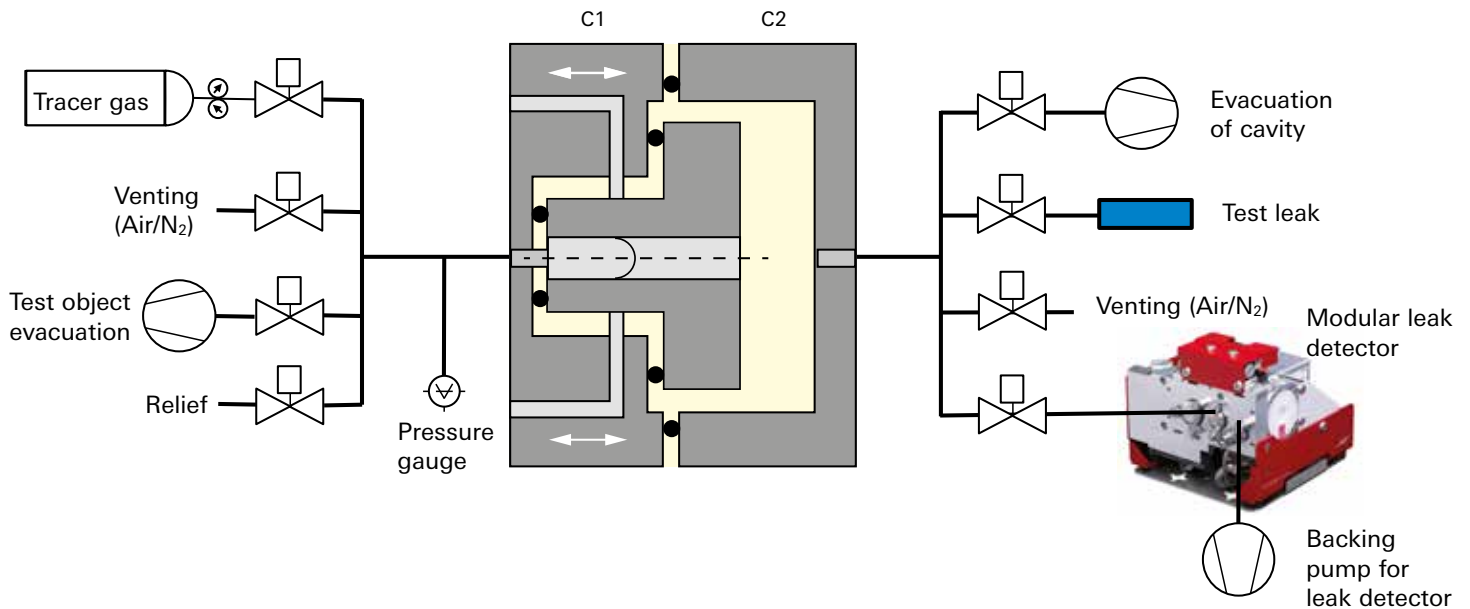


Detail 2: Test cavity(ies) with vacuum supply



Detail 3: Test specimen with cavity C1 and C2

Vacuum scheme



Sustainability

Our Leak Test Modules use energy-efficient components and advanced technologies that reduce waste and emissions. But not only the product itself contributes to minimize our environmental impact, our products are used in markets like fuel cell, battery, and heat pumps that are driving towards sustainability. These industries require highly reliable and precise leak detection solutions, and our Leak Test Modules help our customers optimize their leak detection processes, leading to less waste and more efficient use of resources in their production. By choosing Pfeiffer Vacuum's Leak Test Modules, our customers can contribute to a more sustainable future while achieving their business goals in these critical markets.



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Optimizing leak detection processes: From feasibility study to high-volume production



1. **Identify your needs:** Recognize that your valuable products require leak testing as part of new product development or quality control.



2. **Define your requirements:** Describe the requirements for a new system/product for leak testing.



3. **Feasibility study:** We will conduct a feasibility study to determine the suitability of your product for leak detection.



4. **Present possibilities:** We will present possibilities for testing, outlining the most effective methods for detecting leaks and provide you with a report on the leak detection process.



5. **Establish proof of concept:** We will establish proof of concept, including a rough design for the leak detection module.



6. **Develop your tool specification:** We will work with you to establish a tool specification that will meet your requirements.



7. **Design:** We will assign a project lead and team for your project, and in close collaboration with you, we will develop the tool design by considering legal and customer-specific machine guidelines.



8. **Assembly:** After you approve the tool design we will source the components and start mechanical and electrical assembly.



9. **Commissioning:** We will perform extensive commissioning of the tool and carry out a clear acceptance procedure to demonstrate functionality.



10. **Delivery:** Based on a successful acceptance test, we will deliver the tool (including documentation) to you.

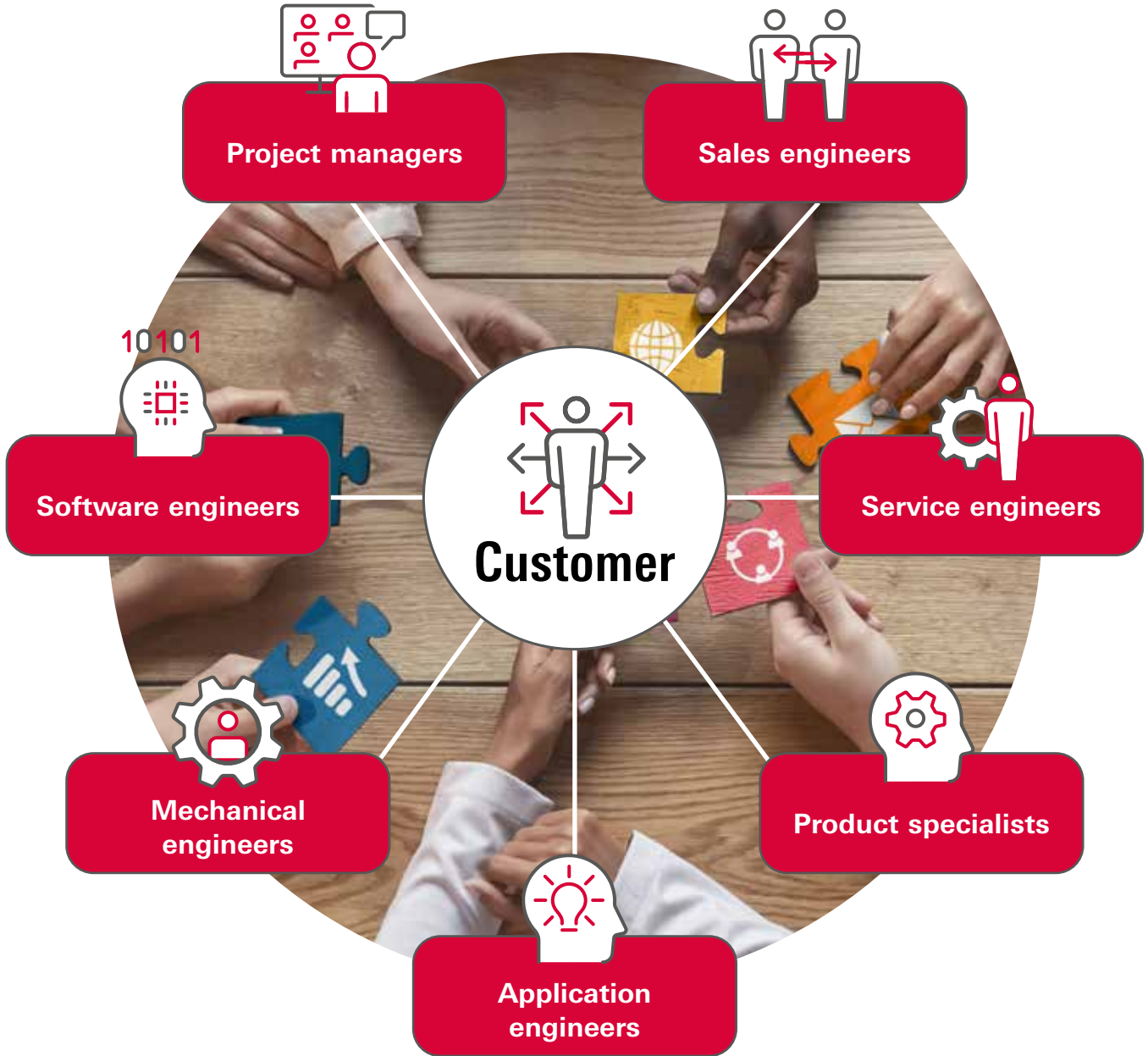


11. **Installation:** If desired, we can offer installation of the tool at your site, technical support, and training.



12. **Optimize the process:** We will work with you to optimize the process and ensure high machine availability through dedicated service activities.

Project team – our know-how to support your needs



Your Success. Our Passion.

We give our best for you every day –
worldwide!

Are you looking for your
optimized vacuum solution?
Please contact us:

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All information is subject to change without prior notice. PI 0555 PEN (April 2023/POD)

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