



# Custom engineered vacuum solutions

Engineering, designing, manufacturing and training — All from Pfeiffer Vacuum

The Pfeiffer Vacuum Indianapolis division has been building instruments and complete leak detection systems for over 25 years. With our expanded facility of over 35,000 sq./ft., in-house design and engineering expertise and decades of experience, we are very well positioned to help customers with their next custom vacuum system.

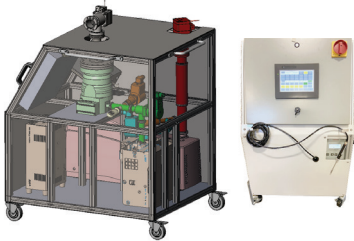
Pfeiffer Vacuum partners with customers to understand their vacuum needs and to provide them turnkey solutions. We build custom vacuum systems

that utilize Pfeiffer Vacuum's extensive range of vacuum products. This includes pumps, pressure gauges, RGAs and leak detectors. Additionally, with the acquisition of Nor-Cal Products, we offer a complete line of fittings, valves and custom chambers. To ensure system performance, we offer vacuum training and field service to enable our customers to focus on their core competency and not have to worry about vacuum system design.



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## Custom leak detection system



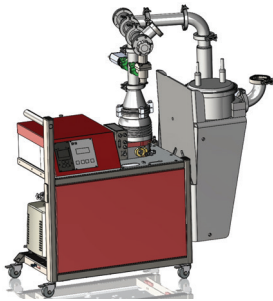
This leak detection system features a modular helium leak detector (ASI 35) to provide flexibility for high vacuum leak checking as well as sniffing. The vacuum system, comprised of a HiPace 300 turbopump and ACP 28 dry roughing pump, evacuates out a test sample to  $10^{-9}$  Torr very quickly, even with a large volume.

## Industrial mass spectrometer



This industrial gas mass spectrometer was developed for customers who require a more robust system than the standard units. With rugged wheels and welded tubular frame, this unit can be used reliably in industrial environments. Filters are integrated to the cooling fans, permitting the unit to operate in dusty environments. The mass spec design also offers easy access to internal components for preventative maintenance or repair.

## Vacuum system with LN<sub>2</sub> cold trap



For this customer application, a LN<sub>2</sub> cold trap was integrated onto the side of a standard high vacuum system. To automate the operations, a small electronic module was added to facilitate the pump-down sequence and proper system power-down.

## Chamber and vacuum system



We offer custom vacuum solutions by providing a robust platform to mount any kind of pumping system or chamber for a complete turnkey system. The package can accept any turbopump, roughing pump, dry multistage roots, or even scroll pump. Additionally, we can mount a gauge controller, gas dosing valve, RGA or any chamber that is specified. Various size and shaped chambers can also be mounted to meet customer specifications.

**These are just a few of the vacuum systems we have built for companies like yours.**

**Contact Pfeiffer Vacuum today and tell us about your custom engineered vacuum system requirements.**



Are you looking for a  
perfect vacuum solution?  
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