

AGILENT VACUUM PRODUCTS CATALOG



Agilent Technologies



Agilent Technologies is your vacuum resource: a one-stop, truly global vacuum supplier with complete solutions for **Academic Research, Instrumentation Manufacturers, Industrial Applications** and **Analytical Labs**.

Our objective is your success.

Equipped with highly developed technical skills and rich experience in the vacuum field, we incorporate your needs to develop unique products that are user friendly, easy to maintain, robust and durable, at a low cost of ownership to you.

We are committed to product and service quality, to respecting the environment, and to sustainable development. Our ISO 9001 and ISO 14001 certifications demonstrate that Agilent is a partner you can rely on.

Agilent knows vacuum. It has been our focus and core competence for more than 60 years during which we have introduced many key innovations, from the Ion Pump, ConFlat sealing technology, and High Speed Diffusion Pumps to ContraFlow Leak Detection, IDP-Series Dry Scroll Pumps and TwisTorr turbomolecular pumps.

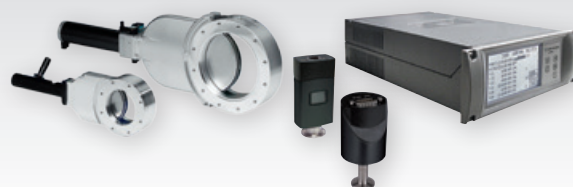
We seek the best solutions for your vacuum needs, and are pleased to offer you this catalog of more than 7,000 products that we stand behind with pride.



Powerful, precise, and easy to use, Agilent leak detectors are ideal for vacuum maintenance and diagnostics whether at first installation or during periodic inspections.



We continue to offer a wide range of vacuum valves, hardware, and measurement equipment to work with primary, high vacuum and ultra-high vacuum pumps in your application.



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Introduction



Turbo Pumps



Rotary Vane Pumps



Turbo Pumping Systems



Rough Vacuum Pumps



Leak Detection



High Capacity
Rotary Vane Pumps and
Roots Pumping Systems



Vacuum Measurement



Dry Scroll Pumps



Vacuum Valves



Diffusion Pumps



Vacuum Components



Ion Pumps



Training



AGILENT VACUUM MILESTONES

Agilent Vacuum: Technology Leadership

Agilent Vacuum Products Division, formerly Varian Vacuum, has always been in the forefront of vacuum technology, setting industry standards beginning with the invention of the ion pump that made UHV possible, through major developments in diffusion pump and leak detection technology and innovations in turbomolecular and dry scroll pumping, up to the most recent revolutionary TwisTorr FS turbo pump and IDP-15 dry scroll pump.

As Agilent/Varian is a pioneer in vacuum technology, many of our inventions, like the first ion pump created by Varian in the late '50s, have become standards in this industry. We continue to study and develop new solutions, partnering with our Customers and with the major Research Centers worldwide.



1930s

Varian brothers with physicist Bill Hansen create a prototype of the klystron, a radio vacuum tube central to radar technology.



1948

On April 20 Sigurd and Russell Varian with Bill Hansen establish Varian Associates, Inc.



1957-59

Varian Associates invents the first ion pump. The Vacuum Division becomes a separate business.



1961-65

ConFlat Flanges set the industry standard. Significant innovation in Diffusion pump technology markedly increases performance.



1966-67

A new Vacuum factory opens in Torino, Italy.



1971-1972

Acquisition of NRC plant in Lexington, MA. The Contra-Flow concept revolutionizes leak detection.



1983

The StarCell Ion Pump is developed, and the Ion Pump worldwide Center is established in Torino.



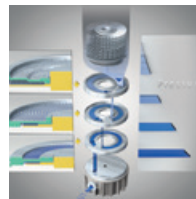
1986-90

Varian introduces Turbomolecular Pumps in collaboration with the Elettrovacua company.



1992

The revolutionary new portable Helitest Leak Detector is introduced, with numerous applications in non-vacuum industries.



1992-94

The innovative MacroTorr concept allows much higher (x100) foreline pressures in Turbo pumps. ISO 9001 Certification is completed.



1998

The TriScroll Dry Pumps are the only two stage scroll pumps on the market.



2001

Varian expands Torino facility with a third building, and completely renews the entire manufacturing site.

INTRODUCTION



2002-2004

New Turbo-V Navigator series, with electronics on-board, followed by the Turbo-V K-G series with integrated electronics embedded in the pump body. First "smart" Rotary Vane Pumps employ an innovative frequency inverter.



2005-2006

ISO 14001 Certification achieved. New VS Series leak detectors, and PHD-4 Portable Helium Detector.



2007-2008

The IDP-3 is the first 60 l/m scroll pump in the market. A new logistic warehouse completed the renovation of Torino plant.



2008

New TriScroll with Inverter technology. New XGS-600 Gauge Controller.



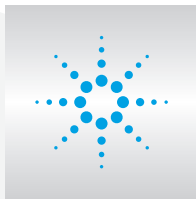
2009-2010

Innovative line of TPS Turbo Pumping Systems. New High Capacity MS Rotary Vane Pumps and RPS Roots Pumping Systems, for demanding industrial vacuum applications.



2010

The New Molecular-Drag Technology: TwisTorr Turbo Pumps offer unmatched vacuum performance in terms of pumping speed, compression ratio, compact size.



2010

Varian becomes a part of Agilent Technologies, a global technology leader in chemical analysis, life sciences, diagnostics and applied markets.



2011

The new 4-UHV is the first true 4-channel Ion Pump Controller for Ultra High Vacuum.



2012

Agilent expands its offer for industrial rough vacuum acquiring PVR. The plant in Valmadrera, Italy becomes the manufacturing site of Agilent Large RVP and Rough Vacuum Pumps.



2013

Agilent introduces the state-of-the-art IDP-15 dry Scroll Pump, the quietest on the market.



2013

The breakthrough TwisTorr 304 FS with Floating Suspension marks another milestone in Agilent's history of innovation in Vacuum.



2014

Vacuum and Leak Detection manufacturing starts in the Agilent facility in Penang, Malaysia.



2015

The TwisTorr 84 FS provides high reliability, superior vacuum performance, low noise and vibration, stability over time and low cost of ownership.



2015

Agilent introduces the new TPS Turbo Pumping Systems line, fully integrated vacuum solutions now backed by the breakthrough TwisTorr FS technology.

VACUUM APPLICATIONS

Agilent Technologies thrives on supporting its customers in a variety of applications in many technological fields or disciplines. These include, but are not limited to:

Industrial Vacuum and Leak Detection Solutions

- Petrochemical
- Pharmaceutical
- Vacuum heat treatment
- Automotive
- Energy

Thin Film Deposition and Semiconductor Vacuum

- Surface coating
- Magnetic data storage
- Silicon semiconductor
- Compound semiconductor

Typical operating pressure (mbar)

> 1

> 10⁻²

10⁻² – 10⁻⁶

1 – 10⁻⁸

10⁻³ – 10⁻⁸



Instrumentation Manufacturers

- Mass spectrometers
- Electron microscopes
- Surface analysis
- Medical accelerators

Academia, Government and Labs

- Universities
- Scientific research laboratories
- Particle Accelerators and Synchrotrons
- Analytical Labs
- Space simulation

1 – 10⁻⁸

10⁻⁶ – 10⁻¹⁰

10⁻² – 10⁻¹¹



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- Agilent Offices
- ▲ Agilent Partners
- Service Hubs



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Fax: +662 744 7668
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- ▲ **Tramat Co Ltd, Hanoi**
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- ▲ **Tramat Co Ltd, Ho Chi Minh City**
6B Nguyen Canh Chang Street
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Tel: +84 8 3920 1452/3
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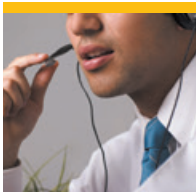
Other Countries

- **Agilent Technologies Singapore Pte Ltd.**
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Singapore 768923
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Fax: +65 6754 0574
Toll free: 1 800 2762622



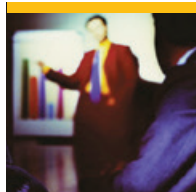
AGILENT CUSTOMER SUPPORT PROGRAMS

As a world-class company, we are committed to excellence in customer support as a means to enhance the value of our products for our customers and to lower total cost of ownership. Our support strategy is based on the following fundamentals:



Telephone Hotlines

Our toll free hotlines provide you with the easiest live front-end support. Our native language customer service and technical support representatives will assist you with order information, backlog management, return authorization, pricing and delivery, and with product technical data, literature fulfillment and troubleshooting.



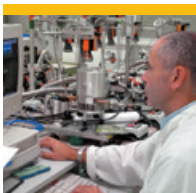
Vacuum Training Programs

Agilent's highly regarded training program is staffed by dedicated professionals with expertise and experience in a broad range of vacuum and leak detection technologies. Courses are offered worldwide at convenient regional and customer locations.



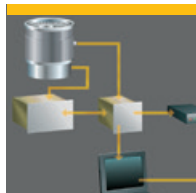
On-site Service

On-site support is available for Leak Detectors and Large Rotary Vane Pumps.



Qualified Staff

We back our global commitment with continuous attention to professional development and personal motivation for our staff. You expect proficiency in customer care, and we deliver it.



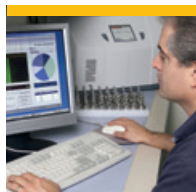
World-Class Quality

Conformance to procedures designed for global customer support allows us to satisfy the most demanding requirements. This is complemented by our continuous improvement and escalation processes.



web

- Agilent website provides you immediate access to comprehensive product, application and support information www.agilent.com/chem/vacuum
- Agilent online store, lets you experience the power of purchasing made easy, with faster page loading, quicker transaction process, optimized search capabilities, and a user-friendly interface www.agilent.com/chem/store
- Agilent Vacuum-Choice gives you access to current special offers, promotions and news on vacuum products www.vacuum-choice.com



Applications Support

To meet your most demanding vacuum requirements, our experienced applications engineering team helps you find dedicated solutions, tailored to your specific technical needs.



Worldwide Parts Sourcing Plan Three Progressive Levels of Support

Agilent offers three convenient Service Programs to help you maximize your productivity:



Focus on What You Do Best

Take the advantage of Agilent Vacuum Service in your region.



Repair Centers

Agilent Vacuum has manufacturing plants in North America (Lexington, MA), Europe (Torino and Valmadrera, Italy) and Asia (Penang, Malaysia), and a network of Regional Repair Centers located in US, Europe, India, China and Singapore.

These Repair Centers :

- are authorized service providers and use only genuine Agilent parts
- are guaranteed to have the latest equipment procedures and upgrades
- repair your equipment rapidly at predictable repair costs