

Agilent VacIon Plus 75 Pump

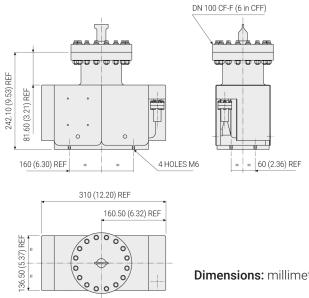


Product description

The Agilent Vacion Plus 75 pump is a 75 L/s ion pump used in ultrahigh and extreme high vacuum applications in academic and high-energy physics (HEP) research. It delivers increased pumping speed in the same compact size as other Vacion Plus medium ion pumps, ideal for large chamber applications that require greater pumping speed. The patented StarCell element delivers best-in-class pumping speeds for noble gases and hydrogen, and the highest capacity for methane, argon, and helium. Options such as optical baffles, integral heaters, and high-voltage (HV) feedthroughs are available for easy system integration.

Features and benefits

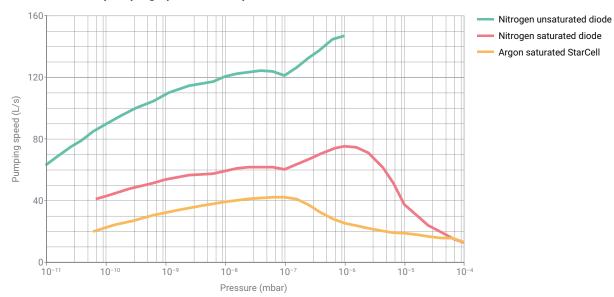
- Select from StarCell, diode, and noble diode elements to provide the best pumping speed for different gases
- Available with ConFlat 6" rotatable or nonrotatable flange, additional 2.75" ConFlat port, and a choice of feedthroughs (Fischer, King, DESY, Varian, SHV 10kV (Safeconn)) in different orientations
- No moving parts ensures vibration-free operation for sensitive applications
- Low leakage current provides stable vacuum pressure reading
- Low magnetic field minimizes system interference
- Vacuum processed at >400 °C and pinched off under vacuum to ensure cleanliness and vacuum integrity prior to installation
- Customizable with different high-voltage feedthroughs, body geometries, additional ports, and pumping cell arrangements, and available with optically shielded baffles, external heaters and magnetic shielding to meet your needs
- SEM versions are available with ultralow leakage current and high stability for minimal electrical interference
- Special testing procedures for your specific requirements can be added



Dimensions: millimeters (inches)

VacIon Plus 75 Technical Specifications			
	StarCell	Noble Diode	Diode
Nominal Pumping Speed for Nitrogen*	65 L/s	68 L/s	75 L/s
Operating Life at 1 × 10⁻⁵ mbar	80,000 hrs	50,000 hrs	50,000 hrs
Maximum Starting Pressure	≤5 × 10 ⁻² mbar	≤1 × 10 ⁻³ mbar	≤1 × 10 ⁻³ mbar
Ultimate Pressure	Below 10 ⁻¹¹		
Inlet Flange	DN 100 CF-F (6 in CFF) AISI 304 ESR SST		
Maximum Baking Temperature	Pump without magnets Pump with magnets HV cable	450 °C 350 °C 220 °C	
Weight	19 kg (42 lb)		

* Tested according to ISO/DIS 3556-1-1992. SEM version available on request. Customized design available on request.



VacIon Plus 75 pumping speed versus pressure

Ordering information

Description	Part Number			
Vacion Plus 75 Pumps				
Diode with Ferrite Magnets	9191410			
Diode with Ferrite Magnets and DN 40 CF-F (2.75 in CFF) Port*	9191413			
Diode without Magnets	9191414			
StarCell with Ferrite Magnets	9191440			
StarCell with Ferrite Magnets and DN 40 CF-F (2.75 in CFF) Port*	9191443			
StarCell without Magnets	9191344			
Noble Diode with Ferrite Magnets	9191420			
Noble Diode without Magnets	9191424			
* Side port nonrotatable. Agilent offers these pumps with the SHV 10kV (SAFECONN) feedthro Agilent or your local representative.	ugh option. Please contact			
4UHV Controller				
200 W neg	9299010			
200 W pos	9299011			
IPCMini Controller				
IPCMini, 110/220 V Fischer HV, neg	X3602-64000			
IPCMini, 110/220 V Fischer HV, pos	X3602-64001			
Ion pump controllers (4UHV and IPCMini) are available in multiple configurations. For a complete list of part numbers, please refer to their respective data sheets.				
HV Cables				
HV Cable, 4 m (13 ft), Fischer Controller to Fischer Pump Side, Bakeable, Radiation Resistant, with Interlock	9290705			
HV Cable, 7 m (23 ft), Fischer Controller to Fischer Pump Side, Bakeable, Radiation Resistant, with Interlock	9290707			
HV Cable, 10 m (33 ft), Fischer Controller to Fischer Pump Side, Bakeable, Radiation Resistant, with Interlock	9290708			
HV Cable, 20 m (66 ft), Fischer Controller to Fischer Pump Side, Bakeable, Radiation Resistant, with Interlock	9290709			
Other cable lengths are available on request.				
Replacement Parts				
HV Feedthrough with Interlock	9595125			
Heaters*, 120 V, Input Power 250 W	9190071			
Heaters*, 220 V, Input Power 250 W	9190070			

www.agilent.com/en/ product/vacuum-technologies/ionpumps-controllers/mediumion-pumps/vacion-plus-75-pump

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This information is subject to change without notice.

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