

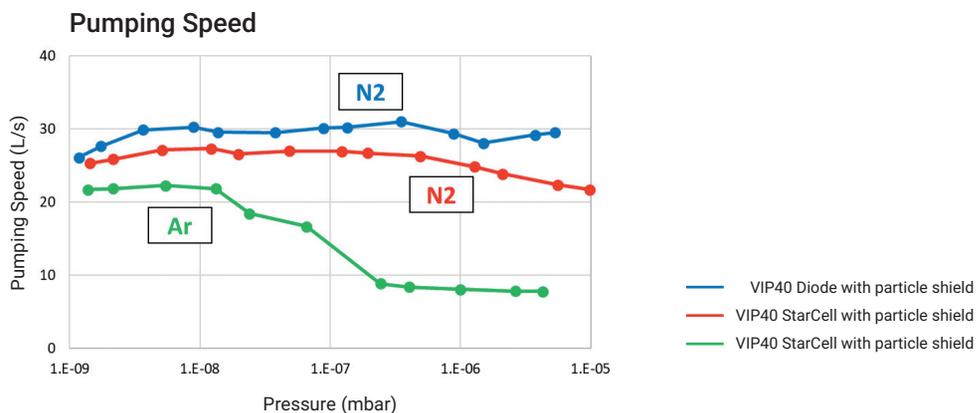
## Vaclon Plus 40 pump with particle shield



The pump is provided with a shield that prevents particles emitted by the ion pump from escaping into the vacuum chamber, as well as blocking the emission of secondary particles.

The shield reduces the gas conductance and can therefore reduce the effective pumping speed. Agilent design is the best in terms of shield efficiency and pumping speed.

Two typical applications, among many others, are high-energy physics (HEP) particle accelerators and scanning electron microscopes (SEM) where UHV is required as well as absence of emission of charged particles from the pump into the chamber.

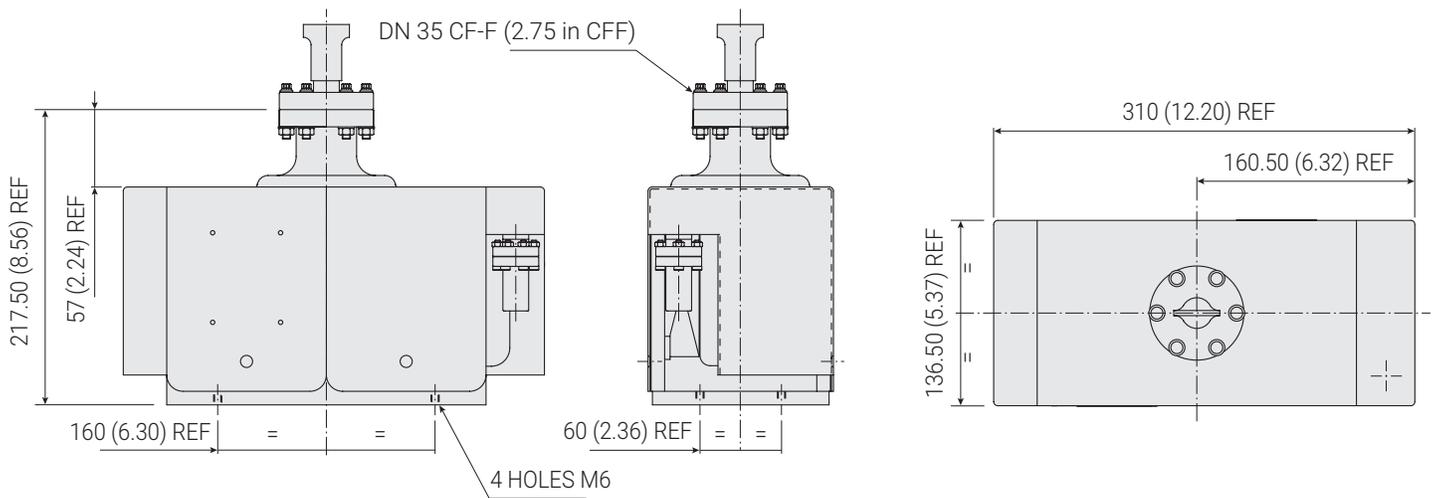


## Technical Specifications

	StarCell	Diode
Nominal pumping speed for nitrogen (*) (L/s)	27	31
Operating life at $1 \times 10^{-6}$ mbar (hours)	80,000	50,000
Maximum starting pressure (mbar)	$\leq 5 \times 10^{-2}$	$\leq 1 \times 10^{-3}$
Ultimate pressure (mbar)	Below $10^{-11}$	
Inlet flange	DN 40 CF-F (2.75 in CFF) AISI 304 ESR SST	
Maximum baking temperature (°C)	Pump without magnets 450 Pump with magnets 350 HV cable 220	
Weight, kg (lb)	17 (37)	

(\*) Tested according to ISO/DIS 3556-1-1992

## Outline Drawings



Dimensions: millimeters [inches]

## Ordering Information

Description	Part Numbers
Diode	9191210M012
StarCell	X3609-64200
Agilent offers these pumps with the SHV 10 kV (SAFECONN) feedthrough option. Please contact Agilent or your local rep.	
<b>4UHV controller</b>	
200 W neg	9299010
200 W pos	9299011
<b>IPCMini controller</b>	
IPCMini, 110/220 V Fischer HV, neg	X3602-64000
IPCMini, 110/220 V Fischer HV, pos	X3602-64001

For more information, please contact your Agilent representative or visit:  
[Ion Pumps & Controllers, Ultra & Extreme High Vacuum - UHV & XHV | Agilent](#)

Description	Part Numbers
<b>HV cables</b>	
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
<b>Replacement parts</b>	
HV pump feedthrough, Fischer, with interlock	9595125
Heaters*, 120 V, input power 250 W	9190071
Heaters*, 220 V, input power 250 W	9190070

\* To order replacement heaters or upgrade existing pumps, contact your local Agilent Vacuum Products representative.

## Related Products

You may be also interested in:

- [IPCMini Ion Pump Controller](#)
- [4UHV Ion Pump Controller](#)
- [Cables for Ion Pumps and Controllers](#)
- [Heaters & Heater Components for Ion Pumps](#)
- [Adapters & Feedthroughs for Ion Pumps](#)

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the Agilent Ion Pumps web page where  
you can chat live with a product expert:  
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