

## Vaclon *Plus* 800 Pump



Agilent expands its Vaclon *Plus* product family portfolio with the introduction of the Vaclon *Plus* 800 L/s ion pump.

The VIP800, with a 8 inch or 10 inch ConFlat inlet flange, can be used for those applications that require the pumping of large volume chambers where stable and ultrahigh vacuum is needed.

To ensure cleanliness, the VIP800 undergoes a complete factory process, including outgassing of the body and internal components in a high-temperature (450°C) vacuum oven. A full automated leak check is executed at the beginning and at the end of the process. To guarantee the pump's specifications, a final electrical check is performed. These processes ensure that the Agilent pump is shipped under ultrahigh vacuum with the highest level of cleanliness available in the ion pump market.

The VIP800 is available in StarCell configuration, and with or without heater to satisfy most common application requests.

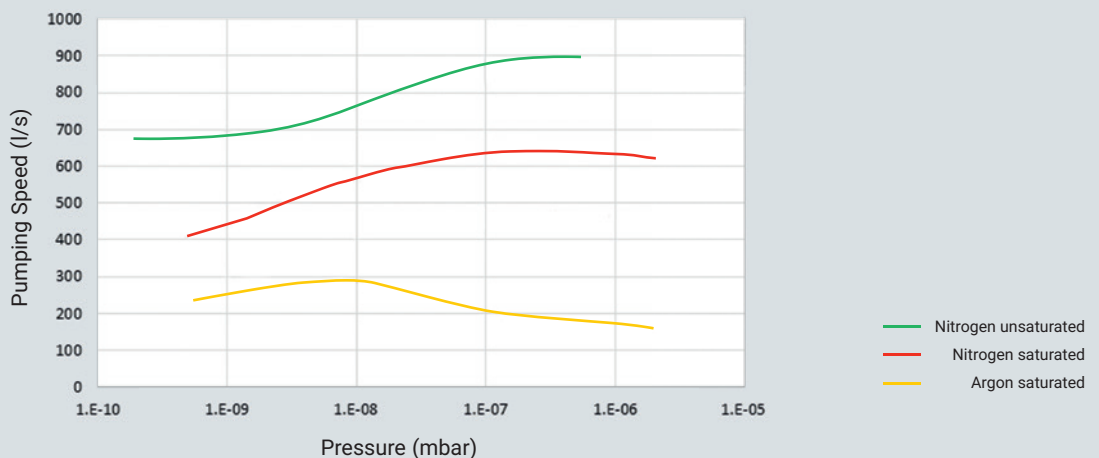
# Vaclon Plus 800 Pump

## Technical Specifications

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	Flange 10"	Flange 8"
Saturated Pumping Speed* for Nitrogen	650 L/s	530 L/s
Unsaturated Pumping Speed* for Nitrogen	910 L/s	685 L/s
Saturated Pumping Speed* for Argon	295 L/s	260 L/s
Pumping Speed* for Hydrogen	1900 L/s	1600 L/s
Operating life @1e-6 mbar	80000 h	
Protect current	150 mA	
Maximum Operating Voltage	-7000 Vdc (+/-10%)	
Maximum Starting Pressure	≤5 x 10 <sup>-2</sup> mbar	
Ultimate Pressure	<1x10 <sup>-11</sup> mbar	
Inlet flange	8 in CFF (NW 150) AISI 304 ESR 10 in CFF (NW 200) AISI 304 ESR	
Element type	StarCell	
Feedthrough style	Fischer	
Max Temperature limit with magnet	350°C	
Max Temperature limit without magnet	450°C	
Recommended maximum baking temperature with Ion pump ON	220°C (HV cable maximum temperature)	
Materials	Body	AISI304 L
	Cathodes	Titanium
	Anodes	AISI 304L
	Magnets	Ferrite (Ceramic 8)
	PolePiece	Iron
Weight without heaters	lbs (kg)	437 (198)
Special versions available	On request	

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

Pumping Speed vs Pressure (Flange CFF 10" version)



## Ordering Information

Pumps	Part Numbers
VIP800 pump with StarCell element, inlet flange 10"	X3607-64200
VIP800 pump with StarCell element, inlet flange 10", with 230 V heater installed	X3607-64201
VIP800 pump with StarCell element, inlet flange 10", with 115 V heater installed	X3607-64202
VIP800 pump with StarCell element, inlet flange 8"	X3607-64203
VIP800 pump with StarCell element, inlet flange 8", with 230 V heater installed	X3607-64204
VIP800 pump with StarCell element, inlet flange 8", with 115 V heater installed	X3607-64205

Double ended and side port versions available on request.

Controller Unit: 4UHV	Part Numbers
200W NEG	9299010
2 x 80W NEG	9299200
2 x 200W NEG	9299020
4 x 80W NEG	9299400
2 x 80W NEG and 1 x 200W NEG	9299210
Cables selection	Part Numbers
Pumps are equipped with standard Fischer high voltage feedthroughs.	
Cable lengths available:	
4 m Fischer cable with interlock (for Fischer feedthrough)	9290705
7 m Fischer cable with interlock (for Fischer feedthrough)	9290707
10 m Fischer cable with interlock (for Fischer feedthrough)	9290708
20 m Fischer cable with interlock (for Fischer feedthrough)	9290709
Replacement Parts	Part Numbers
HV feedthrough	9595125
Pumping element* StarCell	9199030
Heaters**, 115 V, (Input Power 800 W)	X3607-68001
Heaters**, 230 V, (Input Power 800 W)	X3607-68000

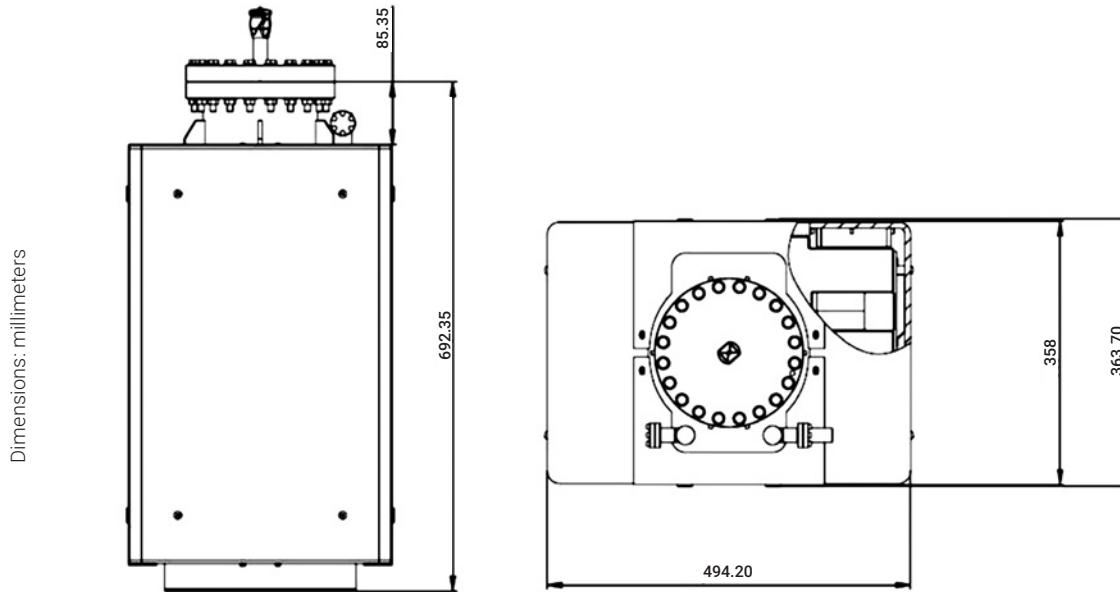
\*Quantity required: 12.

\*\*To order heaters for replacement or upgrading of existing pumps, please contact your local Agilent Vacuum Products representative.

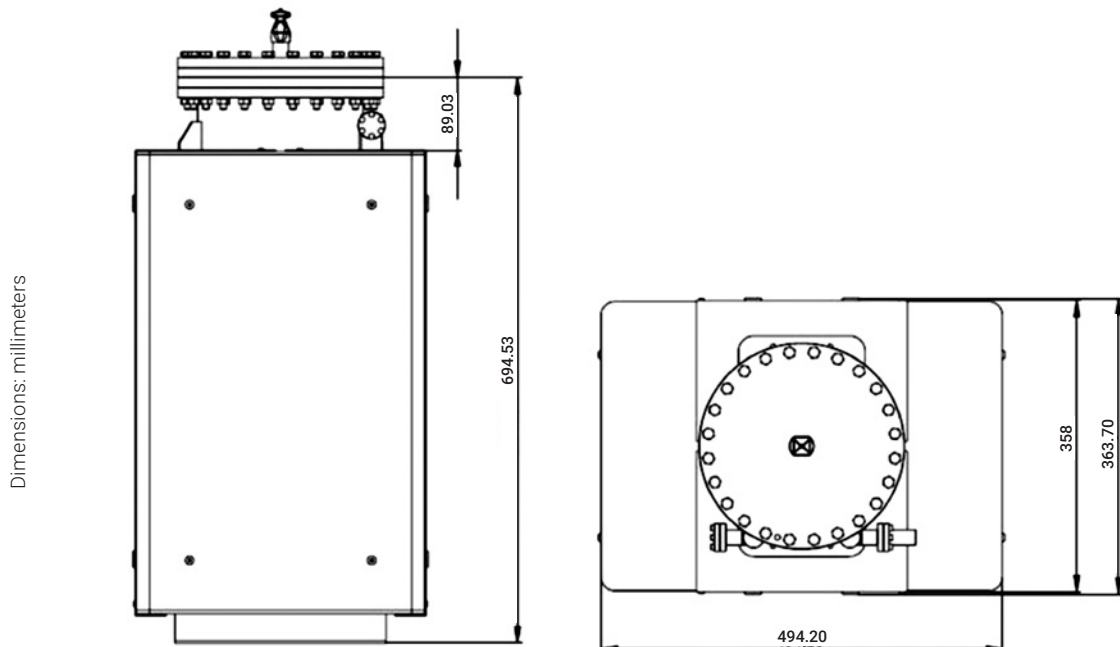
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## Outline Drawings

Version with 8" flange



Version with 10" flange



3D Drawings available for download on [Agilent.com](http://Agilent.com)

For more information please contact  
your Agilent representative, or visit  
**[www.agilent.com/chem/vacuum](http://www.agilent.com/chem/vacuum)**  
where you can chat online with a product expert.



**United States**

Agilent Technologies  
121 Hartwell Avenue, Lexington MA 02421, USA  
Tel: +1 781 861 7200  
Toll free: +1 800 882 7426  
[vpl-customer@agilent.com](mailto:vpl-customer@agilent.com)

**Europe and other countries**

Agilent Technologies Italia SpA  
via F.lli Varian 54, 10040 Leini, (Torino), Italy  
Tel: +39 011 9979 111  
Toll free: 00 800 234 234 00  
[vpt-customer@agilent.com](mailto:vpt-customer@agilent.com)

DE44271.4662731482

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© Agilent Technologies, Inc. 2021  
Published in the USA, March 31, 2021  
5994-3218EN

