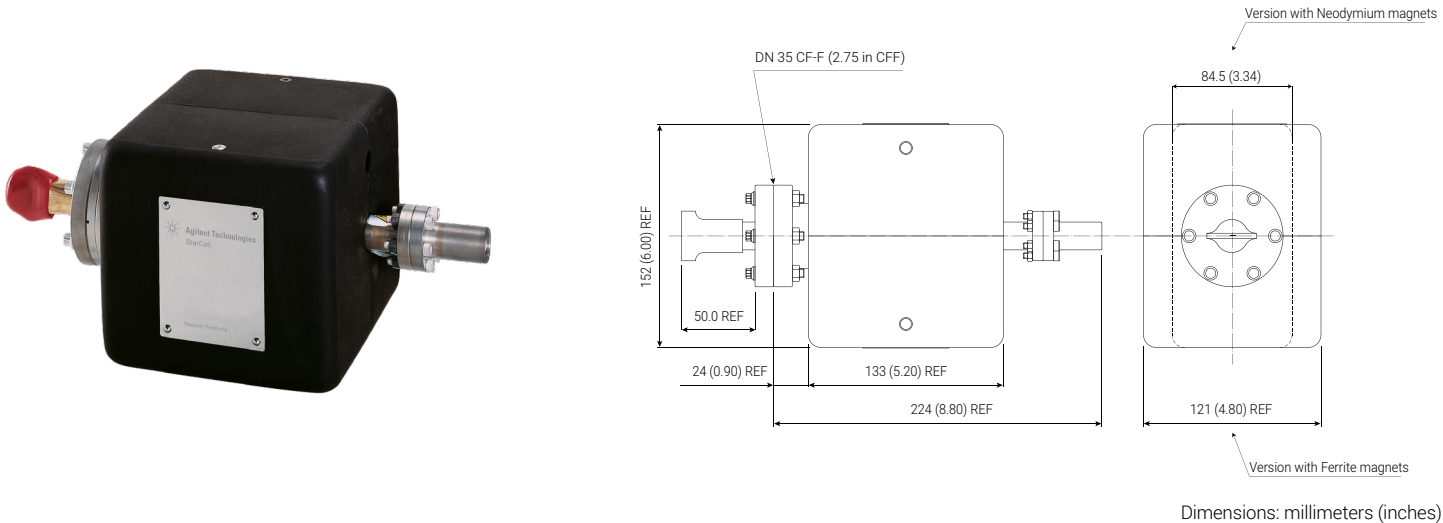


Vaclon Plus 20 pump



Technical Specifications

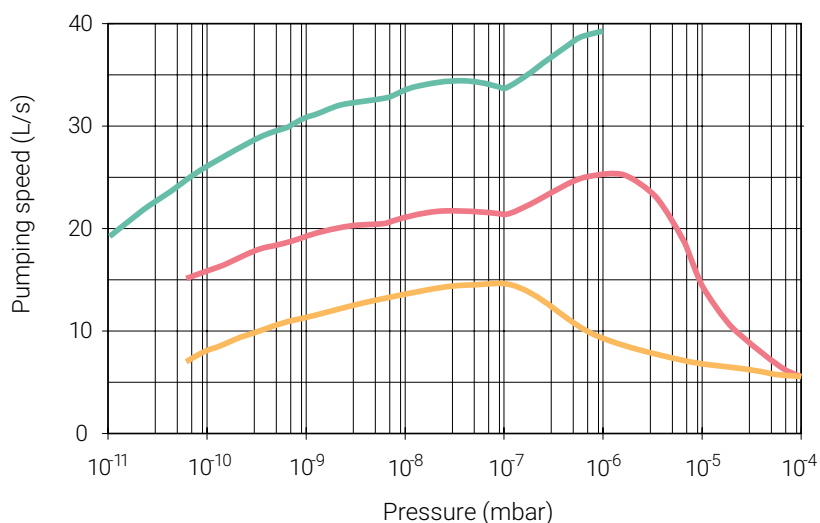
	StarCell	Noble Diode	Diode
Nominal pumping speed for nitrogen (*) (L/s)	20	22	27
Operating life at 1x10 ⁻⁶ mbar (hours)	80,000	50,000	50,000
Maximum starting pressure (mbar)	≤ 5x10 ⁻²	≤ 1x10 ⁻³	≤ 1x10 ⁻³
Ultimate pressure (mbar)	Below 10 ⁻¹¹		
Rotatable Inlet flange	DN 40 CF-F (2.75 in CFF) AISI 304 ESR SST		
Maximum baking temperature (°C)	Pump without magnets	450	
	Pump with magnets	350	
	HV cable	220	
Weight, kg (lb) (with ferrite magnets)	Net: 5,4 (11,9), shipping 11 (24)		
Weight, kg (lb) (with Neodymium magnets)	Net: 4,7 (10,4), shipping 9 (19,9)		

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

SEM pump version and customized designs available.
Contact your local Agilent office for more details.

Vaclon Plus 20 - Pumping speed vs pressure

- Nitrogen unsaturated Diode
- Nitrogen saturated Diode
- Argon saturated StarCell



Ordering Information

Description	Part number
Pumps	
Diode with Ferrite magnets	9191115
Diode without magnets	9191114
StarCell with Ferrite magnets	9191145
StarCell without magnets	9191144
StarCell with Neodymium magnets (slim body)	9191146M018
Noble Diode with Ferrite magnets	9191125
Noble Diode without magnets	9191124

Agilent offers these pumps with the SHV 10 kV (SAFECONN) feedthrough option.

For further information, please contact Agilent or your local rep.

4UHV controller*

200 W neg	9299010
200 W pos	9299011

IPCMini controller*

IPCMini, 100/240 V Fischer HV, neg	X3602-64000
IPCMini, 100/240 V Fischer HV, pos	X3602-64001

*Ion pump controllers (4UHV and IPCMini) are available in multiple configurations.

For a complete list of part numbers, see 4UHV and IPCMini controller sections on Pages 68-71.

Diode, Noble Diode	Positive
StarCell	Negative
Negative or positive? See more on page 70.	

Description	Part number
HV cables	
HV cable, 4 m (13 ft), Fischer controller to Fischer pump side, bakeable, radiation resistant, with interlock	9290705
HV bakeable 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
*For other cable lengths, contact Agilent or your local sales representative.	

Replacement parts

HV pump feedthrough, Fischer, with interlock	9595125
Magnet assembly, Ferrite, for Vaclon Plus 20 Diode pump	9191001
Magnet assembly, Ferrite, for Vaclon Plus 20 Noble Diode pump	9191002
Magnet assembly, Ferrite, for Vaclon Plus 20 StarCell pump	9191004
Vaclon Plus 20 Neodymium magnet assembly	9191006
Heaters*, 120 V, input power 140 W	9191110
Heaters*, 220 V, input power 140 W	9191111

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