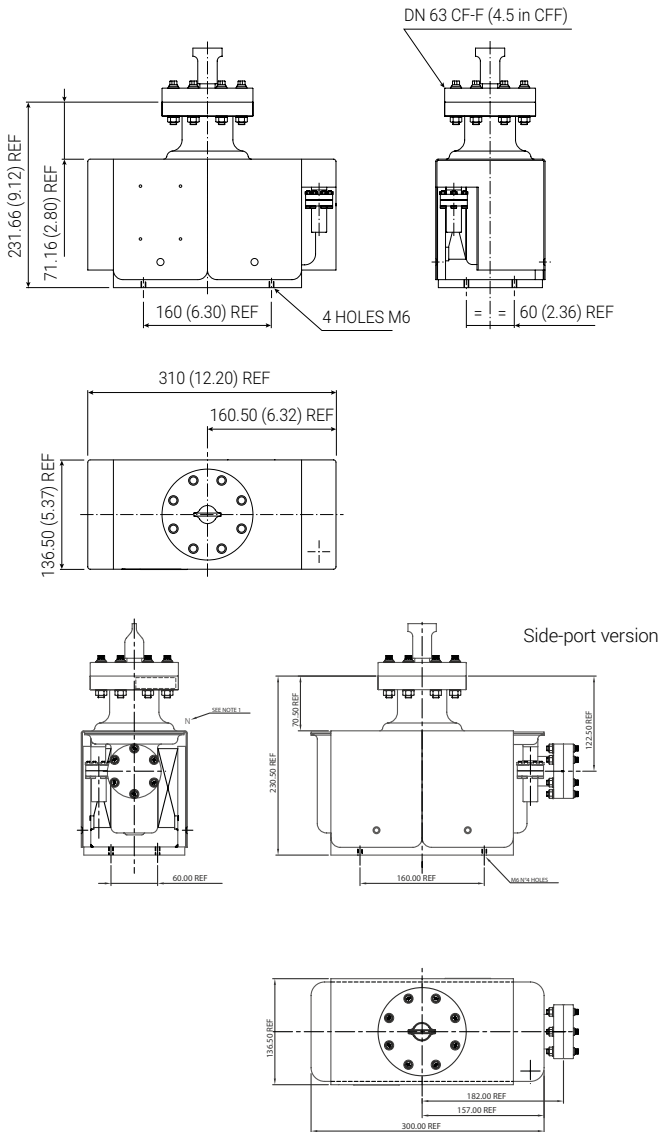


Vaclon Plus 55 pump



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

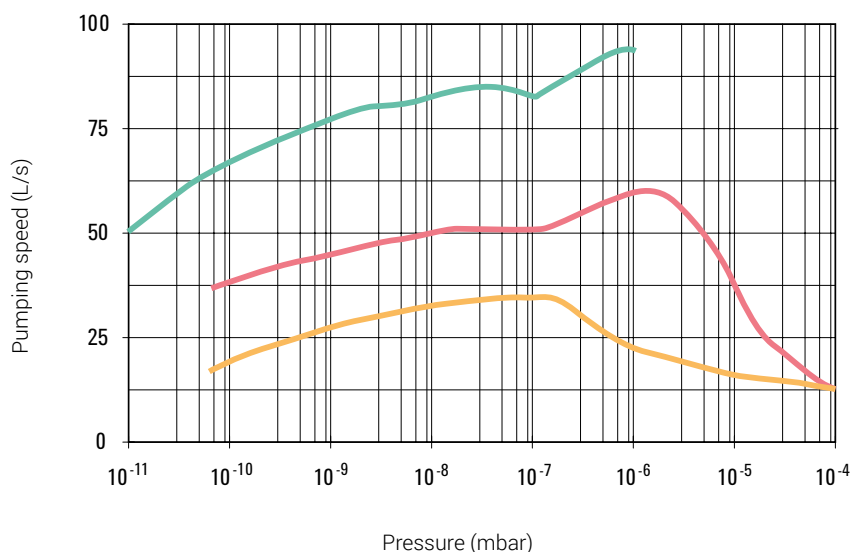
Technical Specifications

|                                                   | StarCell                                 | Noble Diode          | Diode                |
|---------------------------------------------------|------------------------------------------|----------------------|----------------------|
| Nominal pumping speed for nitrogen (*) (L/s)      | 50                                       | 53                   | 60                   |
| Operating life at 1x10 <sup>-6</sup> mbar (hours) | 80,000                                   | 50,000               | 50,000               |
| Maximum starting pressure (mbar)                  | ≤ 5x10 <sup>-2</sup>                     | ≤ 1x10 <sup>-3</sup> | ≤ 1x10 <sup>-3</sup> |
| Ultimate pressure (mbar)                          | Below 10 <sup>-11</sup>                  |                      |                      |
| Inlet flange                                      | DN 63 CF-F (4.5 in CFF) AISI 304 ESR SST |                      |                      |
| Maximum baking temperature (°C)                   | Pump without magnets                     | 450                  |                      |
|                                                   | Pump with magnets                        | 350                  |                      |
|                                                   | HV cable                                 | 220                  |                      |
| Weight, kg (lb)                                   | Net 18 (39), Shipping 22 (49)            |                      |                      |

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

## Vaclon Plus 55 - Pumping speed vs pressure

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



## Ordering Information

| Description                                                                                                               | Part number |
|---------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Pumps</b>                                                                                                              |             |
| Diode with Ferrite magnets                                                                                                | 9191310     |
| Diode with additional DN 40 CF-F (2.75 in CFF) port*                                                                      | 9191313     |
| Diode without magnets                                                                                                     | 9191314     |
| StarCell with ferrite magnets                                                                                             | 9191340     |
| StarCell with additional DN 40 CF-F (2.75 in CFF) port*                                                                   | 9191343     |
| StarCell without magnets                                                                                                  | 9191344     |
| Noble Diode with Ferrite magnets                                                                                          | 9191320     |
| Noble Diode without magnets                                                                                               | 9191324     |
| Agilent offers these pumps with the SHV 10 kV (SAFECONN) feedthrough option.<br>Please contact Agilent or your local rep. |             |
| <b>4UHV controller**</b>                                                                                                  |             |
| 200 W neg                                                                                                                 | 9299010     |
| 200 W pos                                                                                                                 | 9299011     |
| <b>IPCMini controller**</b>                                                                                               |             |
| IPCMini, 100/240 V Fischer HV, neg                                                                                        | X3602-64000 |
| IPCMini, 100/240 V Fischer HV, pos                                                                                        | X3602-64001 |

\* Side port non rotatable.

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

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

| Description                                                                                                    | Part number |
|----------------------------------------------------------------------------------------------------------------|-------------|
| <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.

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