

Vacuum

- [Vacuum components](#)

Vacuum components

Vacuum pump/controller/H.V. cable

Company: Agilent Technologies

- Typ: VACION PLUS 40 STARCELL PUMP BASIC PUMP(<http://www.agilent.com/en-us/products/vacuum-technologies/high-vacuum-pumps/ion-pumps/vacion-plus-40>)
- Catalog:
agilent_catalog_06_ion_section_120.pdf
- Manual:
vacion_plus_40-55-75_pumps_user_manual.pdf
- Heater for Medium VIP Instructions:
heater_for_medium_vip_instructions.pdf
- Auto Cad:
<http://www.agilent.com/cs/common/plusimages/Vaclon-Plus-40-Ion-Pump-outline-drawing.png>
- Other informations: "Die einzigen Einflussgrößen auf die Stabilität des Druckes sind Gaslast und Ausgasung (eigentlich auch zur Gaslast gehörend)."

Vacuum sensor

Vacuum valves

Gate valve

Angle valve

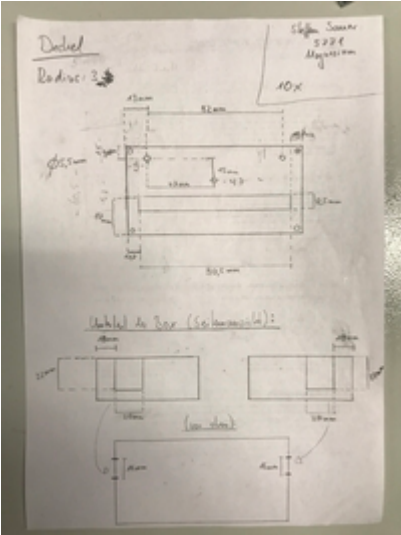
Other vacuum CF-components

Vacuum isolator

- Test report scan copy for vacuum compatible isolators:
test_report_scan_copy_for_vacuum_compatible_isolators.pdf

Bake out

- We use the temperature monitoring design, made by E. Wodey, for the out of loop measurements during the out baking.
 - Talk by E. Wodey for the explanation of the monitoring system:
2016-08_geoq_ctp_ew.pdf



- Box-design made by S. Sauer:

Bake out list

Item	Maximum temperature
Mounting for the spacer	
Zerodur rods	
Viton balls	
Glas balls	
Heat shields	
Screws from the mounting	
Windows (inside and outside the vacuumchamber)	
Window holder	
ULE rings	
Vacuum chamber	
CF Cupper rings	
CF Flanschkit	
IGP	
IGP cable	
Vacuum pressure sensor	
Vacuum pressure sensor cable	
Angle valve	
Sub-D Socket	
CF-Kreuz	
Indium wire	
Indium foil	

Item	Maximum temperature
Capton wires	
Crimp pins	
Peltier-elements	
NTC Sensors	
Faraday rotator	
Glue from faraday rotator	
ULE Spacer	
Mirrors	

Bake out Protocol

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https://iqwiki.iqo.uni-hannover.de/doku.php?id=groups:mg:project_ptb-cavity:vacuum&rev=1484750476

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