

# Vacuum

## 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>)
- Datasheet:  
agilent\_catalog\_06\_ion\_section\_120.pdf
- Manual:  
vacion\_plus\_40-55-75\_pumps\_user\_manual.pdf
- Auto Cad:
- 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

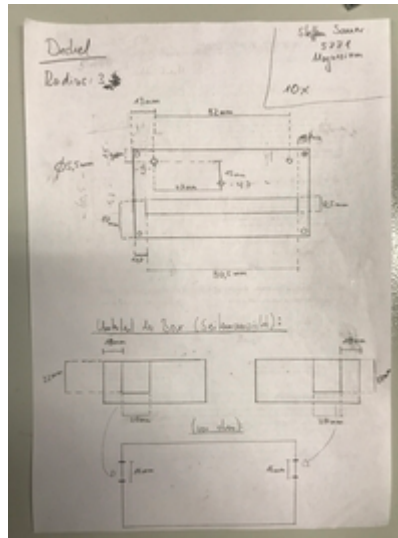
- Test report scan copy for vacuum compatible isolators:  
test\_report\_scan\_copy\_for\_vacuum\_compatible\_isolators.pdf

### 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                                    |                     |
| Capton wires                                   |                     |
| Crimp pins                                     |                     |
| Peltier-elements                               |                     |

| Item                      | Maximum temperature |
|---------------------------|---------------------|
| NTC Sensors               |                     |
| Faraday rotator           |                     |
| Glue from faraday rotator |                     |
| ULE Spacer                |                     |
| Mirrors                   |                     |

Bake out Protocol

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