

Theory 5

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PDA EU

Freeze – Drying In Practice

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Osterode am Harz, Germany



With almost 15 years of experience Pharmbiocon GmbH in Bad Endbach is a reliable partner of the pharmaceutical and medical devices industry.

The company can draw from its resource pool of technical engineers (biotechnology, pharmatechnology, life science technology, process engineering and mechanical engineering) and natural scientists (biologists, chemists).

Main business areas are project leads, engineering, management and consulting services for international projects, planning and surveillance of technical transfer projects in fill / finish facilities, GMP quality assurance as well as engineering of complex processes.

Furthermore, Pharmbiocon GmbH can be contracted as a general planer. The benefit for the customer will be the pooling of the ordering process with a single person of contact on site, combined with high flexibility and a reduced risk of down time.

In addition, we offer a fully equipped bio safety level II laboratory to our costumers. A pilot plant lyophilisation facility can be use here to develop or optimize your processes or perform failure mode analyses (production galenics).

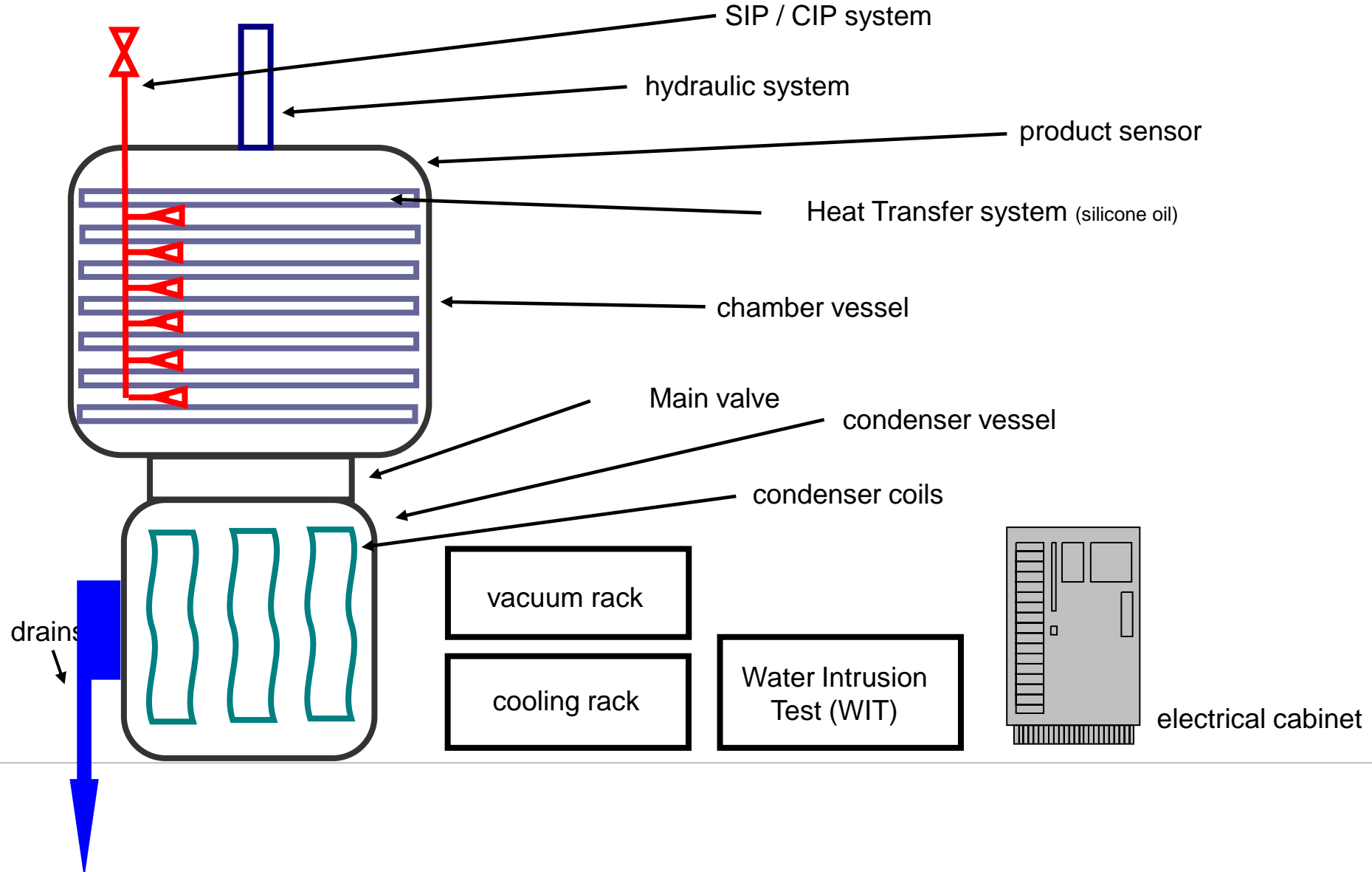


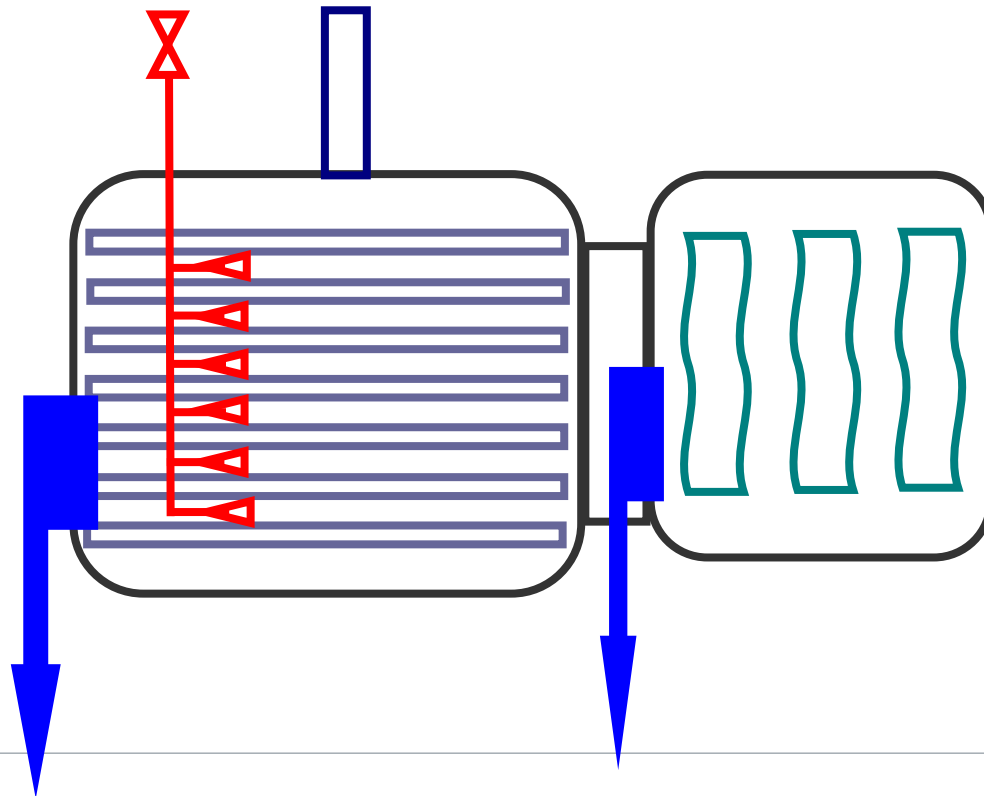
Pharmbiocon
Life Science Engineering

Theory 5:

Construction of freeze dryers

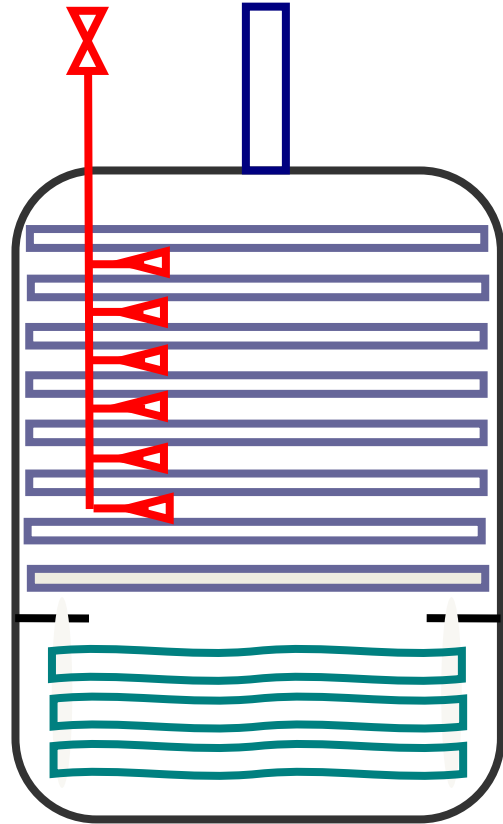
- construction of freeze dryers
- systems of freeze dryers
- different types of freeze dryers
- existing lines of freeze dryers
- parameters of freeze dryers





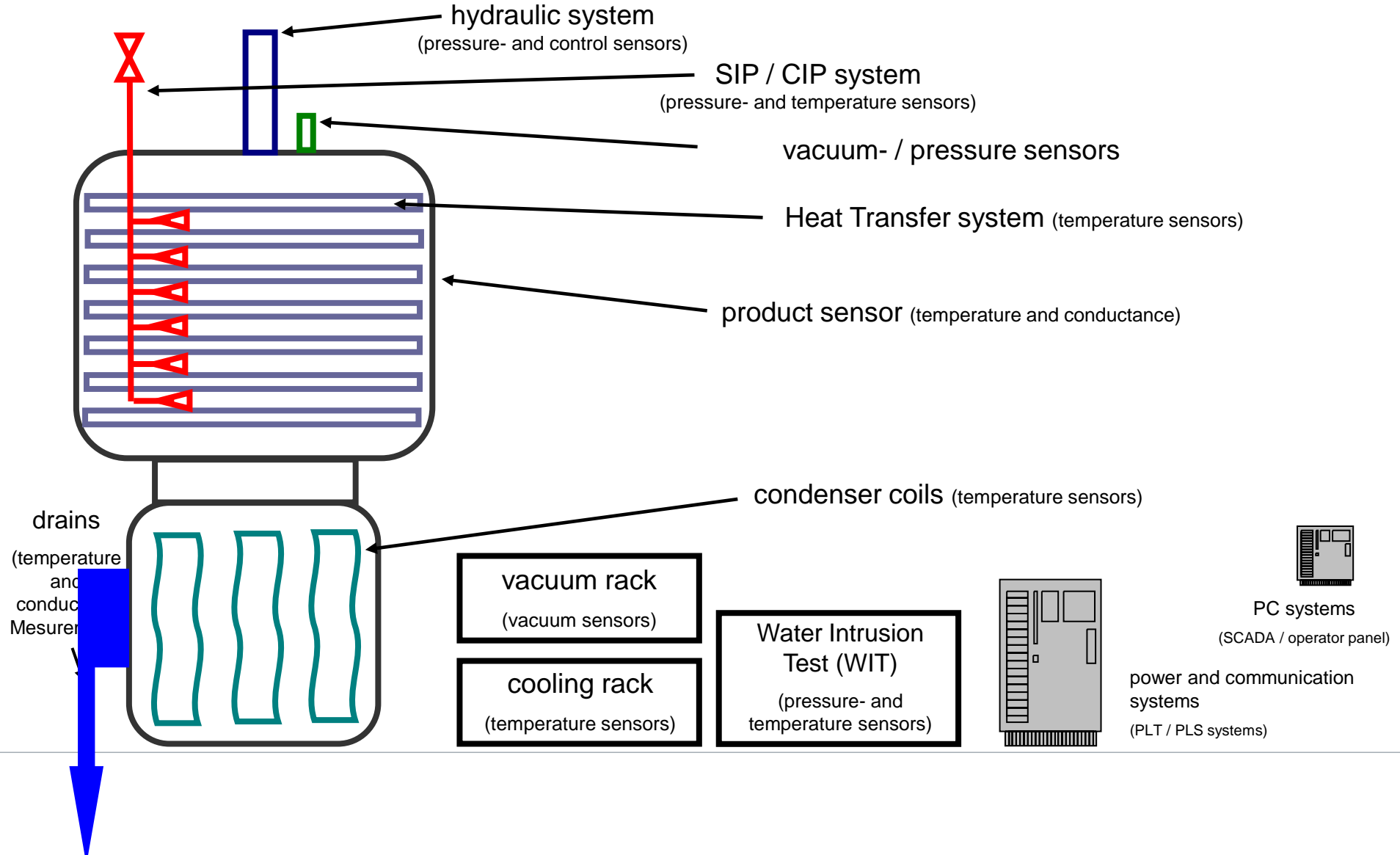
Side mounting of ice condenser:

- installation on one level
- potential risks for are the Radiation effects of the condenser to the vials which stand nearby the Main Valve

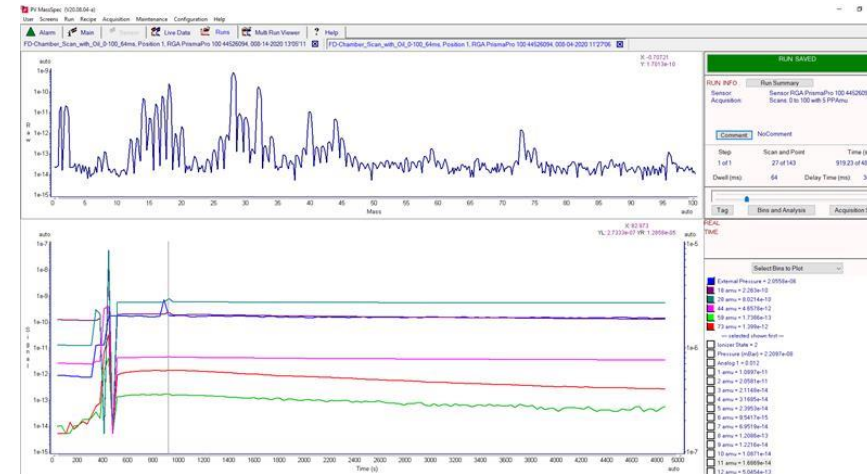


Compact design / one-chamber design:

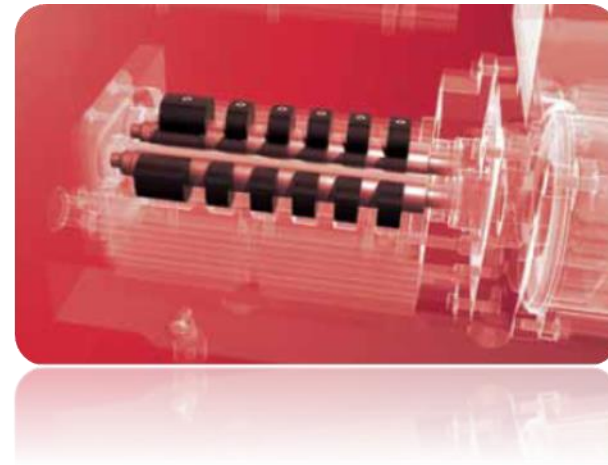
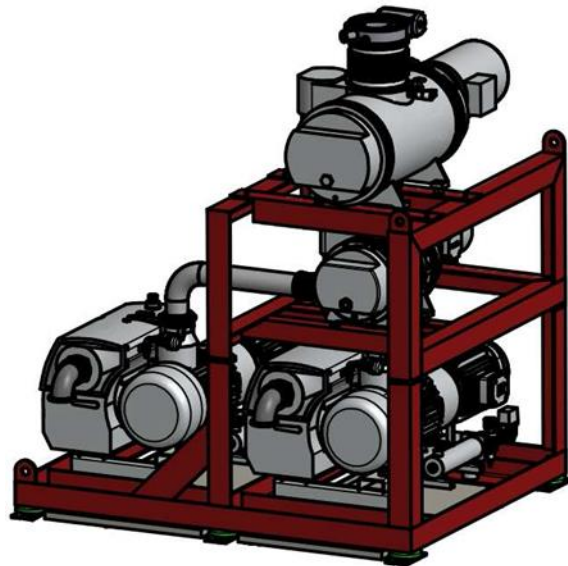
- installation on one level
- compact design
- The Main Valve is mounted on the Shelf Stack

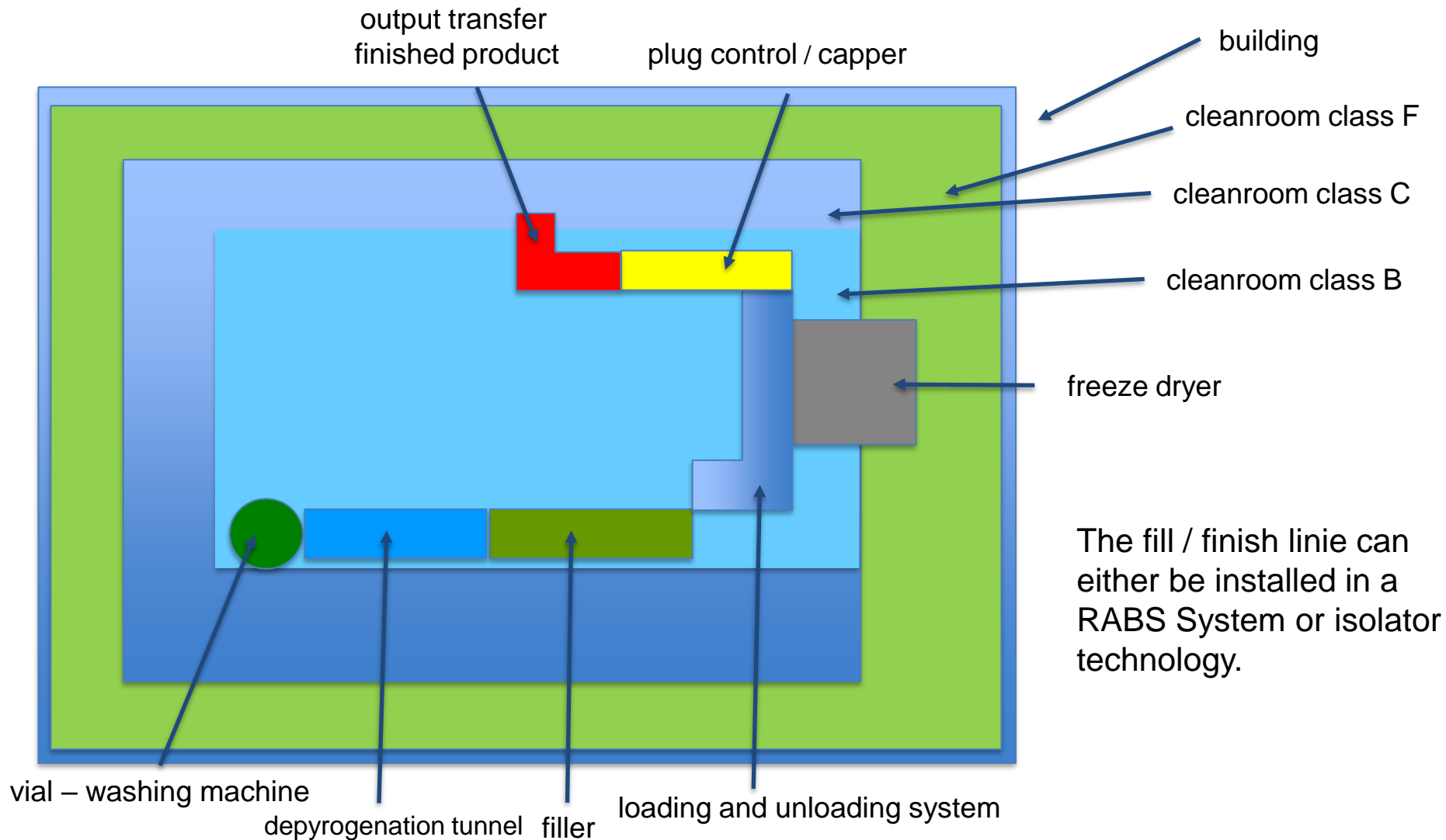


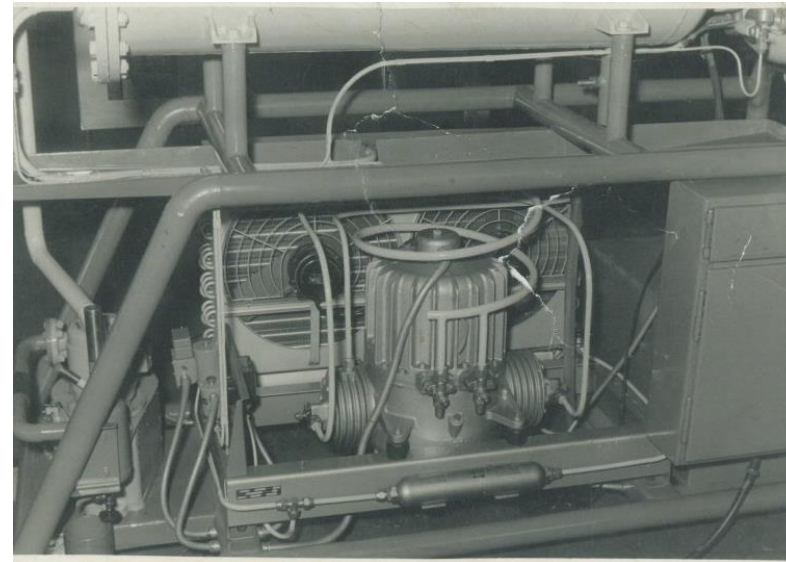
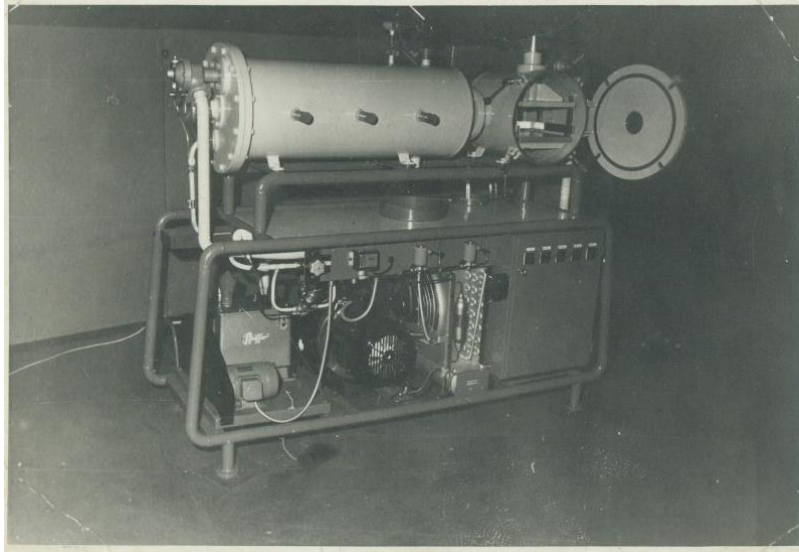
Special Sensor Mass spectrometer Sensors for silicone oil detection mounted in the Main Valve



vacuum pump units







Pharmbiocon

Life Science Engineering

RESEARCH & DEVELOPMENT

DESIGN

INSTALLATION

COMMISSIONING

FUNCTIONALITY

PERFORMANCE